1035 FULTON STREET

BROOKLYN, NEW YORK

Remedial Action Report

NYC VCP Project Number: 14CVCP157K

OER Project Number: 13EH-N380K

Prepared for:

Fulton Hill Corner LLC

936 Fulton Street

Brooklyn, NY 11238

Prepared by:

EBC

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MAY 2016

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LIST OF ACRONYMS

Acronym	Definition
CAMP	Community Air Monitoring Plan
DER-10	NYS DEC Division of Environmental Remediation Technical Guidance Manual 10
EC	Engineering Control
HASP	Health and Safety Plan
IC	Institutional Control
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
ORC	Oxygen Release Compound
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
SCG	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

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CERTIFICATION

I, Ariel Czemerinksi, certify the following:

- I am currently a registered professional engineer licensed by the State of New York.
- I performed professional engineering services and had primary direct responsibility for implementation of the remedial program for the redevelopment project located at 1035 Fulton Street, Brooklyn, NY, site number 14CVCP157K.
- I have reviewed this document, to which my signature and seal are affixed.
- Engineering Controls implemented during this remedial action were designed by me or a person under my direct supervision and achieve the goals established in the Remedial Action Work Plan for this site.
- The Engineering Controls constructed during this remedial action were professionally observed by me or by a person under my direct supervision and (1) are consistent with the Engineering Control design established in the Remedial action Work Plan; (2) are accurately reflected in the text and drawings for as-built design reported in this Remedial Action Report; and (3) will achieve the goal of the Remedial Action Work Plan to prevent soil vapor intrusion and provide protection of public health for the occupants of the building.
- The OER-approved Remedial Action Work Plan dated July 2013 and Stipulations in a letter dated March 12, 2014, were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Name Ariel Czemerinski

PE License Number 076508

Signature

Date 5/13/16

STATE OF NEW YORK
ARIEL CZEMERINSKI
076508
LICENSED PROFESSIONAL ENGINEER

I, Kevin Brussee, certify the following:

- I am a Qualified Environmental Professional.
- I had primary direct responsibility for implementation of the remedial program for the redevelopment project located at 1035 Fulton Street, Brooklyn, NY, site number 14CVCP157K.
- The OER-approved Remedial Action Work Plan dated July 2013 and Stipulations in a letter dated March 12, 2014, were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

QEP Name Kevin Brussee

QEP Signature

Date 5/13/2016

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EXECUTIVE SUMMARY

Fulton Hill Corner, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 1035 Fulton Street in Bedford-Stuyvesant section of Brooklyn, New York. A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A remedial action was performed pursuant to an OER-approved RAWP in a manner that has rendered the Site protective of public health and the environment consistent with the proposed use of the property. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

Site Location and Background

The Site is located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lot 12 (formerly 12, 13, 15, and 16) on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,247-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 7501 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2.

Prior to redevelopment, the Site was undeveloped, vacant and uncapped.

Summary of Redevelopment Plan

A new 7-story mixed use building with a full cellar level and a concrete capped rear courtyard has been constructed at the Site. Layout of the site redevelopment is presented in Figure 3. The current zoning designation for the Site is R7A with a C2-4 commercial overlay. R7A is a contextual district that allows residential and community facility buildings. The use is consistent with existing zoning for the property.

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The new 7-story mixed use building and cellar occupies 85% of the Site, leaving a concrete capped rear courtyard behind the building. The cellar consists of commercial space, and recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor consists of commercial and residential space, and a residential lobby and bicycle storage room. The second through seventh floors are residential apartments.

The top of the concrete cellar slab was installed a depth of approximately 10 feet below sidewalk level, which required excavation of the majority of the Site to a depth of approximately 11 feet below grade. Additional excavation to a depth of approximately 15 feet was performed for an elevator pit. A total of approximately 2,044.64 tons of non-hazardous historic fill material and 882.50 tons of clean soil was excavated for the new building and from the rear yard.

Summary of Surrounding Properties

The area surrounding the Site consists of a mix of residential and commercial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	Block 1992, Lot 17 (99 Downing Street) – Developed with a multi-story residential building.
South – Opposite side of Fulton Street	Block 2015, Lots 21, 22, and 23 (1004 through 1008 Fulton Street) – Lots 21 and 22 are developed with multi-story mixed use residential/commercial buildings. Lot 23 is a 19.5 ft by 102 ft parking lot.
East – Adjacent property	Block 1992, Lot 11 (1039 Fulton Street) – Developed with a multi-story residential building.
West – Opposite side of Downing Street	Block 1991, Lot 1 (1029 Fulton Street) – A 2,190 square foot undeveloped uncapped lot.

Summary of Past Uses of Site and Environmental Findings

EBC was able to establish a site history for the property dating back to 1887. From approximately 1887 to 1973, the south portion of the Site was developed with a three-story store and the northwest portion of the Site was occupied by a two-story store/residential dwelling. Commercial tenants including a furniture dealer, a restaurant and a grocery store occupied the

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Site in the period between 1928 to 1960. The Site remained vacant after building demolition in 1973.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 5 ft below grade.

Summary of the Work Performed under the Remedial Investigation

Fulton Hill Corner LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Groundwater samples were not obtained during this investigation. Several attempts were made to collect groundwater samples across the site, drilling activities were terminated at depths ranging from 60 to 65 feet below grade. The groundwater table was not encountered; and
4. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 75 feet.
2. Depth to bedrock is at the Site is greater than 100 feet.
3. The stratigraphy of the Site, from the surface down, consists of 5 feet of historic fill underlain by native brown silty sand.
4. Soil/fill samples collected during the RI showed that VOCs were not detected except for low levels of naphthalene (46 ppb) in one of thirteen soil samples. Napthathalene concentrations were well below the Unrestricted Use SCOs. Seven SVOCs including benz(a)anthracene (max. of 6,900 µg/Kg), benzo(a)pyrene (max. of 5,900 µg/Kg), benzo(b)fluoranthene (max. of 7,500 µg/Kg), benzo(k)fluoranthene (max. of 2,800 µg/Kg), chrysene (max. of 7,300 µg/Kg), dibenz(a,h)anthracene (840 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,600 µg/Kg) were detected above their respective

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Restricted Residential Use SCOs within three of the six shallow samples. The SVOCs detected above Track 2 Restricted Residential Use SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Five pesticides, 4,4'-DDD (8.4 µg/Kg), 4,4'-DDE (max. of 14 µg/Kg), 4,4'-DDT (max. of 230 µg/Kg), aldrin (6.4 µg/Kg) and chlordane (max. of 170 µg/Kg) were detected above Unrestricted Use SCOs in four of the six shallow samples collected. All pesticide concentrations were well below Track 2 Restricted Residential Use SCOs. PCBs were not detected in any soil sample. Four metals, including chromium (max. of 35 µg/Kg), lead (max. of 513 µg/Kg), mercury (max. of 1.61 µg/Kg) and zinc (max. of 374 µg/Kg) exceeded Track 1 Unrestricted Use SCOs in all six shallow soil samples. Of these metals, lead and mercury also exceeded Track 2 Restricted Residential Use SCOs in three of the six samples. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Track 1 Unrestricted Use SCOs within any of the six deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

5. Soil vapor samples collected during the RI showed chlorinated and petroleum VOCs at low concentrations. Tetrachloroethylene (PCE) was detected in all four soil vapor samples at a maximum concentration of 3.18 $\mu g/m^3$ and carbon tetrachloride was detected in all four samples at a maximum concentration of 0.314 $\mu g/m^3$. Trichloroethene (TCE) and 1,1,1-TCA were not detected in any of the four samples. The PCE and carbon tetrachloride concentrations are well below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from 39 $\mu g/m^3$ to 94 $\mu g/m^3$. Overall, the highest reported concentrations were for acetone (234 $\mu g/m^3$) and ethanol (175 $\mu g/m^3$).

Summary of the Remedial Action

The remedial action achieved protection of public health and the environment for the intended use of the property. The remedial action achieved all of the remedial action objectives established for the project and addressed applicable standards, criterion, and guidance; was effective in both the short-term and long-term and reduced mobility, toxicity and volume of contaminants; was cost effective and implementable; and used standards methods that are well

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established in the industry.

A summary of the milestones achieved in the Remedial Action is as follows: A Pre-Application Meeting was held on January 24, 2013. A Remedial Investigation (RI) was performed in May of 2013 and a RI Report dated July 15, 2013 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated July 15, 2013 was prepared and released with a Fact Sheet on July 15, 2013, for a 30-day public comment period. The RAWP with a Stipulation List dated August 5, 2013, was approved by the New York City Office of Environmental Remediation (OER) on September 11, 2013. A pre-construction meeting was held on February 18, 2014. A revised Stipulation List dated March 12, 2014, was approved by OER and remedial action began in May of 2014 and completed in May of 2015.

The remedial action consisted of the following tasks:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan;
2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Established Track 4 Site-Specific Soil Cleanup Objectives (SCOs). Excavated soil/fill in excess of Track 4 Site-Specific SCOs from within building footprint and rear courtyard. Collected and analyzed end-point samples to determine the performance of the remedy with respect to attainment of Track 4 Site-Specific SCOs.
4. Excavated 2,044.64 tons of non-hazardous historic fill material and transported to Clean Earth of Philadelphia, and excavated 882.50 tons of clean soil and transported to P. Park NJ LLC located in Prospect Park, NJ. The majority of the Site was excavated to a depth of approximately 11 feet for the new building's cellar level. All historic fill material was excavated from the rear courtyard;
5. As part of development, installed a vapor barrier system beneath the building slab and behind foundation walls. The vapor barrier consists of Raven Industries' VaporBlock Plus 20, a seven-layer co-extruded 20 mil vapor barrier made from polyethylene and EVOH resins. The vapor barrier extends throughout the entire area of the building and encapsulates the cellar. All vapor barrier seams, penetrations, and repairs were sealed

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utilizing the tape method, in accordance with to the manufacturer's installation instructions;

6. Constructed an engineered composite cover consisting of the building's 4-inch thick concrete slab and 6-inch sub-base consisting of 3/4" RCA, and a 4-inch thick concrete slab underlain by 3/4" RCA in the rear courtyard to prevent human exposure to residual soil/fill remaining under the Site;;
7. Imported 20 truck loads (approximately 700 tons) of 3/4 inch crushed concrete (RCA) from Evergreen Recycling of Corona, Inc.;
8. Transported and disposed off-Site of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Collected, sampled and analyzed samples representative of excavated media as required by disposal facilities. Appropriately segregated excavated media on Site;
9. Screened excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID;
10. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations;
11. Performed all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations; and
12. Submitted a RAR that: certifies that the remedial requirements have been achieved; defines the Site boundaries; and describes the remedial activities including any changes from the RAWP;
13. Submission of an approved Site Management Plan (SMP) in the RAR for long-term management of soil and soil vapor, including plans for operation, maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
14. Continued registration of the property as an E-Designated property at the NYC Department of Buildings.

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REMEDIAL ACTION REPORT

1.0 SITE BACKGROUND

Fulton Hill Corner LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York. The boundary of the property subject to this Remedial Action is shown in Figure 2 and includes, in its entirety, Brooklyn Block 1992 and Lot 12 (formerly lots 12, 13, 15 and 16). The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 Site Location and Prior Usage

The Site is located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lot 12 (formerly 12, 13, 15, and 16) on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,247-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 7501 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2.

Prior to redevelopment, the Site was undeveloped, vacant and uncapped.

1.2 Summary of Redevelopment Plan

A new 7-story mixed use building with a full cellar level and a concrete capped rear courtyard has been constructed at the Site. Layout of the site redevelopment is presented in Figure 3. The current zoning designation for the Site is R7A with a C2-4 commercial overlay. R7A is a contextual district that allows residential and community facility buildings. The use is consistent with existing zoning for the property.

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The new 7-story mixed use building and cellar occupies 85% of the Site, leaving a concrete capped rear courtyard behind the building. The cellar consists of commercial space, and recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor consists of commercial and residential space, and a residential lobby and bicycle storage room. The second through seventh floors are residential apartments.

The top of the concrete cellar slab was installed at a depth of approximately 10 feet below sidewalk level, which required excavation of the majority of the Site to a depth of approximately 11 feet below grade. Additional excavation to a depth of approximately 15 feet was performed for an elevator pit. A total of approximately 2,044.64 tons of non-hazardous historic fill material and 882.50 tons of clean soil was excavated for the new building and from the rear yard.

1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and commercial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	Block 1992, Lot 17 (99 Downing Street) – Developed with a multi-story residential building.
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East – Adjacent property	Block 1992, Lot 11 (1039 Fulton Street) – Developed with a multi-story residential building.
West – Opposite side of Downing Street	Block 1991, Lot 1 (1029 Fulton Street) – A 2,190 square foot undeveloped uncapped lot.

1.4 Summary of Past Uses of Site and Environmental Findings

EBC was able to establish a site history for the property dating back to 1887. From approximately 1887 to 1973, the south portion of the Site was developed with a 3-story store and the northwest portion of the Site was occupied by a 2-story store/residential dwelling. Commercial tenants including a furniture dealer, a restaurant and a grocery store occupied the

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Site in the period between 1928 to 1960. The Site remained vacant after building demolition in 1973.

The AOCs identified for this Site include:

- Historic fill layer is present at the Site from grade to depths as great as 5 ft below grade.

1.5 Remedial Investigation

A remedial investigation was performed and the results are documented in a document called "*Remedial Investigation Report, 1035 Fulton Street*", dated June 2013 (Appendix A).

1.5.1 Summary of the Work Performed under the Remedial Investigation

Fulton Hill Corner LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Groundwater samples were not obtained during this investigation. Several attempts were made to collect groundwater samples across the site, drilling activities were terminated at depths ranging from 60 to 65 feet below grade. The groundwater table was not encountered; and
4. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

1.5.2 Summary of Environmental Findings

1. Elevation of the property is approximately 75 feet.
2. Depth to bedrock is at the Site is greater than 100 feet.
3. The stratigraphy of the Site, from the surface down, consists of 5 feet of historic fill underlain by native brown silty sand.
4. Soil/fill samples collected during the RI showed that VOCs were not detected except for low levels of naphthalene (46 ppb) in one of thirteen soil samples. Napthathalene concentrations were well below the Unrestricted Use SCOs. Seven SVOCs including

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benz(a)anthracene (max. of 6,900 µg/Kg), benzo(a)pyrene (max. of 5,900 µg/Kg), benzo(b)fluoranthene (max. of 7,500 µg/Kg), benzo(k)fluoranthene (max. of 2,800 µg/Kg), chrysene (max. of 7,300 µg/Kg), dibenz(a,h)anthracene (840 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,600 µg/Kg) were detected above their respective Restricted Residential Use SCOs within three of the six shallow samples. The SVOCs detected above Track 2 Restricted Residential Use SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Five pesticides, 4,4'-DDD (8.4 µg/Kg), 4,4'-DDE (max. of 14 µg/Kg), 4,4'-DDT (max. of 230 µg/Kg), aldrin (6.4 µg/Kg) and chlordane (max. of 170 µg/Kg) were detected above Unrestricted Use SCOs in four of the six shallow samples collected. All pesticide concentrations were well below Track 2 Restricted Residential Use SCOs. PCBs were not detected in any soil sample. Four metals, including chromium (max. of 35 µg/Kg), lead (max. of 513 µg/Kg), mercury (max. of 1.61 µg/Kg) and zinc (max. of 374 µg/Kg) exceeded Track 1 Unrestricted Use SCOs in all six shallow soil samples. Of these metals, lead and mercury also exceeded Track 2 Restricted Residential Use SCOs in three of the six samples. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Track 1 Unrestricted Use SCOs within any of the six deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

5. Soil vapor samples collected during the RI showed chlorinated and petroleum VOCs at low concentrations. Tetrachloroethylene (PCE) was detected in all four soil vapor samples at a maximum concentration of 3.18 $\mu g/m^3$ and carbon tetrachloride was detected in all four samples at a maximum concentration of 0.314 $\mu g/m^3$. Trichloroethene (TCE) and 1,1,1-TCA were not detected in any of the four samples. The PCE and carbon tetrachloride concentrations are well below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from 39 $\mu g/m^3$ to 94 $\mu g/m^3$. Overall, the highest reported concentrations were for acetone (234 $\mu g/m^3$) and ethanol (175 $\mu g/m^3$).

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For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR (Appendix A) and the RAWP (Appendix B), disposal of significant amounts of hazardous waste was not suspected at this Site.

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2.0 DESCRIPTION OF REMEDIAL ACTIONS

The remedial action was performed in accordance with an OER approved Remedial Action Work Plan (Appendix B) and achieved the remedial action objectives established for the project. The remedial action was evaluated in an alternatives analysis and was determined to be protective of human health and the environment, compliant with standards, criteria, and guidelines (SCGs), effective in the short-term, effective in the long-term, capable of attaining appropriate levels of reduction of toxicity, mobility, or volume of contaminated material, implementable, cost effective, acceptable to the community, consistent with land uses, and sustainable.

A summary of the milestones achieved in the Remedial Action is as follows: A Pre-Application Meeting was held on January 24, 2013. A Remedial Investigation (RI) was performed in May of 2013 and a RI Report dated July 15, 2013 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated July 15, 2013 was prepared and released with a Fact Sheet on July 15, 2013, for a 30-day public comment period. The RAWP with a Stipulation List dated August 5, 2013, was approved by the New York City Office of Environmental Remediation (OER) on September 11, 2013. A pre-construction meeting was held on February 18, 2014. A revised Stipulation List dated March 12, 2014, was approved by OER and remedial action began in May of 2014 and completed in May of 2015.

The remedial action consisted of the following tasks:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan;
2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Established Track 4 Site-Specific Soil Cleanup Objectives (SCOs). Excavated soil/fill in excess of Track 4 Site-Specific SCOs from within building footprint and rear courtyard. Collected and analyzed end-point samples to determine the performance of the remedy with respect to attainment of Track 4 Site-Specific SCOs.
4. Excavated 2,044.64 tons of non-hazardous historic fill material and transported to Clean Earth of Philadelphia, and excavated 882.50 tons of clean soil and transported to P. Park

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NJ LLC located in Prospect Park, NJ. The majority of the Site was excavated to a depth of approximately 11 feet for the new building's cellar level. All historic fill material was excavated from the rear courtyard;

5. As part of development, installed a vapor barrier system beneath the building slab and behind foundation walls. The vapor barrier consists of Raven Industries' VaporBlock Plus 20, a seven-layer co-extruded 20 mil vapor barrier made from polyethylene and EVOH resins. The vapor barrier extends throughout the entire area of the building and encapsulates the cellar. All vapor barrier seams, penetrations, and repairs were sealed utilizing the tape method, in accordance with to the manufacturer's installation instructions;
6. Constructed an engineered composite cover consisting of the building's 4-inch thick concrete slab and 6-inch sub-base consisting of 3/4" RCA, and a 4-inch thick concrete slab underlain by 3/4" RCA in the rear courtyard to prevent human exposure to residual soil/fill remaining under the Site;;
7. Imported 20 truck loads (approximately 700 tons) of 3/4 inch crushed concrete (RCA) from Evergreen Recycling of Corona, Inc.;
8. Transported and disposed off-Site of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Collected, sampled and analyzed samples representative of excavated media as required by disposal facilities. Appropriately segregated excavated media on Site;
9. Screened excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID;
10. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations;
11. Performed all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations; and
12. Submitted a RAR that: certifies that the remedial requirements have been achieved; defines the Site boundaries; and describes the remedial activities including any changes from the RAWP;

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13. Submission of an approved Site Management Plan (SMP) in the RAR for long-term management of soil and soil vapor, including plans for operation, maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
14. Continued registration of the property as an E-Designated property at the NYC Department of Buildings.

Track 4 Site-Specific Soil Cleanup Objectives established for the Site were the following:

Contaminant	**Track 4 Site Specific SCOs**
Total SVOCs	250 ppm
Lead	800 ppm
Mercury	2.0 ppm
Zinc	500 ppm

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3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN

3.1 Construction Health & Safety Plan (CHASP)

The remedial construction activities performed under this program were in compliance with the Construction Health and Safety Plan and applicable laws and regulations. The Site Safety Coordinator was Kevin Waters - EBC.

3.2 Community Air Monitoring Plan (CAMP)

The Community Air Monitoring Plan provided for the collection and analysis of air samples during remedial construction activities to ensure proper protections were employed to protect workers and the neighboring community. Monitoring was performed in compliance with the Community Air Monitoring Plan in the approved RAWP. The results of Community Air monitoring are shown in Appendix E.

3.3 Soil/Materials Management Plan

The Soil/Materials Management Plan in the RAWP provided detailed plans for managing all soils/materials that were disturbed at the Site, including excavation, handling, storage, transport and disposal. It also included a series of controls to assure effective, nuisance free remedial activity in compliance with applicable laws and regulations. Remedial construction activities performed under this program were in full compliance with the SMMP in the approved RAWP.

3.4 Storm-Water Pollution Prevention

Storm water pollution prevention included physical methods and processes to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soils, via wind or water. Remedial construction activities performed under this program were in full compliance with methods and processes defined in the RAWP for storm water prevention and applicable laws and regulations.

3.5 Deviations From the Remedial Action Work Plan

Deviations from the Remedial Action Work Plan are summarized below:

- Track 1 was proposed in the RAWP. However, Track 4 Site-Specific SCOs were achieved. All historic fill at the Site has been removed, and soil at the final excavation

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depth consisted of a native soil. All metals, VOC's, pesticides, and PCB's, and almost all SVOC's, achieved Track 2 Restricted Residential Use SCO's. Track 2 Restricted Residential Use SCOs were marginally exceeded in several end-point samples for several SVOC's. A tabular summary of the end-point soil sample results is included on Table 2 (SVOCs) and Table 4 (metals), and Restricted Residential Use SCO and Unrestricted Use SCO exceedences are posted on Figure 6.

No other significant deviations from the Remedial Action Work Plan occurred during implementation of the Remedial Action Work Plan.

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4.0 REMEDIAL PROGRAM

4.1 Project Organization

The PE responsible for implementation of the remedial action for this project was Ariel Czmerinski P.E., AMC Engineering. On-Site air monitoring in accordance with the CHASP and CAMP, soil screening and soil sampling was performed by Sunny Chen, Kristen Discenza, or Kevin Waters of EBC. The Qualified Environmental Professional which implemented the remedial action was Kevin Brussee, Project Manager-EBC.

The excavation and foundation contractor was Reliable NYC Construction, and the developer was Sterling Town Equities, LLC.

4.2 Site Controls

Site Preparation

Plans for the new building (NYC DOB Job number NB-320591739) were approved on March 3, 2014. Waste characterization soil sampling was performed on November 13, 2013, prior to mobilization to obtain soil disposal approval and to minimize the need for on-Site soil stockpiles. On May 15, 2014, equipment was mobilized to the Site to begin excavation of on-Site soil.

Soil Screening

All intrusive soil excavation activities were overseen by an EBC qualified environmental professional (QEP). In addition to extensive sampling and chemical testing of soils on the Site, excavated soil was screened continuously using hand-held instruments, by sight, and by smell to ensure proper material handling and management, and community protection. Excavation at the Site commenced with the removal of historic fill which was encountered across the Site to a depth of approximately 6 feet below grade. No physical or olfactory evidence of a spill was observed during Site excavation. Following removal of historic fill material, clean native soil from approximately 6 feet and below was excavated as necessary for the new building.

Stockpile Management

For the majority of the project, soil was excavated from the ground and live loaded into trucks to eliminate the need for stockpiling. However, any soil stockpiles that were generated and kept overnight were covered with 6-mil poly-sheeting to prevent dust and minimize odors. Stockpile

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covers were inspected by the EBC QEP.

Truck Inspection

A stabilized construction entrance was constructed at the front of the Site, which exited and entered from Downing Street. The stabilized entrance was constructed of a bed of crushed concrete which was sloped back toward the interior of the Site. The stabilized entrance was inspected on a daily basis during soil loading activities and reinforced as needed with additional concrete material to prevent the accumulation of ruts, mud or soil and to minimize the potential for impacted soil to be dispersed beyond the Site boundary. Before exiting the Site, trucks were examined for evidence of contaminated soil on the undercarriage, body, and wheels. If soil/debris was observed, it was removed utilizing brooms or shovels.

Site Security

An 8-ft high construction fence was constructed around the perimeter of the property. The fence was locked with a chain and padlock during non-working hours/days.

Nuisance Controls

No petroleum or other odors were detected during removal of the historic fill layer. On-site soil screening did not detect any excessive PID readings and no complaints were reported. Dust and odor was minimized by excavating and live-loading directly into trucks, and covering stockpiles with 6-mil poly sheeting overnight during off-work hours.

Reporting

Daily status reports were prepared and forwarded to the OER project manager for construction days in which soil disturbance activities were performed (soil excavation/loading). A copy of each of the daily status reports is included in Appendix F.

Digital photographs of the remedial action are included in Appendix D.

4.3 Materials Excavation and Removal

Historic Fill was encountered across the Site from grade to depths as great as 6 feet. Excavation and removal of all historic fill material from across the entire Site was completed in May of 2014. The historic fill material layer in the rear courtyard was limited to the top 2 feet. A total of

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2,044.64 tons of non-hazardous historic fill material was removed and transported to Clean Earth of Philadelphia. Following removal of the historic fill material, native soil was excavated to a depth of approximately 11 feet below grade for the new building's cellar level. A total of 882.50 tons of native soil was removed and transported to Prospect Park.

A map showing the location where excavation were performed is shown in Figure 5. No material was reused on-Site.

4.3.2 End Point Sample Results

Following excavation for the new building, EBC collected six endpoint soil samples. The location of each of the endpoint soil samples is shown on Figure 6. Dedicated disposable sampling equipment was utilized to collect each endpoint sample, eliminating the need for field equipment (rinsate) blanks.

The endpoint soil samples were appropriately packaged, placed in a cooler and picked up by laboratory courier for transport to the analytical laboratory. The samples were containerized in laboratory provided glassware and shipped in plastic coolers preserved utilizing ice or "cold-paks" to maintain a temperature of 4°C.

Endpoint samples EP1 through EP6 were submitted to Phoenix Environmental Laboratories, Inc. located at 587 East Middle Turnpike, in Manchester, CT 06040 (NYS ELAP Certification No. 11301) for laboratory analysis utilizing the following methodology:

- Semi-volatile organic compounds by EPA Method 8270; and
- Target Analyte List metals by EPA Method 6010 and 7471.

A copy of each of the laboratory reports for the endpoint soil samples is attached in Appendix G. A tabular summary of the end-point soil sample results is included on Table 2 (SVOCs) and Table 4 (metals), and Restricted Residential Use SCO and Unrestricted Use SCO exceedences are posted on Figure 6. The laboratory results of the six soil samples collected at the final excavation depth during the RI (12-14 feet below grade) are summarized on Tables 1 through 4. As shown on Tables 2, several SVOCs were detected slightly above Track 2 Restricted Residential Use SCOs within 3 of the 6 endpoint soil samples, and the metals copper, lead and/or mercury were detected at a concentrations slightly above Track 1 Unrestricted Use SCOs within

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three of the six endpoint soil samples. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Track 1 Unrestricted Use SCOs within any of the six soil samples collected during the RI (12-14 feet below grade).

4.4 Materials Disposal

Waste characterization soil sampling was performed on November 12, 2013. Historic fill (brown silty sand with brick, concrete, and wood) was encountered from grade to a depth of approximately 6 feet below grade. In order to collect waste characterization soil samples from the historic fill layer at a frequency of one 5-point composite soil sample per 1,200 tons, EBC divided the Site into two Grid Sections (Green and Blue). Five test pits were excavated within each colored Grid Section from grade to a depth of approximately 12 feet. From the five test pits performed within the Green Grid Section, EBC formed one 5-pt composite soil sample representing the interval 0 to 6 feet. From the five test pits performed within the Blue Grid Section, EBC formed one 5-pt composite soil sample representing the interval 0 to 6 feet. In addition, EBC formed one 5-point composite soil sample to represent the clean native soil from the interval 6 to 12 feet below grade from the ten test pits. The three 5-point composite soil samples were submitted to a laboratory for analysis of VOCs, SVOCs, metals, TCLP metals, pesticides, herbicides, PCBs, paint filter and RCRA characteristics and paint filter.

The laboratory results, profile form, waste characterization soil sampling plan, and a formal letter describing the sampling process and material type, was forwarded to Clean Earth to obtain soil disposal approval for historic fill material at Clean Earth of Carteret and clean native soil at Prospect Park. A copy of the soil disposal request letter with the sampling plan and laboratory results is attached in Appendix H. A copy of the soil disposal acceptance letters issued by Clean Earth and Prospect Park is attached in Appendix I.

In March of 2014, 2,044.64 tons of non-hazardous historic fill material was excavated across the Site to depths as great as 6 feet below grade, and transported on a non-hazardous manifest to Clean Earth of Philadelphia. Clean Earth of Philadelphia (CEP) is located at 3201 South 61st Street, Philadelphia, Pennsylvania 19153. The CEP facility is a thermal desorption and physical treatment facility operating under PADEP Residual Waste Permit 301220. Copies of each of the non-hazardous manifests and associated scale tickets are included in Appendix J.

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An additional 882.50 tons of native clean soil was excavated across the Site to about 12 feet below grade and loaded into 10-wheel dump trucks for transport to P. Park NJ LLC (Prospect Park). Prospect Park is located at 100 Planten Avenue in Prospect Park, New Jersey. Prospect Park is a former stone quarry that is undergoing a reclamation project in accordance with the Material Handling Plan. Copies of each of the non-hazardous manifests and associated scale tickets are included in Appendix K.

The volume/tonnage and destination of material removed and disposed off-Site is presented below:

Table 6 - Disposal Quantities and Disposal Facilities

Destination	Type of Material	Quantity
Clean Earth of Philadelphia 3201 South 61st Street, Philadelphia, PA 19153	Non-Hazardous Fill Material	2,044.64 tons
Prospect Park 100 Planten Avenue, Prospect Park, NJ 07508	Clean Native Soil	882.50 tons

4.5 Backfill Import

On April 29, 2015, April 30, 2015, and March 1, 2015, a total of 20 truck loads (approximately 700 tons) of 3/4 inch crushed concrete (RCA) was imported from Evergreen Recycling of Corona, Inc. located at 127-50 Northern Boulevard, Flushing, New York 11368, to backfill the over excavated rear courtyard. Evergreen Recycling of Corona is a facility registered with NYSDEC (Registration Number 41W93) to accept uncontaminated concrete, asphalt and soil. A copy of the facility permit is included in Appendix L. A copy of a representative sieve analysis report is attached in Appendix L. A copy of each of the source invoices for each load of RCA is also attached in Appendix L. No other backfill was imported to the Site.

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5.0 ENGINEERING CONTROLS

Engineering Controls were employed in the remedial action to address residual contamination remaining at the Site. The Site has two primary Engineering Control Systems. These are:

Composite Cover System

Exposure to residual soil/fill is prevented by an engineered Composite Cover System that has been built on the Site. The Composite Cover System consists of the building's 4-inch thick concrete slab and 6-inch sub-base consisting of 3/4" RCA, and a 4-inch thick concrete slab underlain by 3/4" RCA in the rear courtyard. Foundation drawings included in Appendix C depict the design for each remedial cover type used on this Site. Figure 8 shows the location of each cover type built at the Site. Photographs of construction of the Composite Cover System are included in Appendix D. The composite cover system was installed by Reliable NYC Construction.

Vapor Barrier

As part of development, exposure to soil vapor is prevented by a Vapor Barrier System that has been built on the Site. Migration of soil vapor from potential off-site sources is mitigated with a combination of building slab and vapor barrier. A high density polyethylene vapor barrier liner (HPDE) prior to pouring mat concrete slab. The vapor barrier below the building slab consists of Raven Industries' VaporBlock Plus 20, which is a seven-layer co-extruded 20 mil vapor barrier made from polyethylene and EVOH resins. The vapor installed behind the foundation walls consists of Grace Preprufe 300R. All vapor barrier seams, penetrations, and repairs were sealed utilizing the tape method, in accordance with to the manufacturer's installation instructions. Photos of the vapor barrier being installed are included in Appendix D and the approximate layout is shown on Figure 7. The vapor barrier was installed by the foundation contractor, Reliable NYC Construction.

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6.0 INSTITUTIONAL CONTROLS

A series of Institutional Controls are required under this Remedial Action to implement, maintain, inspect and certify Engineering Controls and prevent future exposure to residual contamination by controlling disturbances of the subsurface soil. Adherence to these Institutional Controls is required under this remedial action and will be implemented under the Site Management Plan included in this RAR. These Institutional Controls for the Site are:

(1) The property will continue to be registered with an E-Designation with the NYC Department of Buildings. Property owner and property owner's successors and assigns are required to comply with the approved SMP;
(2) Compliance with an OER-approved Site Management Plan including procedures for appropriate operation, maintenance, inspection, and certification of performance of EC's and IC's. The property owner and property owner's successors and assigns will inspect EC's and IC's and submit to OER a written certification that evaluates their performance in a manner and at a frequency to be determined by OER;
(3) Engineering Controls will not be discontinued without prior OER approval;
(4) OER has the right to enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's;
(5) The Site will be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.
(6) Vegetable gardens and farming in residual soil/fill on the Site are prohibited;
(7) Use of groundwater underlying the Site without treatment rendering it safe for its intended use is prohibited;
(8) All future activities on the Site that will disturb residual soil/fill must be conducted pursuant to the Soil/Materials Management provisions of the SMP, or otherwise approved by OER;
(9) The Site is intended to be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

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7.0 SITE MANAGEMENT PLAN

Site management is the last phase of the remedial process and begins after the approval of the Remedial Action Report (RAR) and issuance of the Notice of Completion (NOC) by OER. It is the responsibility of the property owner (Fulton Hill Corner, LLC) to ensure that all Site management responsibilities are performed. The penalty for failure to implement the SMP includes revocation of the Notice of Completion and all associated certifications and liability protections. If the building is sold, the new owners will be notified of the SMP requirements.

Engineering Controls (ECs) and Institutional Controls (ICs) have been incorporated into this remediation to ensure that the Site remains protective of public health and the environment. EC's provide physical protective measures. ICs provide restrictions on Site usage and provide operation, maintenance, inspection and certification measures. This SMP includes all methods necessary ensure compliance with ECs and ICs required for the property.

The SMP provides a detailed description of procedures required to manage residual material at the Site following the completion of remedial construction in accordance with the NYC Voluntary Cleanup Agreement with OER. This includes: (1) operation and maintenance of Engineering Controls (2) periodic inspections of IC's and EC's and (3) certification of Engineering Controls and Institutional Controls.

ENGINEERING AND INSTITUTIONAL CONTROLS

Engineering Controls

Engineering Controls are employed in the remedial action to address residual materials remaining at the Site. The Site has a two Engineering Controls. These are:

- Soil Vapor Barrier System; and
- Composite Cover System.

Operation and Maintenance of the Composite Cover System

The composite cover system consists of the building's 4-inch thick concrete slab and 6-inch sub-base consisting of 3/4" RCA, and a 4-inch thick concrete slab underlain by 3/4" RCA in the rear courtyard. The composite cover system is a permanent Engineering Control for the Site. The composite cover system does not require any special operation or maintenance in order to perform as designed in the RAWP. A Soil/Materials Management Plan is included in this Site

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Management Plan to outline the procedures to be followed in the event that the composite cover system and underlying residual soil/material must be disturbed after the remedial action is complete.

The system will be inspected and its performance certified at specified intervals defined in this SMP. Procedures for the inspection and maintenance of this cover are provided below.

Operation and Maintenance of Vapor Barrier System

Chapter 5 describes the Vapor Barrier System utilized in this Remedial Action and provides as-built design details and the system location. The Vapor Barrier System is a permanent Engineering Control for the Site. The system will be inspected and its performance certified at specified intervals defined in this SMP.

The Vapor Barrier System does not require any special operation or maintenance activities. If the system is breached during future construction activities, the system will be rebuilt by reconstructing the vapor barrier layers and sealing the newly constructed materials with equivalent barrier materials in accordance with manufacturer specifications.

Institutional Controls

A series of Institutional Controls are required under this Remedial Action to assure permanent protection of public health by elimination of exposure to residual materials. These IC's define the program to operate, maintain, inspect and certify the performance of Engineering Controls and Institutional Controls on this property. These Institutional Controls will be implemented in accordance with the Site Management Plan included in this RAR.

Institutional Controls for this property are:

(1) The property will continue to be registered with an E-Designation with the NYC Department of Buildings. Property owner and property owner's successors and assigns are required to comply with the approved SMP;

(2) Compliance with an OER-approved Site Management Plan including procedures for appropriate operation, maintenance, inspection, and certification of performance of EC's and IC's. The property owner and property owner's successors and assigns will inspect

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EC's and IC's and submit to OER a written certification that evaluates their performance in a manner and at a frequency to be determined by OER;

(3) Engineering Controls will not be discontinued without prior OER approval;

(4) OER has the right to enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's;

(5) The Site will be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

(6) Vegetable gardens and farming in residual soil/fill on the Site are prohibited;

(7) Use of groundwater underlying the Site without treatment rendering it safe for its intended use is prohibited;

(8) All future activities on the Site that will disturb residual soil/fill must be conducted pursuant to the Soil/Materials Management provisions of the SMP, or otherwise approved by OER;

(9) The Site is intended to be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

INSPECTIONS

Engineering Controls and Institutional Controls will be inspected by a qualified environmental professional and certification of inspection shall be submitted by July 31, 2022 (for calendar years 2016-2021) and will be performed every five years thereafter.

The QEP inspections will evaluate the following:

- If Engineering Controls or Institutional Controls employed at the Site continue to perform as designed and continue to be protective of human health and the environment;
- If anything has occurred that impairs the ability of the Engineering Controls or Institutional Controls to protect public health and the environment;
- If changes are needed to the remedial systems or controls;
- If compliance with this SMP has been maintained;
- If site records are complete and up to date; and
- General Site conditions at the time of inspection.

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In an addition, if an emergency occurs, such as a natural disaster, or if an unforeseen failure of any of the Engineering Controls occurs, an inspection of the Site will be performed within 30 days to evaluate the Engineering Controls and a letter report of findings will be submitted to OER.

Engineering Control Inspection

Inspection of Composite Cover System

The Site consists of a 7-story mixed use building with a full cellar level and a rear courtyard. Inspection of the composite cover will consist of a visual inspection of the concrete cellar slab and the concrete capped rear courtyard. The inspection will include all accessible locations including the site perimeter and all internal access points on the cellar level. The inspector will document any faulty or defective conditions observed during the inspection, broken or damaged concrete, or any failure in the integrity of the floor that would compromise the ability of the composite cover to perform as an engineering control. Cracks, holes, perforations or slab disturbances shall be recorded on the Inspection Checklist (Appendix L). Inspections by building superintendent will identify any obvious damage to the composite cover system.

Inspection of Vapor Barrier System

The vapor barrier system will be inspected by a qualified environmental professional to assure that it is functioning properly. The vapor barrier system is not visible and cannot be directly inspected. However, it can be inspected in concert with inspection of the building slab. If the inspector observes a failure in the slab that exposes the vapor barrier, then the underlying vapor barrier will be inspected for any damage, including tears or perforations, which would prevent the vapor barrier from completing its intended purpose. Cracks, holes, perforations or slab disturbances shall be recorded on the Inspection Checklist (Appendix L) and remediated as appropriate.

Site Use Prohibitions

Inspections to evaluate the status of site use prohibitions will include an evaluation of whether the Site has been used for a higher level of use other than the restricted residential use addressed by the Remedial Action.

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INSPECTION AND CERTIFICATION LETTER REPORT

Results of inspections performed during a reporting period and certification of performance of all Engineering Controls and Institutional Controls will be included in an Inspection and Certification Letter Report to be submitted by July 31, 2022 (for calendar years 2016-2021) and will be performed every five years thereafter. Inspection and Certification Letter Reports will be submitted to OER in digital format. The letter report will include, at a minimum:

- Date of inspections;
- Personnel conducting inspections;
- Description of the inspection activities performed;
- Any observations, conclusions, or recommendations;
- Copy of any inspection forms;
- Certification of the performance of Engineering Controls and Institutional Controls, as discussed below; and
- Confirmation of regular periodic inspection of engineering controls by building superintendent.

The certification of the performance of EC's and IC's will establish:

- If Engineering Controls or Institutional Controls employed at the Site continue to be in place and perform as designed and continue to be protective of human health and the environment;
- If anything has occurred that impairs the ability of Engineering Controls or Institutional Controls to protect public health and the environment;
- If changes are needed to the remedial systems or controls;
- If compliance with this Site Management Plan has been maintained;
- If the Site has been used for a higher level of use other than the restricted residential use addressed by the Remedial Action;
- If site records are complete and up to date;
- If the Site continues to be registered as an E-Designated property by the NYC Department of Buildings;
- OER may enter the Site upon notice for the purpose of evaluating the performance of EC's & IC's.

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NOTIFICATIONS

Notifications are to be submitted by the property owner to OER as described below:

- 60-day advance notice of any proposed changes in Site use to Unrestricted Use that is not contemplated is the Remedial Action.
- Notice within 10 days of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the Site.

SOIL/MATERIALS MANAGEMENT PLAN

Any future intrusive work that will disturb residual soil/fill beneath the property, including modifications or repairs to the existing composite cover system, will be performed in compliance with this Soil/Materials Management Plan (SMMP). Intrusive work will also be conducted in accordance with the procedures defined in the Community Air Monitoring Plan (CAMP) in this plan and a Construction Health and Safety Plan (HASP). The HASP is the responsibility of the property owner and should be in compliance with NYSDEC DER-10 Technical Guide and 29 CFR 1910 and 1926, and all other applicable Federal, State and City regulations. Intrusive construction work should be compliant with this SMMP and described in the next Inspection and Certification Letter Report.

Soil Screening Methods

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional (QEP). Soil screening will be performed during any future intrusive work.

Stockpile Methods

Stockpiles will be used to isolate excavated soil and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 6-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

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All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters, and other discharge points.

Characterization of Excavated Materials

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Excavated soil will only be reused on-site with prior approval by OER.

Materials Excavation, Load-Out and Departure

The PE/QEP overseeing the remedial action will:

- oversee intrusive work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this management plan;
- ensure that Site maintenance activities and maintenance-related grading cuts will not interfere with, or otherwise impair or compromise the remedial measures established during the remediation construction phase;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site;
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site intrusive work.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

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Off-Site Materials Transport

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance.

Outbound truck transport routes are shown on Figure 9. This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

Materials Disposal Off-Site

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Brooklyn, New York under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material.

Documentation associated with disposal of all material will include records and approvals for receipt of the material. All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste

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and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be retained and included in the following Inspection and Certification Report. A manifest system for off-Site transportation of exported materials will be employed. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

Materials Reuse On-Site

All of the soil excavated during any future repair or construction purposes will be placed in the same excavation it was derived from or will be disposed of off-site unless otherwise approved by OER beforehand.

Repair of Remedial Systems

After completion of invasive work, any damage of the engineering controls (composite cover system, vapor barrier, etc.) will be restored to the original condition established during initial construction.

Import of Backfill Soil from Off-Site Sources

In the event that soil importation is needed for the backfilling purposes, this Section presents the requirements for imported fill materials. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. The backfill and cover soil quality objectives including NYSDEC Part 375 Track 2 Residential SCOs and groundwater protections standards. A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

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- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC; and
- Virgin quarried material or other materials with an approved Beneficial Use Determination (BUD) from NYSDEC for reuse as clean fill.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this SMP. The Inspection and Certification Report will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

Source Screening and Testing

Inspection of imported fill material will include visual, olfactory, and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material from the identified clean soil sources will be taken at a minimum frequency of one sample for every 500 cubic yards of material. One composite sample will be collected form each source of virgin quarried material or other material with an NYSDEC approved BUD, unless otherwise approved by OER. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

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Recycled concrete aggregate (RCA) may be imported from facilities permitted or registered by NYSDEC. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA will not be used as cover material.

Fluids Management

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported, and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by New York City Department of Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility. Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by NYSDEC.

Storm-water Pollution Prevention

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. All existing stormwater systems will be inspected to ensure proper operation.

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

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This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEPs.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEPs.

Noise

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing

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monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuousbasis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure,

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whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

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CONTINGENCY PLAN

Emergency Telephone Numbers

In the event of any emergency condition pertaining to this remedial system, or if the building slab is disturbed, removed or altered, the Owner's representative(s) should contact the appropriate parties from the contact list below. Prompt contact should also be made to Environmental Business Consultants. These emergency contact lists must be maintained in an easily accessible location at the Site.

Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center: 3 day notice required for utility markout	(800) 272-4480
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

Contact Numbers

Environmental Business Consultants	(631) 504-6000
Office of Environmental Remediation	(212) 788-8841; 311

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TABLES

TABLE 1
1035 Fulton Street
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Remedial Investigation Results											
			SB1 (12-14') µg/Kg		SB2 (12-14') µg/Kg		SB3 (12-14') µg/Kg		SB4 (12-14') µg/Kg		SB5 (12-14') µg/Kg		SB6 (12-14') µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,1,1-Trichloroethane	680	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,1,2,2-Tetrachloroethane			ND	3.6	ND	2.2	ND	4.4	ND	3.4	ND	3.3	ND	3.4
1,1,2-Trichloroethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,1-Dichloroethane	270	26,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,1-Dichloroethene	330	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,1-Dichloropropene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2,3-Trichlorobenzene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2,3-Trichloropropane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2,4-Trichlorobenzene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2,4-Trimethylbenzene	3,600	52,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2-Dibromo-3-chloropropane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2-Dibromomethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2-Dichlorobenzene	1,100	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2-Dichloroethane	20	3,100	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,2-Dichloropropane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,3,5-Trimethylbenzene	8,400	52,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,3-Dichlorobenzene	2,400	4,900	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,3-Dichloropropane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
1,4-Dichlorobenzene	1,800	13,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
2,2-Dichloropropane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
2-Chlorotoluene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
2-Hexanone (Methyl Butyl Ketone)			ND	30	ND	18	ND	36	ND	28	ND	28	ND	29
2-Isopropyltoluene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
4-Chlorotoluene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
4-Methyl-2-Pentanone			ND	30	ND	18	ND	36	ND	28	ND	28	ND	29
Acetone	50	100,000	ND	36	ND	37	ND	44	ND	28	ND	33	ND	34
Acrylonitrile			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Benzene	60	4,800	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Bromobenzene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Bromochloromethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Bromodichloromethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Bromoform			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Bromomethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Carbon Disulfide			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Carbon tetrachloride	760	2,400	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Chlorobenzene	1,100	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Chloroethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Chloroform	370	49,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Chloromethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
cis-1,2-Dichloroethene	250	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
cis-1,3-Dichloropropene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Dibromochloromethane			ND	3.6	ND	2.2	ND	4.4	ND	3.4	ND	3.3	ND	3.4
Dibromomethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Dichlorodifluoromethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Ethylbenzene	1,000	41,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Hexachlorobutadiene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Isopropylbenzene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
m&p-Xylenes	260	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Methyl Ethyl Ketone (2-Butanone)	120	100,000	ND	36	ND	22	ND	44	ND	34	ND	33	ND	34
Methyl t-butyl ether (MTBE)	930	100,000	ND	12	ND	7.4	ND	15	ND	11	ND	11	ND	11
Methylene chloride	50	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Naphthalene	12,000	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
n-Butylbenzene	12,000	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
n-Propylbenzene	3,900	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
o-Xylene	260	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
p-Isopropyltoluene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
sec-Butylbenzene	11,000	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Styrene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
tert-Butylbenzene	5,900	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Tetrachloroethene	1,300	19,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Tetrahydrofuran (THF)			ND	12	ND	7.4	ND	15	ND	11	ND	11	ND	11
Toluene	700	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Total Xylenes			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
trans-1,2-Dichloroethene	190	100,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
trans-1,3-Dichloropropene			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
trabs-1,4-dichloro-2-butene			ND	12	ND	7.4	ND	15	ND	11	ND	11	ND	11
Trichloroethene	470	21,000	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Trichlorofluoromethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Trichlorotrifluoroethane			ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Vinyl Chloride	20	900	ND	6.1	ND	3.7	ND	7.3	ND	5.7	ND	5.5	ND	5.7
Total BTEX Concentration			0		0		0		0		0		0	
Total VOCs Concentration			0		0		0		0		0		0	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not Detected

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 2
1035 Fulton Street
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Remedial Investigation Results												Endpoint Soil Sample Results											
			SB1 (12-14') µg/Kg		SB2 (12-14') µg/Kg		SB3 (12-14') µg/Kg		SB4 (12-14') µg/Kg		SB5 (12-14') µg/Kg		SB6 (12-14') µg/Kg		EP1 µg/Kg		EP2 µg/Kg		EP3 µg/Kg		EP4 µg/Kg		EP5 µg/Kg		EP6 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
1,2,4-Trichlorobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Dichlorobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Diphenylhydrazine			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
1,3-Dichlorobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
1,4-Dichlorobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2,4,5-Trichlorophenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2,4,6-Trichlorophenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dichlorophenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dimethylphenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrophenol			ND	550	ND	570	ND	530	ND	550	ND	550	ND	530	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
2,4-Dinitrotoluene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2,6-Dinitrotoluene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2-Chloronaphthalene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2-Chlorophenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylnaphthalene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**100**	240	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylphenol (o-cresol)	330	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitroaniline			ND	550	ND	570	ND	530	ND	550	ND	550	ND	530	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
2-Nitrophenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
3,3'-Dichlorobenzidine			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 760	760	< 680	680	< 720	720	< 710	710	< 720	720	< 700	700
3-Nitroaniline			ND	550	ND	570	ND	530	ND	550	ND	550	ND	530	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
4,6-Dinitro-2-methylphenol			ND	990	ND	1,000	ND	970	ND	990	ND	1,000	ND	960	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
4-Bromophenyl phenyl ether			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloro-3-methylphenol			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloroaniline			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 760	760	< 680	680	< 720	720	< 710	710	< 720	720	< 700	700
4-Chlorophenyl phenyl ether			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
4-Nitroaniline			ND	550	ND	570	ND	530	ND	550	ND	550	ND	530	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
4-Nitrophenol			ND	990	ND	1,000	ND	970	ND	990	ND	1,000	ND	960	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
Acenaphthene	20,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**220**	240	< 250	250	< 250	250	**120**	250	**110**	250
Acenaphthylene	100,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**110**	240	< 250	250	< 250	250	**140**	250	< 250	250
Acetophenone			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Aniline			ND	990	ND	1,000	ND	970	ND	990	ND	1,000	ND	960	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
Anthracene	100,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**140**	270	**550**	240	< 250	250	< 250	250	**360**	250	**310**	250
Benz(a)anthracene	1,000	1,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**410**	270	**1,200**	240	< 250	250	**280**	250	**1,200**	250	**1,100**	250
Benzidine			ND	410	ND	430	ND	400	ND	410	ND	410	ND	400	< 760	760	< 680	680	< 720	720	< 710	710	< 720	720	< 700	700
Benzo(a)pyrene	1,000	1,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**340**	270	**1,100**	240	< 250	250	**250**	250	**1,100**	250	**840**	250
Benzo(b)fluoranthene	1,000	1,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**410**	270	**1,500**	240	< 250	250	**330**	250	**1,600**	250	**1,100**	250
Benzo(ghi)perylene	100,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**240**	270	**690**	240	< 250	250	**170**	250	**610**	250	**430**	250
Benzo(k)fluoranthene	800	3,900	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**160**	270	**510**	240	< 250	250	< 250	250	**560**	250	**400**	250
Benzoic acid			ND	990	ND	1,000	ND	970	ND	990	ND	1,000	ND	960	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethoxy)methane			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethyl)ether			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroisopropyl)ether			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-ethylhexyl)phthalate			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Carbazole			ND	510	ND	540	ND	500	ND	510	ND	520	ND	500	< 1900	1,900	**260**	1,700	< 1800	1,800	< 1800	1,800	**300**	1,800	< 1800	1,800
Chrysene	1,000	3,900	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**440**	270	**1,400**	240	< 250	250	**280**	250	**1,400**	250	**800**	250
Dibenz(a,h)anthracene	330	330	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**200**	240	< 250	250	< 250	250	**150**	250	< 250	250
Dibenzofuran	7,000	59,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**170**	240	< 250	250	< 250	250	**130**	250	< 250	250
Diethyl phthalate			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Dimethylphthalate			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-butylphthalate			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-octylphthalate			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Fluoranthene	100,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**800**	270	**2,300**	240	< 250	250	**550**	250	**2,600**	250	**2,000**	250
Fluorene	30,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**220**	240	< 250	250	< 250	250	**170**	250	< 250	250
Hexachlorobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorobutadiene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorocyclopentadiene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Hexachloroethane			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Indeno(1,2,3-cd)pyrene	500	500	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**200**	270	**710**	240	< 250	250	**140**	250	**660**	250	**350**	250
Isophorone			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Naphthalene	12,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	**190**	240	< 250	250	< 250	250	**110**	250	< 250	250
Nitrobenzene			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
N-Nitrosodimethylamine			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
N-Nitrosodi-n-propylamine			ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
N-Nitrosodiphenylamine			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Pentachloronitrobenzene			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Pentachlorophenol	800	6,700	ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Phenanthrene	100,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**760**	270	**2,300**	240	< 250	250	**340**	250	**2,100**	250	**1,600**	250
Phenol	330	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250
Pyrene	100,000	100,000	ND	240	ND	250	ND	230	ND	240	ND	240	ND	230	**770**	270	**1,900**	240	< 250	250	**500**	250	**2,100**	250	**1,700**	250
Pyridine			ND	340	ND	360	ND	330	ND	340	ND	350	ND	330	< 270	270	< 240	240	< 250	250	< 250	250	< 250	250	< 250	250

Notes:
* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
1035 Fulton Street
Brooklyn, New York
Soil Analytical Results
Pesticides PCBs

	COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Remedial Investigation Results											
				SB1 (12-14') µg/Kg		SB2 (12-14') µg/Kg		SB3 (12-14') µg/Kg		SB4 (12-14') µg/Kg		SB5 (12-14') µg/Kg		SB6 (12-14') µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	13,000	ND	2	ND	2.2	ND	2	ND	2	ND	2.1	ND	2
	4,4' -DDE	3.3	8,900	ND	2	ND	2.2	ND	2	ND	2	ND	2.1	ND	2
	4,4' -DDT	3.3	7,900	ND	2	ND	2.2	ND	2	ND	2	ND	2.1	ND	2
	a-BHC	20	480	ND	3.3	ND	3.5	ND	3.2	ND	3.3	ND	3.3	ND	3.2
	a-Chlordane	94	4,200	ND	3.3	ND	3.5	ND	3.2	ND	3.3	ND	3.3	ND	3.2
	Aldrin	5	97	ND	1	ND	1.1	ND	1	ND	1	ND	1	ND	1
	b-BHC	36	360	ND	3.3	ND	3.5	ND	3.2	ND	3.3	ND	3.3	ND	3.2
	Chlordane	94	4,200	ND	10	ND	11	ND	10	ND	10	ND	10	ND	10
	d-BHC	40	100,000	ND	3.3	ND	3.5	ND	3.2	ND	3.3	ND	3.3	ND	3.2
	Dieldrin	5	200	ND	1	ND	1.1	ND	1	ND	1	ND	1	ND	1
	Endosulfan I	2,400	24,000	ND	3.3	ND	3.5	ND	3.2	ND	3.3	ND	3.3	ND	3.2
	Endosulfan II	2,400	24,000	ND	6.6	ND	7	ND	6.5	ND	6.6	ND	6.7	ND	6.5
	Endosulfan sulfate	2,400	24,000	ND	6.6	ND	7	ND	6.5	ND	6.6	ND	6.7	ND	6.5
	Endrin	14	11,000	ND	6.6	ND	7	ND	6.5	ND	6.6	ND	6.7	ND	6.5
	Endrin aldehyde			ND	6.6	ND	7	ND	6.5	ND	6.6	ND	6.7	ND	6.5
	Endrin ketone			ND	6.6	ND	7	ND	6.5	ND	6.6	ND	6.7	ND	6.5
	g-BHC			ND	1	ND	1.1	ND	1	ND	1	ND	1	ND	1
	Heptachlor	42	2,100	ND	2	ND	2.2	ND	2	ND	2	ND	2.1	ND	2
	Heptachlor epoxide			ND	3.3	ND	3.5	ND	3.2	ND	3.3	ND	3.3	ND	3.2
	Methoxychlor			ND	33	ND	35	ND	32	ND	33	ND	33	ND	32
	Toxaphene			ND	33	ND	35	ND	32	ND	33	ND	33	ND	32
PCBs	PCB-1016	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1221	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1232	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1242	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1248	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1254	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1260	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1262	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67
	PCB-1268	100	1,000	ND	69	ND	73	ND	68	ND	68	ND	70	ND	67

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not Detected

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
1035 Fulton Street
Brooklyn, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1 (12-14') mg/Kg		SB2 (12-14') mg/Kg		SB3 (12-14') mg/Kg		SB4 (12-14') mg/Kg		SB5 (12-14') mg/Kg		SB6 (12-14') mg/Kg		EP1 mg/Kg		EP2 mg/Kg		EP3 mg/Kg		EP4 mg/Kg		EP5 mg/Kg		EP6 mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			**3,370**	53	**8,010**	58	**3,440**	46	**7,670**	48	**7,540**	55	**4,310**	50	**5,590**	40	**6,120**	36	**4,140**	34	**6,960**	33	**7,670**	36	**5,120**	36
Antimony			BRL	3.6	BRL	3.9	BRL	3.1	BRL	3.2	BRL	3.7	BRL	3.3	< 2.0	2.0	< 1.8	1.8	< 1.7	1.7	< 1.6	1.6	< 1.8	1.8	< 1.8	1.8
Arsenic	13	16	**0.9**	0.7	**1.6**	0.8	**1.4**	0.6	**2.1**	0.6	**1.7**	0.7	**1.1**	0.7	**2.1**	0.8	**1.8**	0.7	**1.3**	0.7	**2.5**	0.7	**2**	0.7	**1.7**	0.7
Barium	350	350	**20.3**	0.36	**33.4**	0.39	**25.4**	0.31	**41.6**	0.32	**49**	0.37	**30.6**	0.33	**57.9**	0.8	**73**	0.7	**30.5**	0.7	**62.3**	0.7	**68**	0.7	**52.4**	0.7
Beryllium	7.2	14	BRL	0.28	**0.43**	0.31	BRL	0.25	**0.44**	0.26	**0.37**	0.29	BRL	0.27	**0.45**	0.32	**0.37**	0.29	**0.3**	0.27	**0.42**	0.26	**0.45**	0.29	**0.28**	0.29
Cadmium	2.5	2.5	BRL	0.36	**0.41**	0.39	BRL	0.31	**0.43**	0.32	BRL	0.37	**0.38**	0.33	**0.38**	0.40	**0.32**	0.36	**0.18**	0.34	**0.31**	0.33	**0.27**	0.36	**0.2**	0.36
Calcium			**589**	5.3	**808**	5.8	**1,110**	4.6	**1,470**	4.8	**1,240**	5.5	**1,320**	5	**5,580**	4.0	**6,990**	3.6	**2,420**	3.4	**2,940**	3.3	**2,020**	3.6	**4,820**	36
Chromium	30	180	**7.49**	0.36	**29.7**	0.39	**10.9**	0.31	**19**	0.32	**20.6**	0.37	**15.6**	0.33	**15.7**	0.40	**19.3**	0.36	**13.4**	0.34	**17.3**	0.33	**16.3**	0.36	**14.1**	0.36
Cobalt			**2.98**	0.36	**7.12**	0.39	**5**	0.31	**6.96**	0.32	**4.54**	0.37	**9.26**	0.33	**6.81**	0.40	**7.39**	0.36	**5.14**	0.34	**9.02**	0.33	**7.63**	0.36	**6.46**	0.36
Copper	50	270	**6.73**	0.36	**34.7**	0.39	**12.1**	0.31	**36.4**	0.32	**19.2**	0.37	**14.1**	0.33	**123**	0.40	**29.5**	0.36	**11.2**	0.34	**22.1**	0.33	**23.4**	0.36	**19.2**	0.36
Iron			**7,940**	5.3	**26,600**	58	**21,100**	46	**24,300**	48	**20,200**	55	**25,600**	50	**23,000**	40	**17,900**	36	**9,270**	34	**23,400**	33	**18,700**	36	**16,900**	36
Lead	63	400	**2.37**	0.36	**37.8**	0.39	**4.13**	0.31	**9.54**	0.32	**5.21**	0.37	**4.3**	0.33	**50.7**	0.8	**85.1**	0.7	**6.7**	0.7	**40.1**	0.7	**80.4**	0.7	**57.1**	0.7
Magnesium			**1,060**	5.3	**2,180**	5.8	**1,410**	4.6	**3,110**	4.8	**4,260**	5.5	**1,990**	5	**2,920**	4.0	**3,290**	36	**3,040**	3.4	**2,860**	3.3	**2,120**	36	**2,290**	36
Manganese	1,600	2,000	**227**	3.6	**456**	3.9	**401**	3.1	**467**	3.2	**255**	3.7	**420**	3.3	**512**	4.0	**328**	3.6	**213**	3.4	**464**	3.3	**393**	3.6	**342**	3.6
Mercury	0.18	0.81	BRL	0.07	BRL	0.06	BRL	0.06	BRL	0.06	BRL	0.08	BRL	0.07	**0.19**	0.03	**0.18**	0.06	< 0.07	0.07	**0.09**	0.07	**0.17**	0.08	**0.17**	0.03
Nickel	30	140	**8.53**	0.36	**18.3**	0.39	**11**	0.31	**25.8**	0.32	**18**	0.37	**18.8**	0.33	**20.8**	0.40	**28**	0.36	**20.8**	0.34	**20.4**	0.33	**15.8**	0.36	**15.5**	0.36
Potassium			**564**	5.3	**857**	5.8	**543**	4.6	**1,610**	4.8	**2,040**	5.5	**1,040**	5	**1,120**	8	**1,100**	7	**1,660**	7	**1,230**	7	**877**	7	**914**	72
Selenium	3.9	36	BRL	1.4	BRL	1.5	BRL	1.2	BRL	1.3	BRL	1.5	BRL	1.3	< 1.6	1.6	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.4	1.4
Silver	2	36	BRL	0.36	BRL	0.39	BRL	0.31	BRL	0.32	BRL	0.37	BRL	0.33	< 0.40	0.40	< 0.36	0.36	< 0.34	0.34	< 0.33	0.33	< 0.36	0.36	< 0.36	0.36
Sodium			**76.5**	5.3	**76.5**	5.8	**63.3**	4.6	**156**	4.8	**205**	5.5	**84.4**	5	**137**	8	**235**	7	**129**	7	**167**	7	**60**	7	**126**	7
Thallium			BRL	0.6	BRL	0.6	BRL	0.5	BRL	0.5	BRL	0.6	BRL	0.5	< 1.6	1.6	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.4	1.4
Vanadium			**10.6**	0.36	**30.3**	0.39	**21.1**	0.31	**25.4**	0.32	**29.8**	0.37	**29.8**	0.33	**28.6**	0.4	**25**	0.4	**26.5**	0.3	**46.5**	0.3	**26.5**	0.4	**23.4**	0.4
Zinc	109	2,200	**13.4**	0.36	**44.9**	0.39	**18.7**	0.31	**53.3**	0.32	**30.5**	0.37	**20**	0.33	**72.4**	0.8	**82.9**	0.7	**23.7**	0.7	**56.6**	0.7	**66.6**	0.7	**54.6**	0.7

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BRL- Below Reporting Limit

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 5
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water	Unrestricted Use
		Residential	Restricted-Residential	Commercial	Industrial			
METALS								
Arsenic	7440-38 -2	16f	16f	16f	16f	13f	16f	13 [c]
Barium	7440-39 -3	350f	400	400	10,000 d	433	820	350 [c]
Beryllium	7440-41 -7	14	72	590	2,700	10	47	7.2
Cadmium	7440-43 -9	2.5f	4.3	9.3	60	4	7.5	2.5 [c]
Chromium, hexavalent [h]	18540-29-9	22	110	400	800	1e	19	1[b]
Chromium, trivalent[h]	16065-83-1	36	180	1,500	6,800	41	NS	30 [c]
Copper	7440-50 -8	270	270	270	10,000 d	50	1,720	50
Total Cyanide [h]		27	27	27	10,000 d	NS	40	27
Lead	7439-92 -1	400	400	1,000	3,900	63f	450	63 [c]
Manganese	7439-96 -5	2,000f	2,000f	10,000 d	10,000 d	1600f	2,000f	1600 [c]
Total Mercury		0.81j	0.81j	2.8j	5.7j	0.18f	0.73	0.18 [c]
Nickel	7440-02 -0	140	310	310	10,000 d	30	130	30
Selenium	7782-49 -2	36	180	1,500	6,800	3.9f	4f	3.9[c]
Silver	7440-22 -4	36	180	1,500	6,800	2	8.3	2
Zinc	7440-66 -6	2200	10,000 d	10,000 d	10,000 d	109f	2,480	109 [c]
PESTICIDES / PCBs								
2,4,5-TP Acid (Silvex)	93-72-1	58	100a	500b	1,000c	NS	3.8	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 e	17	0.0033 [b]
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 e	136	0.0033 [b]
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 e	14	0.0033 [b]
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19	0.005 [c]
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04g	0.02	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09	0.036
Chlordane (alpha)	5103-71 -9	0.91	4.2	24	47	1.3	2.9	0.094
delta-BHC	319-86-8	100a	100a	500b	1,000c	0.04g	0.25	0.04
Dibenzofuran	132-64-9	14	59	350	1,000c	NS	210	7
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1	0.005[c]
Endosulfan I	959-98-8	4.8i	24i	200i	920i	NS	102	2.4
Endosulfan II	33213-65-9	4.8i	24i	200i	920i	NS	102	2.4
Endosulfan sulfate	1031-07 -8	4.8i	24i	200i	920i	NS	1,000c	2.4
Endrin	72-20-8	2.2	11	89	410	0.014	0.06	0.014
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38	0.042
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1	0.1
Polychlorinated biphenyls	1336-36 -3	1	1	1	25	1	3.2	0.1
SEMI-VOLATILES								
Acenaphthene	83-32-9	100a	100a	500b	1,000c	20	98	20
Acenapthylene	208-96-8	100a	100a	500b	1,000c	NS	107	100 [a]
Anthracene	120-12-7	100a	100a	500b	1,000c	NS	1,000c	100 [a]
Benz(a)anthracene	56-55-3	1f	1f	5.6	11	NS	1f	1[c]
Benzo(a)pyrene	50-32-8	1f	1f	1f	1.1	2.6	22	1[c]
Benzo(b) fluoranthene	205-99-2	1f	1f	5.6	11	NS	1.7	1[c]
Benzo(g,h,i) perylene	191-24-2	100a	100a	500b	1,000c	NS	1,000c	100
Benzo(k) fluoranthene	207-08-9	1	3.9	56	110	NS	1.7	0.8 [c]
Chrysene	218-01-9	1f	3.9	56	110	NS	1f	1[c]
Dibenz(a,h) anthracene	53-70-3	0.33e	0.33e	0.56	1.1	NS	1,000c	0.33 [b]
Fluoranthene	206-44-0	100a	100a	500b	1,000c	NS	1,000c	100 [a]
Fluorene	86-73-7	100a	100a	500b	1,000c	30	386	30
Indeno(1,2,3-cd) pyrene	193-39-5	0.5f	0.5f	5.6	11	NS	8.2	0.5 [c]
m-Cresol	108-39-4	100a	100a	500b	1,000c	NS	0.33e	0.33 [b]
Naphthalene	91-20-3	100a	100a	500b	1,000c	NS	12	12
o-Cresol	95-48-7	100a	100a	500b	1,000c	NS	0.33e	0.33 [b]
p-Cresol	106-44-5	34	100a	500b	1,000c	NS	0.33e	0.33 [b]
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8e	0.8e	0.8[b]
Phenanthrene	85-01-8	100a	100a	500b	1,000c	NS	1,000c	100
Phenol	108-95-2	100a	100a	500b	1,000c	30	0.33e	0.33[b]
Pyrene	129-00-0	100a	100a	500b	1,000c	NS	1,000c	100

TABLE 5
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water	Unrestricted Use
		Residential	Restricted-Residential	Commercial	Industrial			
VOLATILES								
1,1,1-Trichloroethane	71-55-6	100a	100a	500b	1,000c	NS	0.68	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27	0.27
1,1-Dichloroethene	75-35-4	100a	100a	500b	1,000c	NS	0.33	0.33
1,2-Dichlorobenzene	95-50-1	100a	100a	500b	1,000c	NS	1.1	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02f	0.02[c]
cis-1,2-Dichloroethene	156-59-2	59	100a	500b	1,000c	NS	0.25	0.25
trans-1,2-Dichloroethene	156-60-5	100a	100a	500b	1,000c	NS	0.19	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1e	0.1e	0.1 [b]
Acetone	67-64-1	100a	100b	500b	1,000c	2.2	0.05	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06	0.06
Butylbenzene	104-51-8	100a	100a	500b	1,000c	NS	12	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76	0.76
Chlorobenzene	108-90-7	100a	100a	500b	1,000c	40	1.1	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1	1
Hexachlorobenzene	118-74-1	0.33e	1.2	6	12	NS	3.2	0.33[b]
Methyl ethyl ketone	78-93-3	100a	100a	500b	1,000c	100a	0.12	0.12
Methyl tert-butyl ether	1634-04 -4	62	100a	500b	1,000c	NS	0.93	0.93
Methylene chloride	75-09-2	51	100a	500b	1,000c	12	0.05	0.05
n-Propylbenzene	103-65-1	100a	100a	500b	1,000c	NS	3.9	3.9
sec-Butylbenzene	135-98-8	100a	100a	500b	1,000c	NS	11	11
tert-Butylbenzene	98-06-6	100a	100a	500b	1,000c	NS	5.9	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3	1.3
Toluene	108-88-3	100a	100a	500b	1,000c	36	0.7	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02	0.02
Xylene (mixed)	1330-20 -7	100a	100a	500b	1,000c	0.26	1.6	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

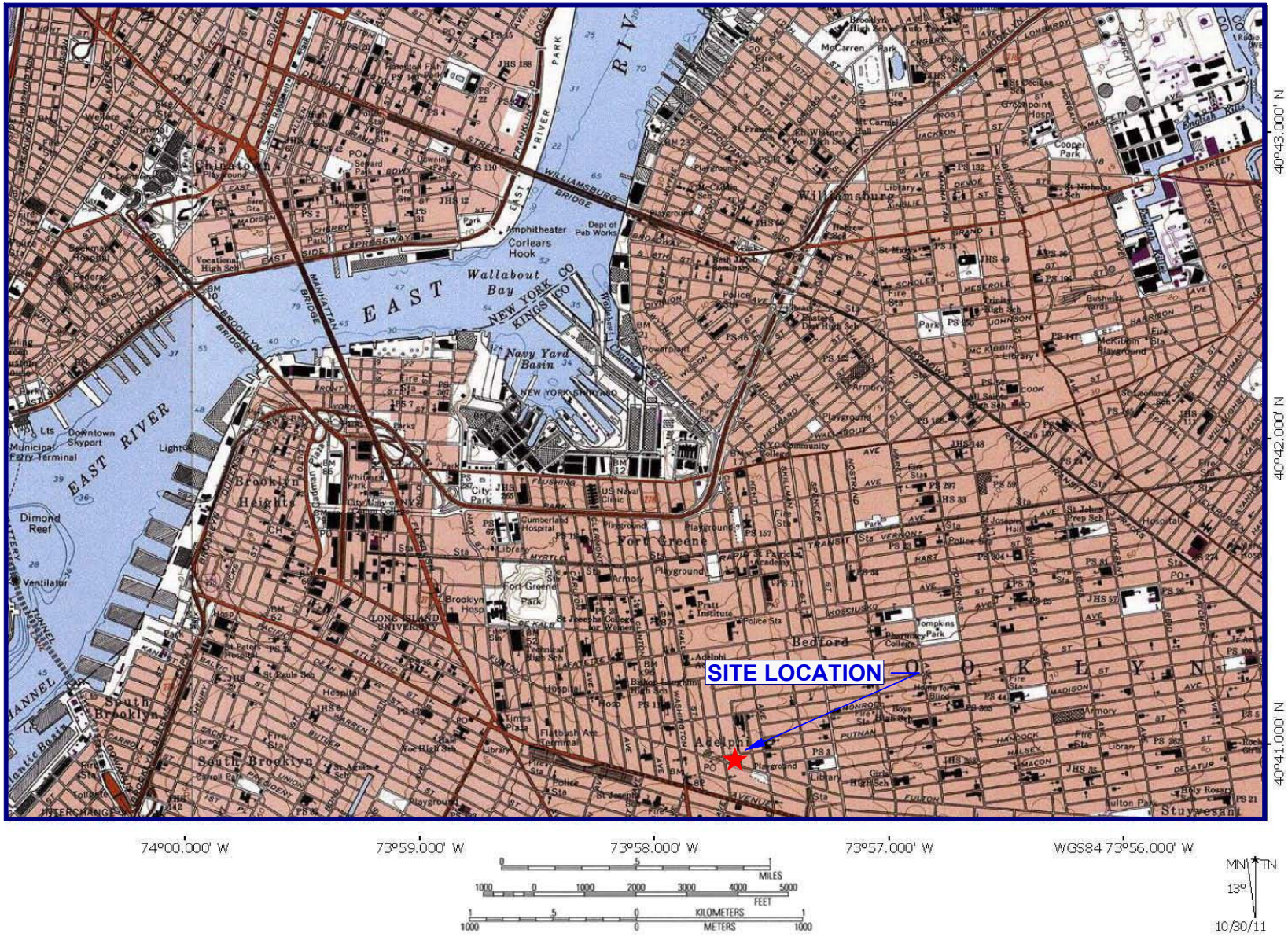
b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

c The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

FIGURES



USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

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Fax 631.924.2780

1035 FULTON STREET
BROOKLYN, NY

FIGURE 1 SITE LOCATION MAP

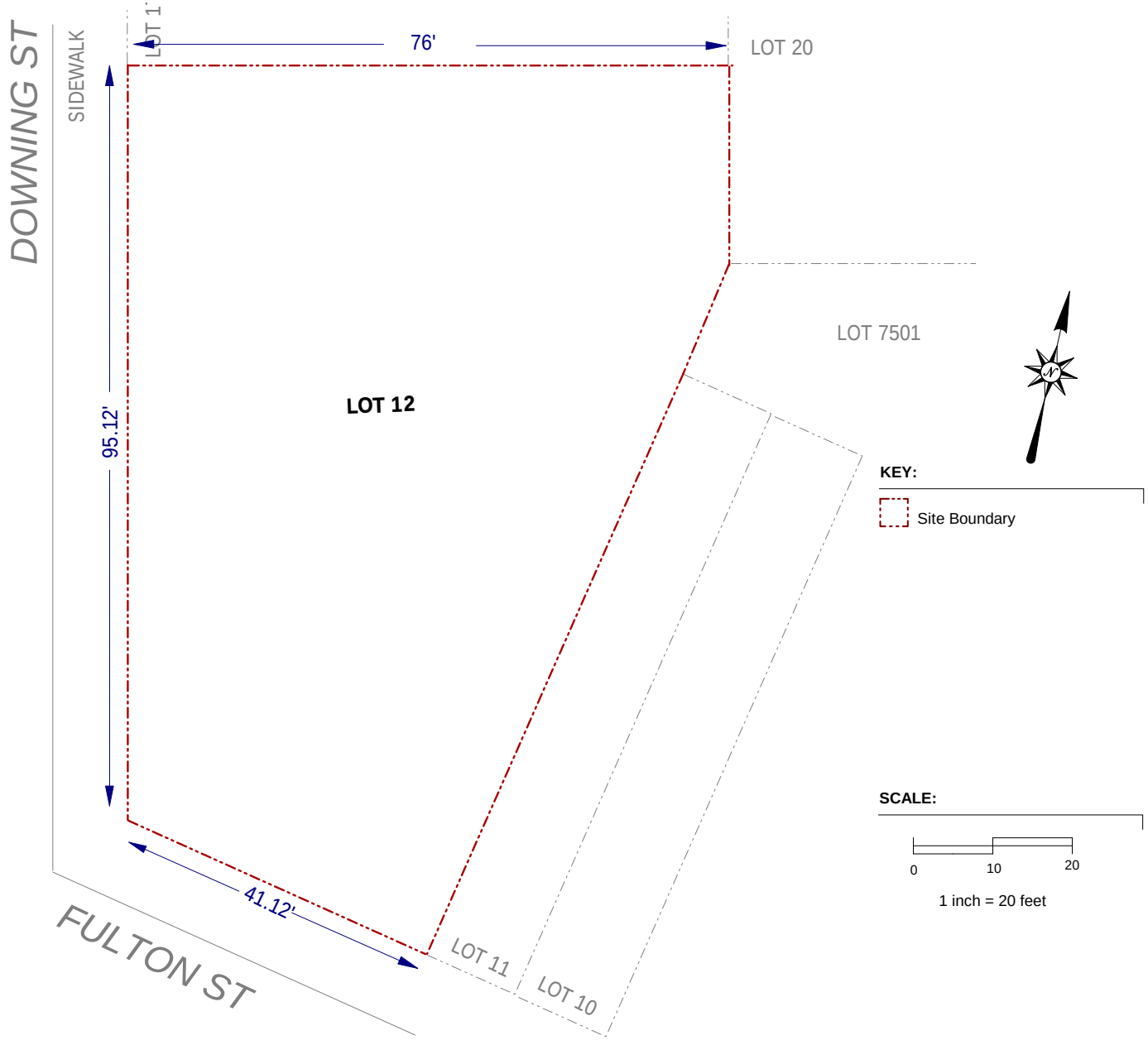

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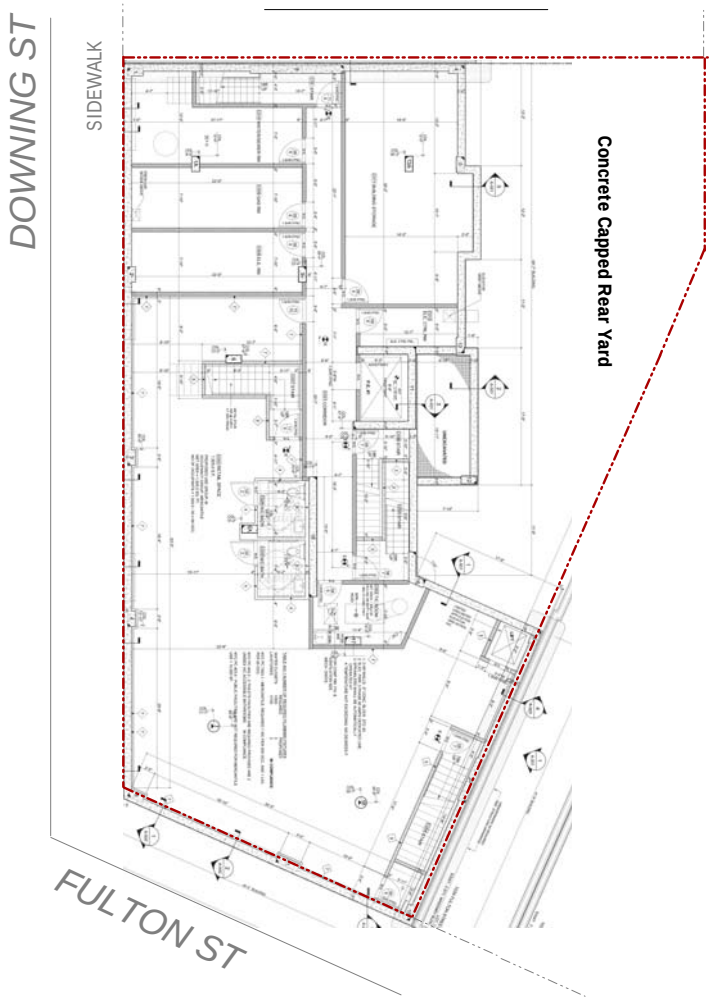
Figure No. 2

Site Name: Redevelopment Project

Site Address: 1035 Fulton Street, Brooklyn, NY

Drawing Title: Site Boundary Map

CELLAR FLOOR PLAN



FRONT ELEVATION

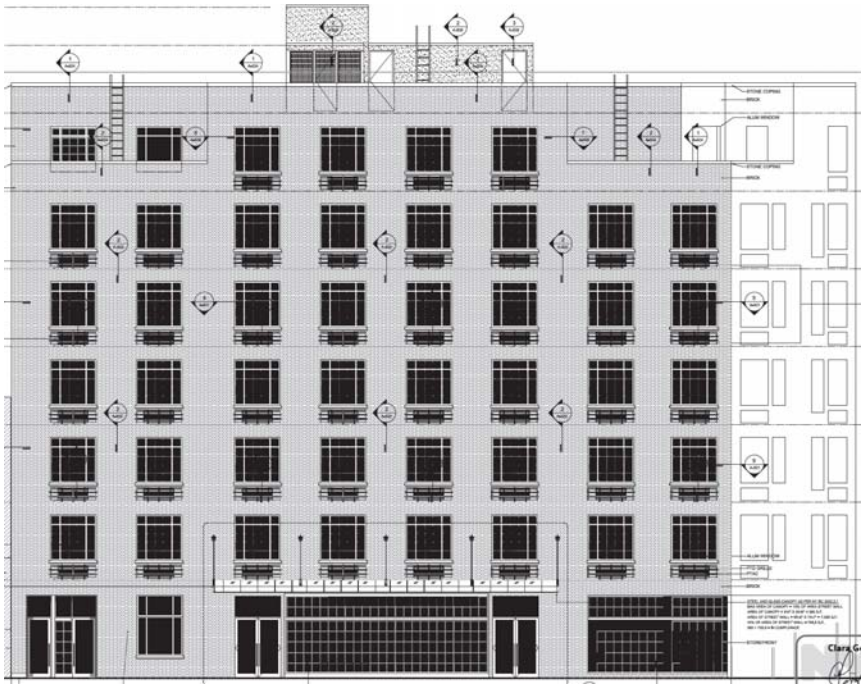


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Figure No. 3

Site Name: REDEVELOPMENT PROJECT
Site Address: 1035 FULTON STREET, BROOKLYN, NY
Drawing Title: REDEVELOPMENT PLAN

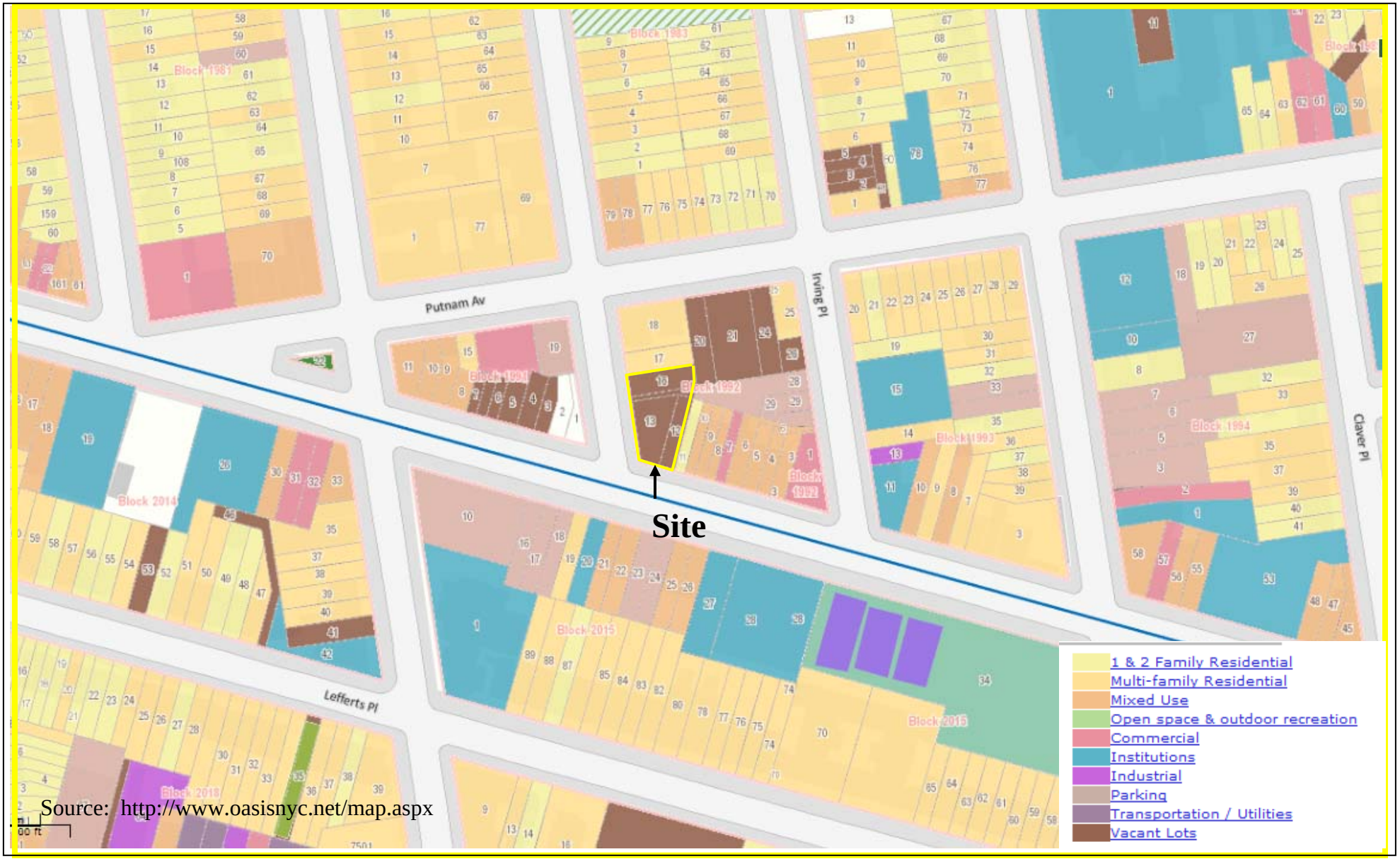

FIGURE 4

SURROUNDING LAND USE MAP

1035 FULTON STREET, BROOKLYN NY

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CELLAR FLOOR PLAN

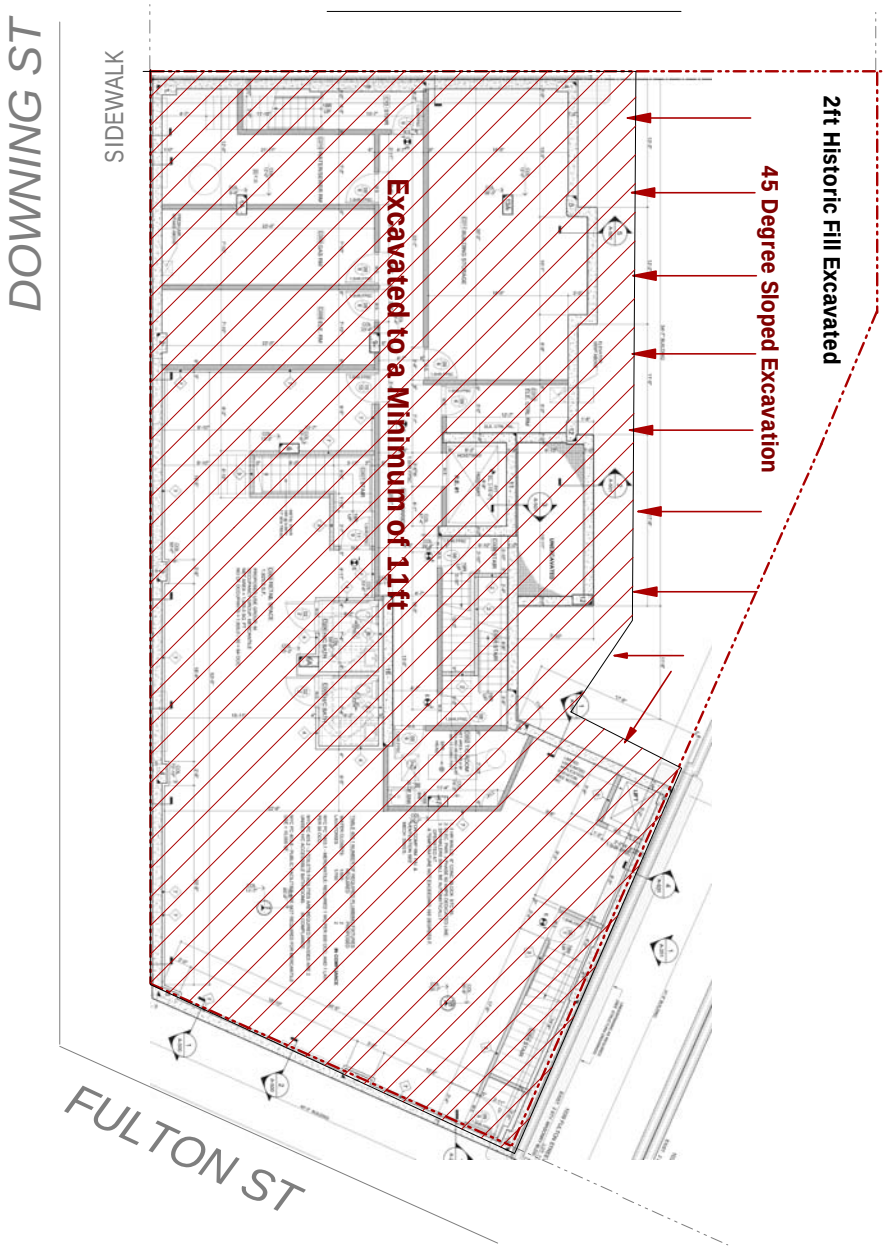

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Figure No. 5

Site Name: Redevelopment Project
Site Address: 1035 Fulton Street, Brooklyn, NY
Drawing Title: Excavation Diagram

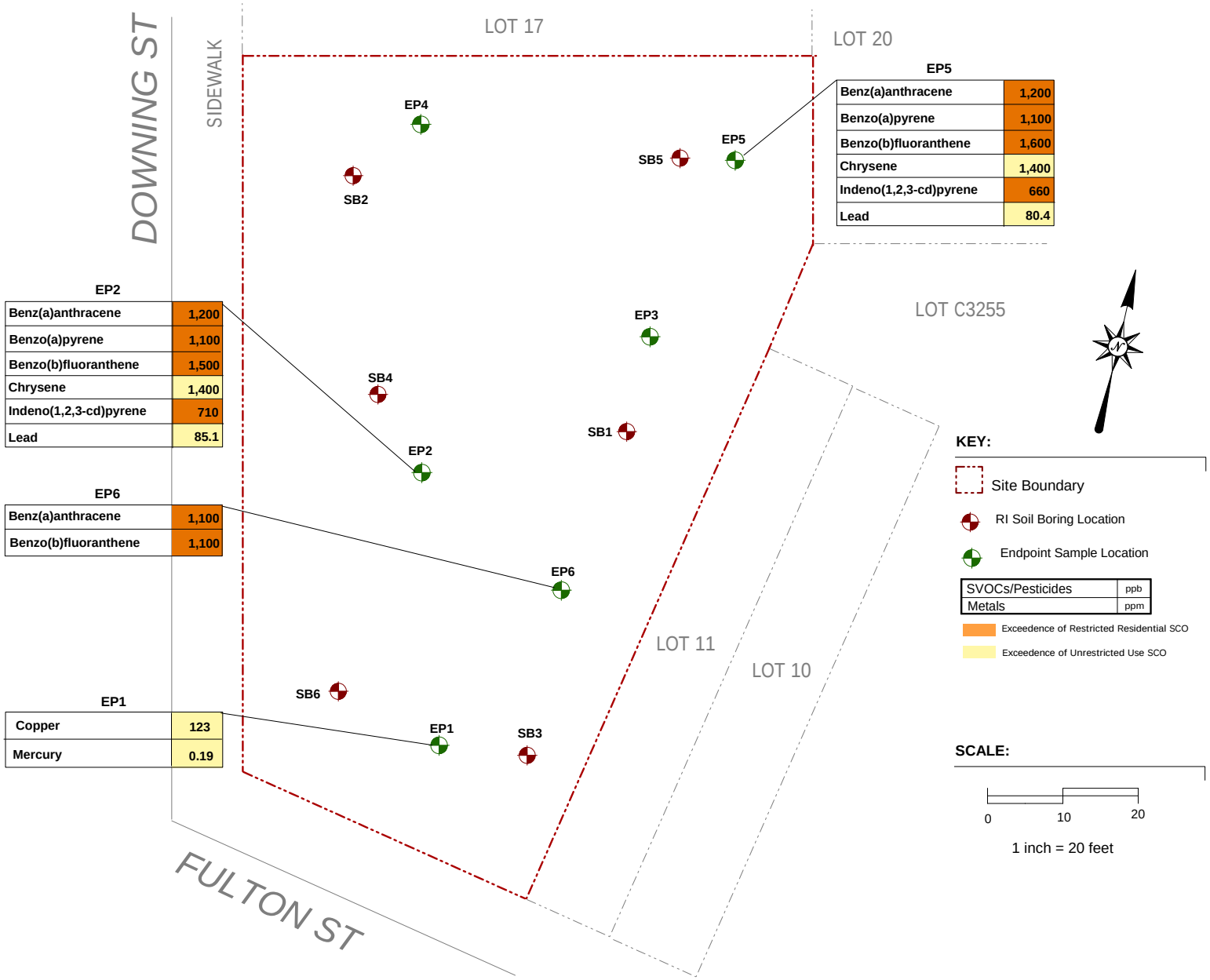

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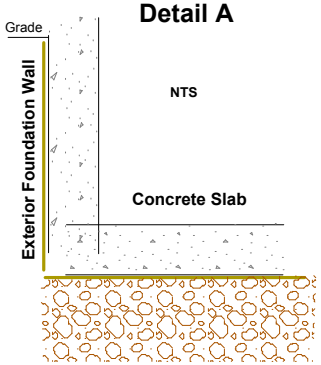
Figure No. 6

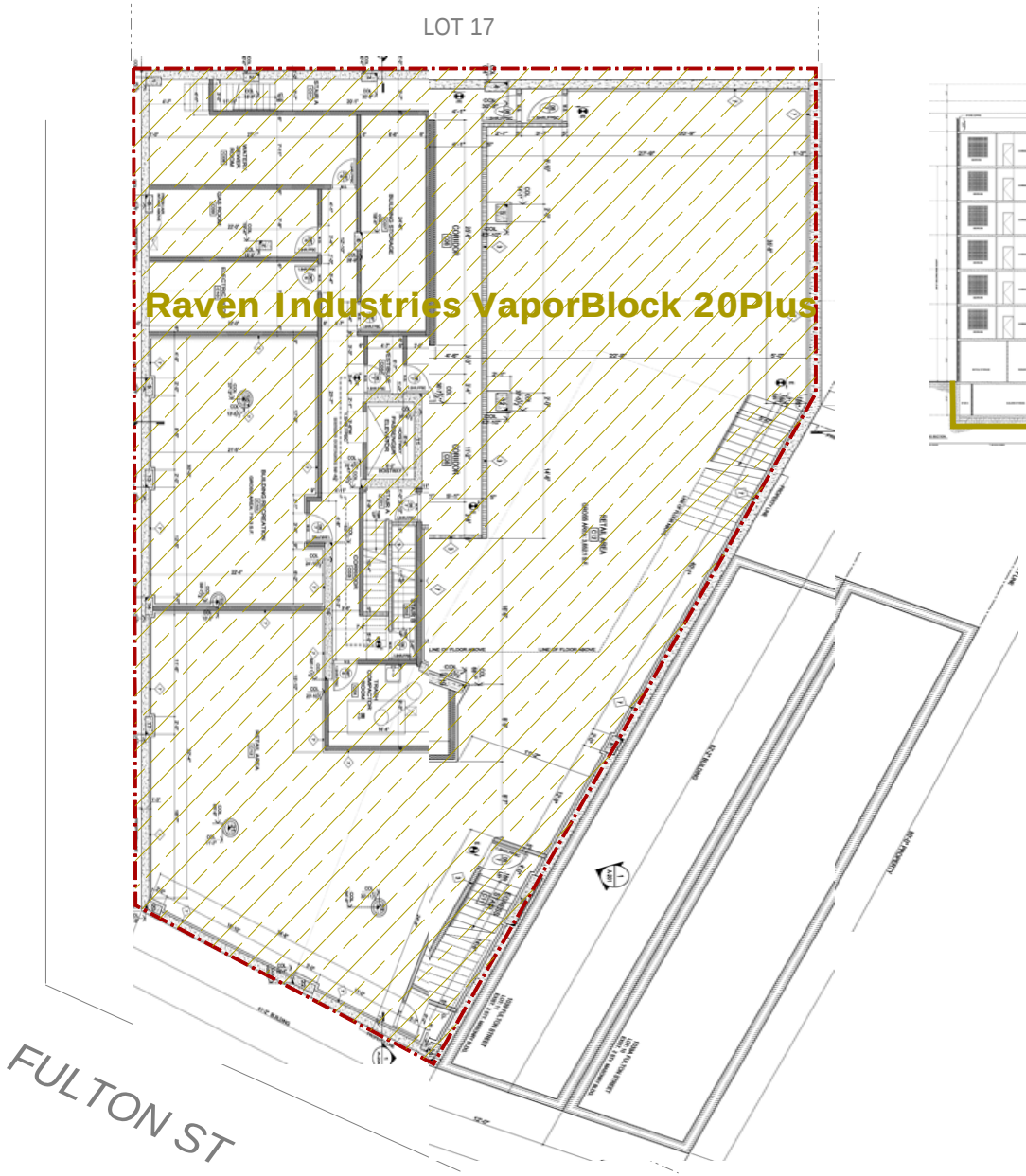
Site Name: REDEVELOPMENT PROJECT

Site Address: 1035 FULTON STREET, BROOKLYN, NY

Drawing Title: ENDPOINT SAMPLING DIAGRAM

Detail A





Detail B

SCALE

0 10 20

1 inch = 20 feet

KEY

Site Boundary

VaporBlock 20Plus

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Figure No. 7

Site Name: 1035 Fulton Street Brooklyn, NY

Site Address: 1035 Fulton Street Brooklyn, NY

Drawing Title: Vapor Barrier Plan

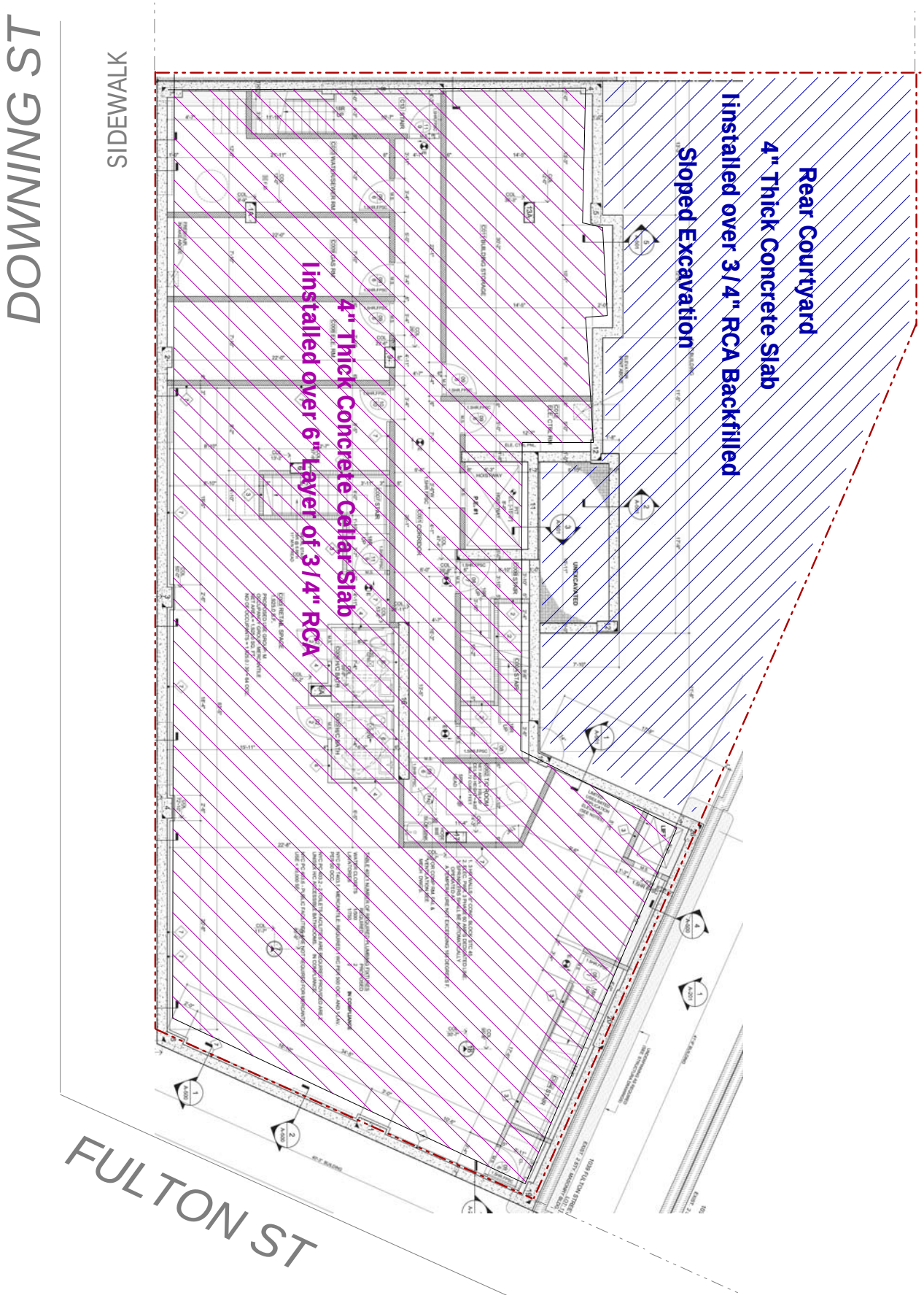

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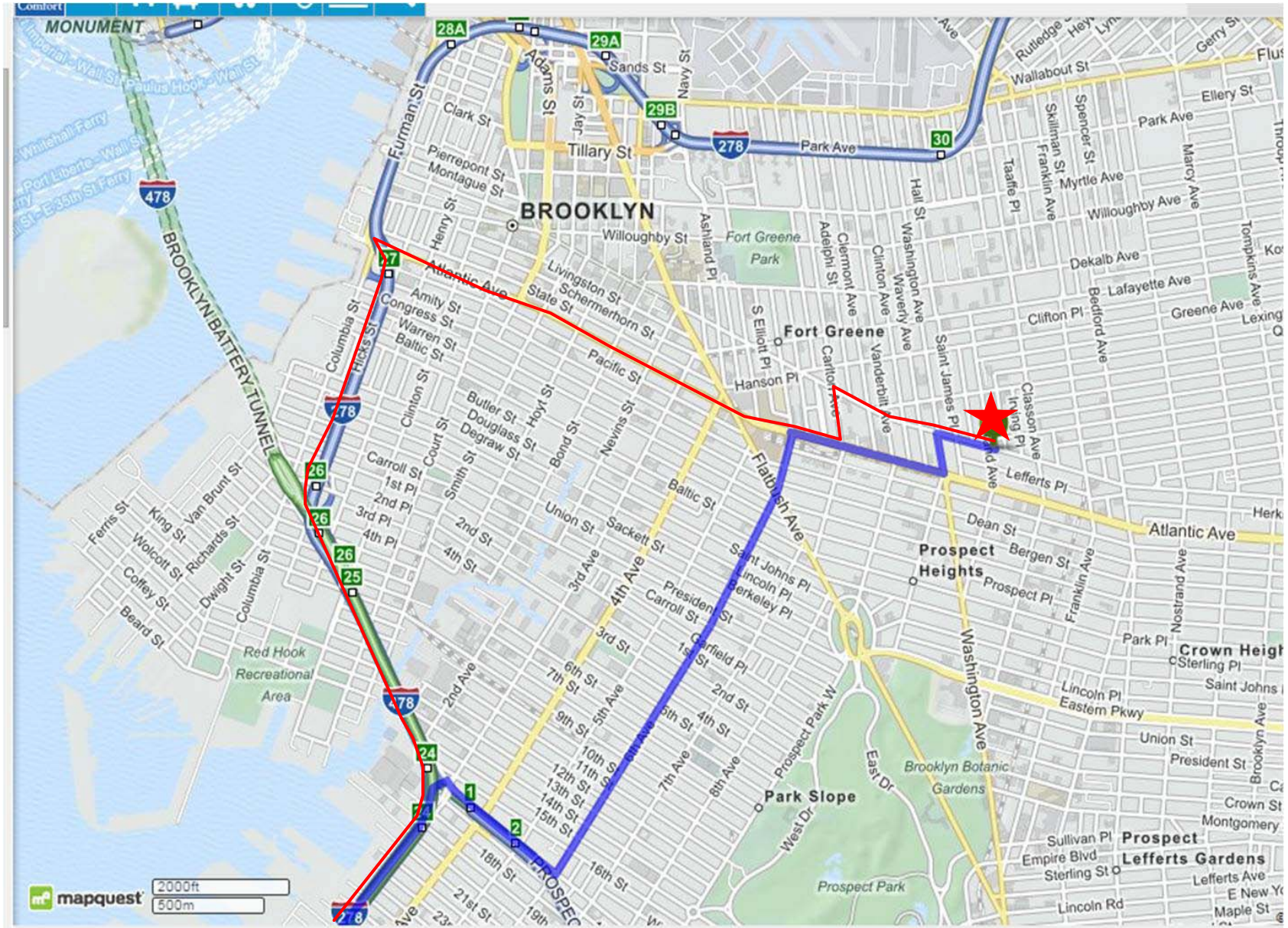
Figure No.
8

Site Name: Redevelopment Project
Site Address: 1035 Fulton Street, Brooklyn, NY
Drawing Title: Composite Cover Diagram



Key

Truck Route Leaving the Site

Truck Route to the Site

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Figure No. 9

Site Name: REDEVELOPMENT SITE

Site Address: 1035 FULTON STREET, BROOKLYN, NY

Drawing Title: TRUCK ROUTE MAP

APPENDIX A

Remedial Investigation Report

1035 FULTON STREET

BROOKLYN, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: 13CVCP157K
E-Designation Site Number: 13EH-N380K

Prepared for:
Fulton Hill Corner LLC
936 Fulton Street
Brooklyn, NY 11238

Prepared by:

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

1808 Middle Country Road
Ridge, NY 11961

June 2013

REMEDIAL INVESTIGATION REPORT
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ATTACHMENTS

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC BCP	New York City Brownfield Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Kristen DiScenza, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located at 1035 Fulton Street, Brooklyn, NY, (NYC VCP Site No. 13CVCP157K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Kristen DiScenza	7/11/13	
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 1035 Fulton Street in the Beford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lots 12, 13, 15, and 16 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,438-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 28 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the lot with a 7-story mixed use building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

The 7-story mixed use building and cellar will occupy the entire Site. The cellar will be used for commercial space, recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor will be used for commercial and residential space, residential lobby, and bicycle storage. The second through seventh floors will all be residential units.

The top of the cellar floor will be approximately 10 feet below sidewalk level, requiring excavation of the entire footprint of the lot to approximately 11 feet below grade, with additional for the elevator pit to approximately 15ft below sidewalk level.

Summary of Past Uses of Site and Areas of Concern

EBC was able to establish a site history for the property dating back to 1887. From approximately 1887 to 1973, the south portion of the Site was developed with a three story store and the northwest portion of the Site was occupied by a two story store/residential dwelling. Commercial tenants including a furniture dealer, a restaurant and a grocery store occupied the Site in the period from 1928 to 1960. From approximately 1973 (when a demolition permit was issued for the Site) to the present day the Site has been vacant land.

The AOCs identified for this Site include:

- Historic fill layer is present at the Site from grade to depths as great as 5 feet below grade

Summary of the Work Performed under the Remedial Investigation

Fulton Hill Corner LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality; and
3. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 75 feet.
2. Depth to bedrock is at the Site is greater than 100 feet.
3. The stratigraphy of the Site, from the surface down, consists of 5 feet of historic fill underlain by a native brown silty sand.
4. Soil/fill samples collected during the RI showed no VOCs or PCBs detected above Unrestricted Use SCOs. Seven SVOCs including benz(a)anthracene (max. of 6,900 µg/Kg), benzo(a)pyrene (max. of 5,900 µg/Kg), benzo(b)fluoranthene (max. of 7,500 µg/Kg), benzo(k)fluoranthene (max. of 2,800 µg/Kg), chrysene (max. of 7,300 µg/Kg), dibenz(a,h)anthracene (840 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,600 µg/Kg)

were detected above their respective Restricted Residential Use SCOs within three of the six shallow samples. Six of the seven SVOCs were also detected above Track 2 Restricted Residential Use SCOs in the duplicate sample. The SVOCs detected above Track 2 Restricted Residential Use SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Four pesticides, 4,4'-DDD (8.4 µg/Kg), 4,4'-DDE (max. of 14 µg/Kg), 4,4'-DDT (max. of 230 µg/Kg) and aldrin (6.4 µg/Kg) were detected above Unrestricted Use SCOs in four of the six shallow samples collected. All pesticide concentrations were well below Track 2 Restricted Residential SCOs. Three metals, including lead (max. of 513 µg/Kg), mercury (max. of 1.61 µg/Kg) and zinc (max. of 374 µg/Kg) exceeded Track 1 Unrestricted Use SCOs in all six shallow soil samples. Of these metals, lead and mercury also exceeded Track 2 Restricted Residential SCOs in three of the six samples. Chromium was detected above Track 1 Unrestricted Use SCOs in the duplicate sample, however, the compound was not detected above Track 1 Unrestricted Use SCOs in any other sample. Lead and mercury were also detected above RRSCOs in the duplicate sample. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Track 1 Unrestricted Use SCOs within any of the six deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

5. Soil vapor samples collected during the RI showed chlorinated and petroleum VOCs at low concentrations. Tetrachloroethylene (PCE) was detected in all four soil vapor samples at a maximum concentration of 3.18 $\mu g/m^3$ and carbon tetrachloride was detected in all four samples at a maximum concentration of 0.314 $\mu g/m^3$. Trichloroethene (TCE) and 1,1,1-TCA were not detected in any of the four samples. The PCE and carbon tetrachloride concentrations are well below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from approximately 38.96 $\mu g/m^3$ to 94.44 $\mu g/m^3$. Overall, the highest reported concentrations were for acetone (234 $\mu g/m^3$) and ethanol (175 $\mu g/m^3$).

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REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Fulton Hill Corner LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.15-acre Site located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York. Mixed residential and commercial use is proposed for the property. The RI work was performed between May 15, 2013 , and May 29, 2013. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lots 12, 13, 15, and 16 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,438-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 28 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the lot with a 7-story mixed use building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

The 7-story mixed use building and cellar will occupy the entire Site. The cellar will be used for commercial space, recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor will be used for commercial and residential space,

residential lobby, and bicycle storage. The second through seventh floors will all be residential units.

The top of the cellar floor will be approximately 10 feet below sidewalk level, requiring excavation of the entire footprint of the lot to approximately 11 feet below grade, with additional for the elevator pit to approximately 15ft below sidewalk level.

1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and commercial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	Block 1992, Lot 17 (99 Downing Street) – Developed with a multi-story residential building.
South – Opposite side of Fulton Street	Block 2015, Lots 21, 22, and 23 (1004 through 1008 Fulton Street) – Lots 21 and 22 are developed with multi-story mixed use residential/commercial buildings. Lot 23 is a 19.5 ft by 102 ft parking lot.
East – Adjacent property	Block 1992, Lot 11 (1039 Fulton Street) – Developed with a multi-story residential building.
West – Opposite side of Downing Street	Block 1991, Lot 1 (1029 Fulton Street) – A 2,190 square foot undeveloped uncapped lot.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

EBC was able to establish a site history for the property dating back to 1887. From approximately 1887 to 1973, the south portion of the Site was developed with a three story store and the northwest portion of the Site was occupied by a two story store/residential dwelling. Commercial tenants including a furniture dealer, a restaurant and a grocery store occupied the Site in the period from 1928 to 1960. From approximately 1973 (when a demolition permit was issued for the Site) to the present day the Site has been vacant land.

2.2 Previous Investigations

EBC has not been made aware of any previous subsurface investigations conducted at the Site.

2.3 Site Inspection

Mr. Kevin Waters of EBC performed the site inspection on May 15, 2013, beginning at approximately 9:30 am. The reconnaissance included a visual inspection of the Site, the sidewalk immediately in front of the Site, and the exterior of adjacent properties. At the time of the inspection, the Site consisted of an undeveloped/vacant lot. A chain link fence secured the west and south sides of the Site.

2.4 Areas of Concern

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 5 feet below grade.

A copy of the Phase 1 Report is presented in Attachment A.

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3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kristen DiScenza.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

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4.0 REMEDIAL INVESTIGATION ACTIVITIES

EBC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality; and
3. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

On May 15, 2013, six soil borings (SB1 through SB6) were performed in the approximate locations shown on Figure 5. The six soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. For each of the six soil borings, soil samples were collected continuously from grade to a final depth of 15 feet below existing grade using a five-soot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were obtained from any of the soil borings.

One soil sample was retained from each borings representing the interval 0 to 2 feet below grade and one soil sample was retained from each soil boring representing the interval 12 to 14 feet below grade.

Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified Environmental Professional and are attached in Attachment B.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Thirteen soil samples (two from each boring and one duplicate) were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2 through 5. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

The thirteen soil samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and target analyte list (TAL) metals.

Groundwater Sampling

Groundwater samples were not obtained during this investigation. Several attempts were made to collect groundwater samples across the site, drilling activities were terminated at depths ranging from 60 to 65 feet below grade. The groundwater table was not encountered.

Soil Vapor Sampling

Four soil vapor probes were installed and four soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample

collection data is reported in Table 6. Soil vapor sampling logs are included in Attachment C. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

The four soil vapor implants were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor implants is shown on Figure 5. The vapor implants that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The implants were installed to a depth of 12 feet below grade at all locations. Each implant was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling for the four implants installed on May 15, 3013, was conducted on May 29, 2013. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all four soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the four vapor implants. Prior to initiating sample collection, sample

identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas Sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (Attachment D). Samples were submitted to Phoenix for laboratory analysis of VOCs EPA Method TO-15.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000);

	Soil vapor analytical methods: • VOCs by TO-15 VOC parameters..

Results of Chemical Analyses

Laboratory data for soil and soil vapor are summarized in Tables 2 through 6, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Attachment D.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of brick, concrete, wood and other debris in a brown silty-sand matrix. The layer of historic fill extended to a depth ranging from ground surface to approximately 5 feet below grade. Native soil consisting of a brown sand is present below the historic fill layer.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 5. Results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. A copy of the laboratory report is provided in Attachment D. Figure 6 shows the location and posts the values for soil/fill that exceeds UUSCOs and RRSCOs.

Soil/fill samples collected during the RI showed that VOCs were not detected except for low levels of naphthalene (46 ppb) in one of thirteen soil samples. Napthathalene concentrations were well below the Unrestricted Use SCOs. PCBs were not detected in any soil sample. Seven SVOCs including benz(a)anthracene (max. of 6,900 µg/Kg), benzo(a)pyrene (max. of 5,900 µg/Kg), benzo(b)fluoranthene (max. of 7,500 µg/Kg), benzo(k)fluoranthene (max. of 2,800 µg/Kg), chrysene (max. of 7,300 µg/Kg), dibenz(a,h)anthracene (840 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,600 µg/Kg) were detected above their respective Restricted Residential Use SCOs within three of the six shallow samples. The SVOCs detected above Track 2 Restricted Residential Use SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Five pesticides, 4,4'-DDD (8.4 µg/Kg), 4,4'-DDE (max. of 14 µg/Kg), 4,4'-DDT (max. of 230 µg/Kg), aldrin (6.4 µg/Kg) and chlordane (max. of 170 µg/Kg) were detected above Unrestricted Use SCOs in four of the six shallow samples collected. All pesticide concentrations were well below Track 2 Restricted Residential SCOs. Four metals, including chromium (max. of 35 µg/Kg), lead (max.

of 513 µg/Kg), mercury (max. of 1.61 µg/Kg) and zinc (max. of 374 µg/Kg) exceeded Track 1 Unrestricted Use SCOs in all six shallow soil samples. Of these metals, lead and mercury also exceeded Track 2 Restricted Residential SCOs in three of the six samples. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Track 1 Unrestricted Use SCOs within any of the six deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

5.3 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 6.

Figure 7 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor samples collected during the RI showed chlorinated and petroleum VOCs at low concentrations. Tetrachloroethylene (PCE) was detected in all four soil vapor samples at a maximum concentration of 3.18 $\mu g/m^3$ and carbon tetrachloride was detected in all four samples at a maximum concentration of 0.314 $\mu g/m^3$. Trichloroethene (TCE) and 1,1,1-TCA were not detected in any of the four samples. The PCE and carbon tetrachloride concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from approximately 39 $\mu g/m^3$ to 94 $\mu g/m^3$. Overall, the highest reported concentrations were for acetone (234 $\mu g/m^3$) and ethanol (175 $\mu g/m^3$).

5.4 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.5 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

TABLES

Table 1
1035 Fulton Street, Brooklyn, New York
Soil Boring Information

Boring/Well No.	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)
SB1	5/15/2013	15	2			-
SB2	5/15/2013	15	2			-
SB3	5/15/2013	15	2			-
SB4	5/15/2013	15	2			-
SB5	5/15/2013	15	2			-
SB6	5/15/2013	15	2			-

TABLE 2
1035 Fulton Street,
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				SB4				SB5				SB6				Duplicate	
			(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,1,1-Trichloroethane	680	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,1,2,2-Tetrachloroethane			ND	2.9	ND	3.6	ND	3.8	ND	2.2	ND	4.3	ND	4.4	ND	5.7	ND	3.4	ND	3.1	ND	3.3	ND	5.6	ND	3.4	ND	2.2
1,1,2-Trichloroethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,1-Dichloroethane	270	26,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,1-Dichloroethene	330	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,1-Dichloropropene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2,3-Trichlorobenzene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2,3-Trichloropropane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2,4-Trichlorobenzene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2,4-Trimethylbenzene	3,600	52,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2-Dibromo-3-chloropropane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2-Dichlorobenzene	1,100	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2-Dichloroethane	20	3,100	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,2-Dichloropropane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,3,5-Trimethylbenzene	8,400	52,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,3-Dichlorobenzene	2,400	4,900	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,3-Dichloropropane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
1,4-Dichlorobenzene	1,800	13,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
2,2-Dichloropropane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
2-Chlorotoluene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
2-Hexanone (Methyl Butyl Ketone)			ND	24	ND	30	ND	31	ND	18	ND	36	ND	36	ND	47	ND	28	ND	26	ND	28	ND	28	ND	29	ND	19
2-Isopropyltoluene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
4-Chlorotoluene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
4-Methyl-2-Pentanone			ND	24	ND	30	ND	31	ND	18	ND	36	ND	36	ND	47	ND	28	ND	26	ND	28	ND	28	ND	29	ND	19
Acetone	50	100,000	ND	49	ND	36	ND	38	ND	37	ND	43	ND	44	ND	47	ND	28	ND	31	ND	33	ND	28	ND	34	ND	22
Acrylonitrile			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	11	ND	5.7	ND	3.7
Benzene	60	4,800	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Bromobenzene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Bromochloromethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Bromodichloromethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Bromoform			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Bromomethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Carbon Disulfide			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Carbon tetrachloride	760	2,400	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Chlorobenzene	1,100	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Chloroethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Chloroform	370	49,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Chloromethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
cis-1,2-Dichloroethene	250	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
cis-1,3-Dichloropropene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Dibromochloromethane			ND	2.9	ND	3.6	ND	3.8	ND	2.2	ND	4.3	ND	4.4	ND	5.7	ND	3.4	ND	3.1	ND	3.3	ND	5.6	ND	3.4	ND	2.2
Dichlorodifluoromethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Ethylbenzene	1,000	41,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Hexachlorobutadiene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Isopropylbenzene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
m&p-Xylenes	260	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Methyl Ethyl Ketone (2-Butanone)	120	100,000	ND	29	ND	36	ND	38	ND	22	ND	43	ND	44	ND	57	ND	34	ND	31	ND	33	ND	28	ND	34	ND	22
Methyl t-butyl ether (MTBE)	930	100,000	ND	9.8	ND	12	ND	13	ND	7.4	ND	14	ND	15	ND	19	ND	11	ND	10	ND	11	ND	11	ND	11	ND	7.4
Methylene chloride	50	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Naphthalene	12,000	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	**46**	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
n-Butylbenzene	12,000	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
n-Propylbenzene	3,900	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
o-Xylene	260	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
p-Isopropyltoluene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
sec-Butylbenzene	11,000	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Styrene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
tert-Butylbenzene	5,900	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Tetrachloroethene	1,300	19,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Tetrahydrofuran (THF)			ND	9.8	ND	12	ND	13	ND	7.4	ND	14	ND	15	ND	19	ND	11	ND	10	ND	11	ND	11	ND	11	ND	7.4
Toluene	700	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Total Xylenes			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
trans-1,2-Dichloroethene	190	100,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
trans-1,3-Dichloropropene			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
trabs-1,4-dichloro-2-butene			ND	9.8	ND	12	ND	13	ND	7.4	ND	14	ND	15	ND	19	ND	11	ND	10	ND	11	ND	11	ND	11	ND	7.4
Trichloroethene	470	21,000	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Trichlorofluoromethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Trichlorotrifluoroethane			ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Vinyl Chloride	20	900	ND	4.9	ND	6.1	ND	6.3	ND	3.7	ND	7.1	ND	7.3	ND	9.5	ND	5.7	ND	5.1	ND	5.5	ND	5.6	ND	5.7	ND	3.7
Total BTEX Concentration			**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	
Total VOCs Concentration			**0.0**		**0.0**		**0.0**		**0.0**		**46**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
ND - Not-detected
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
1035 Fulton Street,
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				SB4				SB5				SB6				Duplicate	
			(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
1,2,4-Trichlorobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
1,2-Dichlorobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
1,2-Diphenylhydrazine			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
1,3-Dichlorobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
1,4-Dichlorobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2,4,5-Trichlorophenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2,4,6-Trichlorophenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2,4-Dichlorophenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2,4-Dimethylphenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2,4-Dinitrophenol			ND	1100	ND	550	ND	590	ND	570	ND	3,000	ND	530	ND	1,200	ND	550	ND	580	ND	550	ND	2,900	ND	530	ND	2900
2,4-Dinitrotoluene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2,6-Dinitrotoluene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2-Chloronaphthalene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2-Chlorophenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2-Methylnaphthalene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	550	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2-Methylphenol (o-cresol)	330	100,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
2-Nitroaniline			ND	1100	ND	550	ND	590	ND	570	ND	3,000	ND	530	ND	1,200	ND	550	ND	580	ND	550	ND	2,900	ND	530	ND	2900
2-Nitrophenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
3&4-Methylphenol (m&p-cresol)			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
3,3'-Dichlorobenzidine			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
3-Nitroaniline			ND	1100	ND	550	ND	590	ND	570	ND	3,000	ND	530	ND	1,200	ND	550	ND	580	ND	550	ND	2,900	ND	530	ND	2900
4,6-Dinitro-2-methylphenol			ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,400	ND	970	ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,300	ND	960	ND	5300
4-Bromophenyl phenyl ether			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
4-Chloro-3-methylphenol			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
4-Chloroaniline			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
4-Chlorophenyl phenyl ether			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
4-Nitroaniline			ND	1100	ND	550	ND	590	ND	570	ND	3,000	ND	530	ND	1,200	ND	550	ND	580	ND	550	ND	2,900	ND	530	ND	2900
4-Nitrophenol			ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,400	ND	970	ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,300	ND	960	ND	5300
Acenaphthene	20,000	100,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**1,300**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Acenaphthylene	100,000	100,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**850**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	**2,000**	1300
Acetophenone			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Aniline			ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,400	ND	970	ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,300	ND	960	ND	5300
Anthracene	100,000	100,000	**590**	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**2,900**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	**3,200**	1300
Benz(a)anthracene	1,000	1,000	**1,700**	500	ND	240	**860**	260	ND	250	**3,400**	1,300	ND	230	**6,900**	510	ND	240	**750**	260	ND	240	ND	1,300	ND	230	**11,000**	1300
Benzidine			ND	860	ND	410	ND	440	ND	430	ND	2,200	ND	400	ND	880	ND	410	ND	440	ND	410	ND	2,200	ND	400	ND	2200
Benzo(a)pyrene	1,000	1,000	**1,500**	500	ND	240	**710**	260	ND	250	**2,900**	1,300	ND	230	**5,900**	510	ND	240	**650**	260	ND	240	ND	1,300	ND	230	**10,000**	1300
Benzo(b)fluoranthene	1,000	1,000	**2,100**	500	ND	240	**1,000**	260	ND	250	**4,000**	1,300	ND	230	**7,500**	510	ND	240	**840**	260	ND	240	ND	1,300	ND	230	**15,000**	1300
Benzo(ghi)perylene	100,000	100,000	**530**	500	ND	240	**440**	260	ND	250	**1,600**	1,300	ND	230	**2,700**	510	ND	240	**370**	260	ND	240	ND	1,300	ND	230	**3,300**	1300
Benzo(k)fluoranthene	800	1,000	**610**	500	ND	240	**280**	260	ND	250	ND	1,300	ND	230	**2,800**	510	ND	240	**330**	260	ND	240	ND	1,300	ND	230	**4,800**	1300
Benzoic acid			ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,400	ND	970	ND	2,100	ND	990	ND	1,100	ND	1,000	ND	5,300	ND	960	ND	5300
Benzyl butyl phthalate			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Bis(2-chloroethoxy)methane			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Bis(2-chloroethyl)ether			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
Bis(2-chloroisopropyl)ether			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Bis(2-ethylhexyl)phthalate			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	**11,000**	1,300	ND	230	ND	1300
Carbazole			ND	1100	ND	510	ND	550	ND	540	ND	2,800	ND	500	**2,400**	1,100	ND	510	ND	550	ND	520	ND	2,700	ND	500	**4,700**	2700
Chrysene	1,000	1,000	**1,800**	500	ND	240	**870**	260	ND	250	**3,400**	1,300	ND	230	**7,300**	510	ND	240	**870**	260	ND	240	ND	1,300	ND	230	**13,000**	1300
Dibenz(a,h)anthracene	330	330	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**840**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Dibenzofuran	7,000	59,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**1,500**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Diethyl phthalate			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Dimethylphthalate			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Di-n-butylphthalate			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Di-n-octylphthalate			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Fluoranthene	100,000	100,000	**3,600**	500	ND	240	**1,700**	260	ND	250	**7,400**	1,300	ND	230	**13,000**	510	ND	240	**1,700**	260	ND	240	**1,600**	1,300	ND	230	**21,000**	1300
Fluorene	30,000	100,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**2,000**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	**1,700**	1300
Hexachlorobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Hexachlorobutadiene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Hexachlorocyclopentadiene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Hexachloroethane			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Indeno(1,2,3-cd)pyrene	500	500	ND	500	ND	240	**350**	260	ND	250	**1,400**	1,300	ND	230	**2,600**	510	ND	240	**320**	260	ND	240	ND	1,300	ND	230	**3,300**	1300
Isophorone			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Naphthalene	12,000	100,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	**650**	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Nitrobenzene			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
N-Nitrosodimethylamine			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
N-Nitrosodi-n-propylamine			ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
N-Nitrosodiphenylamine			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
Pentachloronitrobenzene			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
Pentachlorophenol	800	2,400	ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800
Phenanthrene	100,000	100,000	**2,400**	500	ND	240	**1,100**	260	ND	250	**4,800**	1,300	ND	230	**12,000**	510	ND	240	**1,400**	260	ND	240	ND	1,300	ND	230	**16,000**	1300
Phenol	330	100,000	ND	500	ND	240	ND	260	ND	250	ND	1,300	ND	230	ND	510	ND	240	ND	260	ND	240	ND	1,300	ND	230	ND	1300
Pyrene	100,000	100,000	**3,300**	500	ND	240	**1,600**	260	ND	250	**6,700**	1,300	ND	230	**11,000**	510	ND	240	**1,500**	260	ND	240	**1,500**	1,300	ND	230	**18,000**	1300
Pyridine			ND	720	ND	340	ND	370	ND	360	ND	1,900	ND	330	ND	730	ND	340	ND	370	ND	350	ND	1,800	ND	330	ND	1800

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
1035 Fulton Street,
Brooklyn, New York
Soil Analytical Results
Pesticides PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				SB4				SB5				SB6				Duplicate	
			(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	3.3	2,600	ND*	11	ND	2	ND	2.1	ND	2.2	ND*	11	ND	2	ND*	11	ND	2	**8.4**	7	ND	2.1	ND*	11	ND	2	ND*	11
4,4' -DDE	3.3	1,800	ND*	11	ND	2	**9.8**	2.1	ND	2.2	ND*	11	ND	2	ND*	11	ND	2	**14**	7	ND	2.1	ND*	11	ND	2	ND*	11
4,4' -DDT	3.3	1,700	ND*	11	ND	2	**13**	2.1	ND	2.2	**30**	11	ND	2	ND*	11	ND	2	**230**	35	ND	2.1	ND*	11	ND	2	ND*	11
a-BHC	20	97	ND*	17	ND	3.3	ND	3.4	ND	3.5	ND*	18	ND	3.2	ND*	18	ND	3.3	ND	3.5	ND	3.3	ND*	18	ND	3.2	ND*	17
Alachlor			ND*	17	ND	3.3	ND	3.4	ND	3.5	ND*	18	ND	3.2	ND*	18	ND	3.3	ND	3.5	ND	3.3	ND*	18	ND	3.2	ND*	17
Aldrin	5	19	**6.4**	5.3	ND	1	ND	1.1	ND	1.1	ND*	5.6	ND	1	ND*	5	ND	1	ND	1.1	ND	1	ND*	5.5	ND	1	ND*	5.4
b-BHC	36	72	ND*	17	ND	3.3	ND	3.4	ND	3.5	ND*	18	ND	3.2	ND*	18	ND	3.3	ND	3.5	ND	3.3	ND*	18	ND	3.2	ND*	17
Chlordane			**170**	53	ND	10	**75**	11	ND	11	**90**	56	ND	10	**130**	55	ND	10	**40**	11	ND	10	**75**	55	ND	10	ND*	54
d-BHC	40	100,000	ND*	17	ND	3.3	ND	3.4	ND	3.5	ND*	18	ND	3.2	ND*	18	ND	3.3	ND	3.5	ND	3.3	ND*	18	ND	3.2	ND*	17
Dieldrin	5	39	ND*	5.3	ND	1	ND	1.1	ND	1.1	ND*	5.6	ND	1	ND*	9.2	ND	1	**5**	1.1	ND	1	ND*	5.5	ND	1	ND*	5.4
Endosulfan I	2,400	4,800	ND*	17	ND	3.3	ND	3.4	ND	3.5	ND*	18	ND	3.2	ND*	18	ND	3.3	ND	3.5	ND	3.3	ND*	18	ND	3.2	ND*	17
Endosulfan II	2,400	4,800	ND*	34	ND	6.6	ND	6.8	ND	7	ND*	36	ND	6.5	ND*	35	ND	6.6	ND	7	ND	6.7	ND*	35	ND	6.5	ND*	34
Endosulfan sulfate	2,400	4,800	ND*	34	ND	6.6	ND	6.8	ND	7	ND*	36	ND	6.5	ND*	35	ND	6.6	ND	7	ND	6.7	ND*	35	ND	6.5	ND*	34
Endrin	14	2,200	ND*	34	ND	6.6	ND	6.8	ND	7	ND*	36	ND	6.5	ND*	35	ND	6.6	ND	7	ND	6.7	ND*	35	ND	6.5	ND*	34
Endrin aldehyde			ND*	34	ND	6.6	ND	6.8	ND	7	ND*	36	ND	6.5	ND*	35	ND	6.6	ND	7	ND	6.7	ND*	35	ND	6.5	ND*	34
Endrin ketone			ND*	34	ND	6.6	ND	6.8	ND	7	ND*	36	ND	6.5	ND*	35	ND	6.6	ND	7	ND	6.7	ND*	35	ND	6.5	ND*	34
g-BHC	100	280	ND*	5.3	ND	1	ND	1.1	ND	1.1	ND*	5.6	ND	1	ND*	5.5	ND	1	ND	1.1	ND	1	ND*	5.5	ND	1	ND*	5.4
Heptachlor	42	420	ND*	11	ND	2	ND	2.1	ND	2.2	ND*	11	ND	2	ND*	11	ND	2	ND	2.2	ND	2.1	ND*	11	ND	2	ND*	11
Heptachlor epoxide			ND*	17	ND	3.3	ND	3.4	ND	3.5	ND*	18	ND	3.2	ND*	18	ND	3.3	ND	3.5	ND	3.3	ND*	18	ND	3.2	ND*	17
Methoxychlor			ND*	170	ND	33	ND	34	ND	35	ND*	180	ND	32	ND*	180	ND	33	ND	35	ND	33	ND*	180	ND	32	ND*	170
Toxaphene			ND*	170	ND	33	ND	34	ND	35	ND*	180	ND	32	ND*	180	ND	33	ND	35	ND	33	ND*	180	ND	32	ND*	170
PCB-1016	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1221	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1232	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1242	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1248	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1254	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1260	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1262	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72
PCB-1268	100	1,000	ND	71	ND	69	ND	71	ND	73	ND	75	ND	68	ND	74	ND	68	ND	73	ND	70	ND	74	ND	67	ND	72

Notes:

* Due to matrix interference from non target compounds in the sample an elevated RL was reported.

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Non-Detect

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 5
1035 Fulton Street,
Brooklyn, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				SB4				SB5				SB6				Duplicate	
			(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		(0-2') µg/Kg		(12-14') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			7,760	55	3,370	53	9,300	54	8,010	58	8,120	55	3,440	46	7,850	54	7,670	48	5,350	54	7,540	55	7,350	59	4,310	50	7,830	57
Antimony			BRL	3.7	BRL	3.6	BRL	3.6	BRL	3.9	BRL	3.7	BRL	3.1	BRL	3.6	BRL	3.2	BRL	3.6	BRL	3.7	BRL	4	BRL	3.3	BRL	3.8
Arsenic	13	16	4.2	0.7	0.9	0.7	6.3	0.7	1.6	0.8	5.2	0.7	1.4	0.6	4.7	0.7	2.1	0.6	3.9	0.7	1.7	0.7	4.4	0.8	1.1	0.7	9	0.8
Barium	350	350	108	0.37	20.3	0.36	160	0.36	33.4	0.39	184	0.37	25.4	0.31	118	0.36	41.6	0.32	91.7	0.36	49	0.37	80.7	0.4	30.6	0.33	323	0.38
Beryllium	7.2	14	0.41	0.29	BRL	0.28	0.46	0.29	0.43	0.31	0.42	0.3	BRL	0.25	0.48	0.29	0.44	0.26	BRL	0.29	0.37	0.29	0.35	0.32	BRL	0.27	0.42	0.3
Cadmium	2.5	2.5	0.6	0.37	BRL	0.36	0.66	0.36	0.41	0.39	1.45	0.37	BRL	0.31	0.56	0.36	0.43	0.32	0.49	0.36	BRL	0.37	.5	0.4	0.38	0.33	1.77	0.38
Calcium			41,800	55	589	5.3	23,800	54	808	5.8	36,600	55	1,110	4.6	48,600	54	1,470	4.8	10,300	5.4	1,240	5.5	43,700	59	1,320	5	5,370	5.7
Chromium	30		19.5	0.37	7.49	0.36	19.5	0.36	29.7	0.39	20.9	0.37	10.9	0.31	24.9	0.36	19	0.32	13.4	0.36	20.6	0.37	18.9	0.4	15.6	0.33	34.9	0.38
Cobalt			5.42	0.37	2.98	0.36	6.38	0.36	7.12	0.39	5.88	0.37	5	0.31	5.15	0.36	6.96	0.32	3.44	0.36	4.54	0.37	4.26	0.4	9.26	0.33	8.1	0.38
Copper	50	270	32.3	0.37	6.73	0.36	39.7	0.36	34.7	0.39	44.4	0.37	12.1	0.31	40.9	0.36	36.4	0.32	23.1	0.36	19.2	0.37	24	0.4	14.1	0.33	57.1	0.38
Iron			21,600	55	7,940	5.3	20,900	54	26,600	58	21,100	55	21,100	46	14,700	54	24,300	48	12,700	54	20,200	55	18,100	59	25,600	50	38,900	57
Lead	63	400	124	0.37	2.37	0.36	238	3.6	37.8	0.39	462	3.7	4.13	0.31	143	0.36	9.54	0.32	199	3.6	5.21	0.37	513	4	4.3	0.33	869	3.8
Magnesium			8,670	55	1,060	5.3	3,860	5.4	2,180	5.8	4,140	5.5	1,410	4.6	5,270	5.4	3,110	4.8	2,200	5.4	4,260	5.5	7,950	59	1,990	5	2,380	5.7
Manganese	1,600	2,000	321	3.7	227	3.6	351	3.6	456	3.9	355	3.7	401	3.1	254	3.6	467	3.2	205	3.6	255	3.7	302	4	420	3.3	410	3.8
Mercury	0.18	0.81	0.14	0.08	BRL	0.07	1.61	0.08	BRL	0.06	0.17	0.07	BRL	0.06	0.27	0.08	BRL	0.06	0.37	0.08	BRL	0.08	0.23	0.07	BRL	0.07	1.47	0.06
Nickel	30	140	18	0.37	8.53	0.36	20	0.36	18.3	0.39	18.5	0.37	11	0.31	21.6	0.36	25.8	0.32	14.3	0.36	18	0.37	14.4	0.4	18.8	0.33	27	0.38
Potassium			1,560	5.5	564	5.3	1,260	5.4	857	5.8	1,480	5.5	543	4.6	1,540	5.4	1,610	4.8	827	5.4	2,040	5.5	1,430	5.9	1,040	5	841	5.7
Selenium	3.9	36	BRL	1.5	BRL	1.4	BRL	1.4	BRL	1.5	BRL	1.5	BRL	1.2	BRL	1.4	BRL	1.3	BRL	1.4	BRL	1.5	BRL	1.6	BRL	1.3	BRL	1.5
Silver	2	36	BRL	0.37	BRL	0.36	BRL	0.36	BRL	0.39	BRL	0.37	BRL	0.31	BRL	0.36	BRL	0.32	BRL	0.36	BRL	0.37	BRL	0.4	BRL	0.33	BRL	0.38
Sodium			399	5.5	76.5	5.3	417	5.4	76.5	5.8	716	5.5	63.3	4.6	435	5.4	156	4.8	162	5.4	205	5.5	709	5.9	84.4	5	103	57
Thallium			BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.5	BRL	0.6	BRL	0.5	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.5	BRL	0.6
Vanadium			34	0.37	10.6	0.36	27.8	0.36	30.3	0.39	29.6	0.37	21.1	0.31	26.9	0.36	25.4	0.32	16.2	0.36	29.8	0.37	25.6	0.4	29.8	0.33	24	0.38
Zinc	109	2,200	140	0.37	13.4	0.36	239	3.6	44.9	0.39	374	3.7	18.7	0.31	143	0.36	53.3	0.32	109	0.36	30.5	0.37	82.4	0.4	20	0.33	563	3.8

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BRL - Below Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

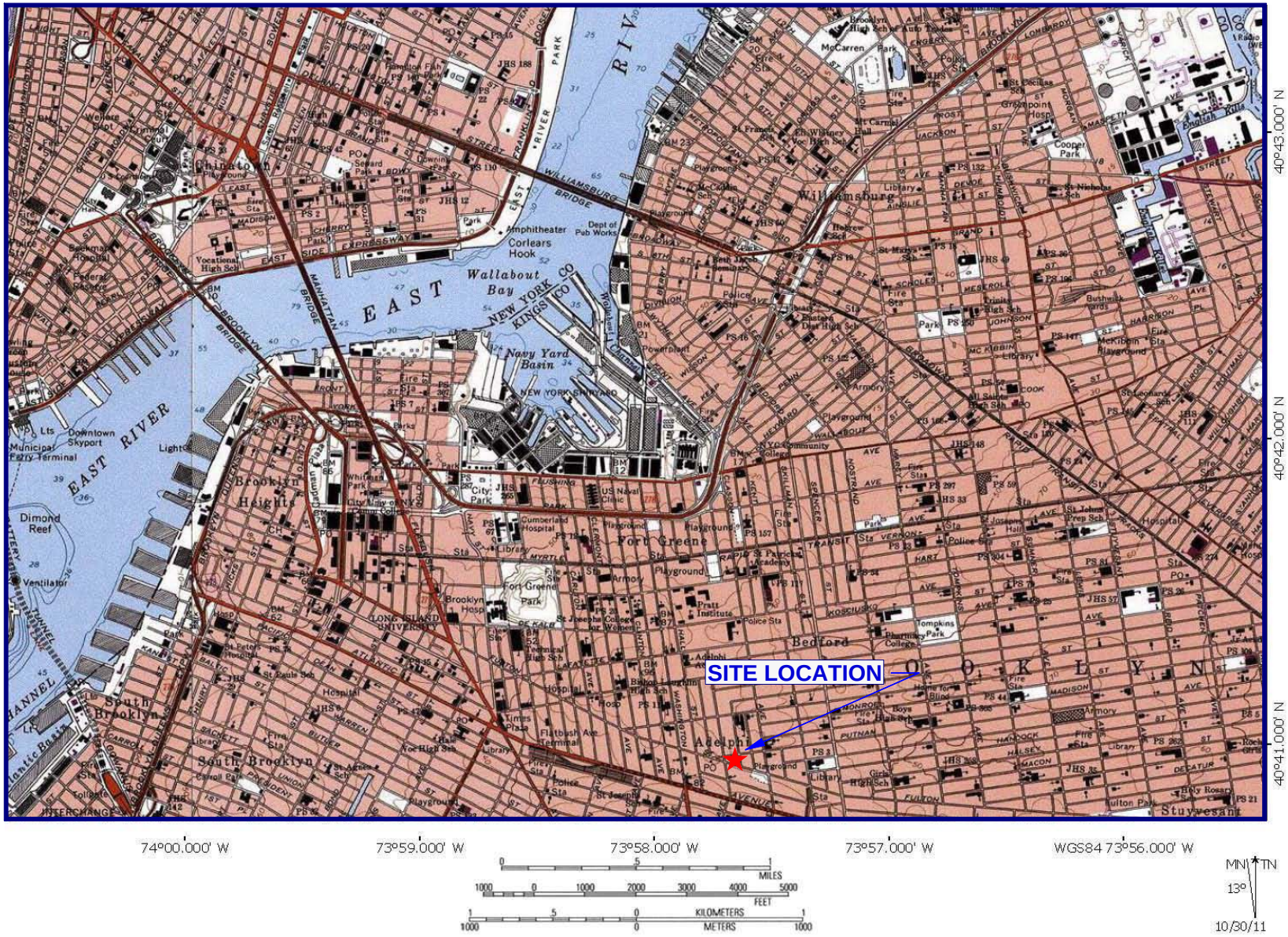
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 6
1035 Fulton Street,
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value (µg/m³) [a]	NYSDOH Soil Outdoor Background Levels (µg/m³) [b]	SG-1 (µg/m3)		SG-2 (µg/m3)		SG-3 (µg/m3)		SG-4 (µg/m3)	
			Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			ND	1	ND	1	ND	1	ND	1
1,1,1-Trichloroethane	100	<2.0 - 2.8	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane		<1.5	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloroethane		<1.0	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane		<1.0	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene		<1.0	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene		NA	ND	1	ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene		<1.0	**4.57**	1	**6.93**	1	**4.72**	1	**7.02**	1
1,2-Dibromoethane		<1.5	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene		<2.0	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane		<1.0	ND	1	ND	1	ND	1	ND	1
1,2-Dichloropropane			ND	1	ND	1	ND	1	ND	1
1,2-Dichlorotetrafluoroethane			ND	1	ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene		<1.0	**1.52**	1	**2.11**	1	**1.47**	1	**2.46**	1
1,3-Butadiene		NA	ND	1	ND	1	ND	1	ND	1
1,3-Dichlorobenzene		<2.0	**9.97**	1	**14.1**	1	**10.6**	1	**13.3**	1
1,4-Dichlorobenzene		NA	ND	1	ND	1	ND	1	ND	1
1,4-Dioxane			ND	1	ND	1	ND	1	ND	1
2-Hexanone			ND	1	**26**	1	ND	1	ND	1
4-Ethyltoluene		NA	**1.03**	1	**1.23**	1	**1.08**	1	**1.96**	1
4-Isopropyltoluene			ND	1	ND	1	ND	1	ND	1
4-Methyl-2-pentanone			**4.13**	1	**3.72**	1	**2.7**	1	**3.85**	1
Acetone		NA	**152**	1	**202**	1	**118**	1	**234**	1
Acrylonitrile			ND	1	ND	1	ND	1	ND	1
Benzene		<1.6 - 4.7	**1.66**	1	**1.34**	1	**1.56**	1	**3.64**	1
Benzyl Chloride		NA	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane		<5.0	ND	1	ND	1	ND	1	**1.14**	1
Bromoform		<1.0	ND	1	ND	1	ND	1	ND	1
Bromomethane		<1.0	ND	1	ND	1	ND	1	ND	1
Carbon Disulfide		NA	**3.67**	1	**8.59**	1	**4.01**	1	**9.46**	1
Carbon Tetrachloride	5	<3.1	**0.314**	0.25	**0.251**	0.25	**0.251**	0.25	**0.251**	0.25
Chlorobenzene		<2.0	ND	1	ND	1	ND	1	**1.29**	1
Chloroethane		NA	ND	1	ND	1	ND	1	ND	1
Chloroform		<2.4	ND	1	**6.29**	1	**2.59**	1	**14.5**	1
Chloromethane		<1.0 - 1.4	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene		<1.0	ND	1	ND	1	ND	1	ND	1
cis-1,3-Dichloropropene		NA	ND	1	ND	1	ND	1	ND	1
Cyclohexane		NA	**5.47**	1	**4.75**	1	**3.1**	1	**8.22**	1
Dibromochloromethane		<5.0	ND	1	ND	1	ND	1	ND	1
Dichlorodifluromethane		NA	**6.62**	1	**6.87**	1	**5.04**	1	**9.88**	1
Ethanol			**175**	1	**170**	1	**126**	1	**165**	1
Ethyl Acetate		NA	**4.75**	1	**1.84**	1	**3.38**	1	**1.55**	1
Ethylbenzene		<4.3	**6.99**	1	**6.12**	1	**6.9**	1	**13.4**	1
Heptane		NA	**5.45**	1	**4.75**	1	**6.06**	1	**13.9**	1
Hexachlorobutadiene		NA	ND	1	ND	1	ND	1	ND	1
Hexane		<1.5	**3.8**	1	**4.09**	1	**3.17**	1	**9.09**	1
Isopropylalcohol		NA	**14.8**	1	**12.5**	1	**8.06**	1	**16.2**	1
Isopropylbenzene			ND	1	ND	1	ND	1	**1.08**	1
Xylene (m&p)		<4.3	**21.2**	1	**20.9**	1	**21.9**	1	**40.2**	1
Methyl Ethyl Ketone			**37.7**	1	**43.3**	1	**23**	1	**51**	1
MTBE		NA	ND	1	ND	1	ND	1	ND	1
Methylene Chloride		<3.4	**1.04**	1	ND	1	**1.18**	1	ND	1
n-Butylbenzene			ND	1	ND	1	ND	1	ND	1
Xylene (o)		<4.3	**8.29**	1	**9.16**	1	**8.72**	1	**13.6**	1
Propylene		NA	**6.84**	1	**11.9**	1	**5.44**	1	**13.3**	1
sec-Butylbenzene			ND	1	ND	1	ND	1	ND	1
Styrene		<1.0	ND	1	ND	1	ND	1	ND	1
Tetrachloroethene	100		**2.51**	0.25	**2.44**	0.25	**2.58**	0.25	**3.18**	0.25
Tetrahydrofuran		NA	**2.77**	1	**2.27**	1	**2.89**	1	**2.86**	1
Toluene		1.0 - 6.1	**14**	1	**10.6**	1	**17.2**	1	**37.2**	1
trans-1,2-Dichloroethene		NA	ND	1	ND	1	ND	1	ND	1
trans-1,3-Dichloropropene		NA	ND	1	ND	1	ND	1	ND	1
Trichloroethene	5	<1.7	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Trichlorofluoromethane		NA	**4.32**	1	**17.3**	1	**6.34**	1	**10.2**	1
Trichlorotrifluoroethane			ND	1	ND	1	ND	1	ND	1
Vinyl Chloride		<1.0	ND	0.25	ND	0.25	ND	0.25	ND	0.25

Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)
Value detected above NYSDOH Air Guidance Value of 5 µg/m3, which according to Soil Vapor/Indoor Air Matrix 1 would require at a minimum, monitoring.

FIGURES



USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

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1808 MIDDLE COUNTRY ROAD. RIDGE. NY 11961
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1035 FULTON STREET
BROOKLYN, NY

FIGURE 1 SITE LOCATION MAP

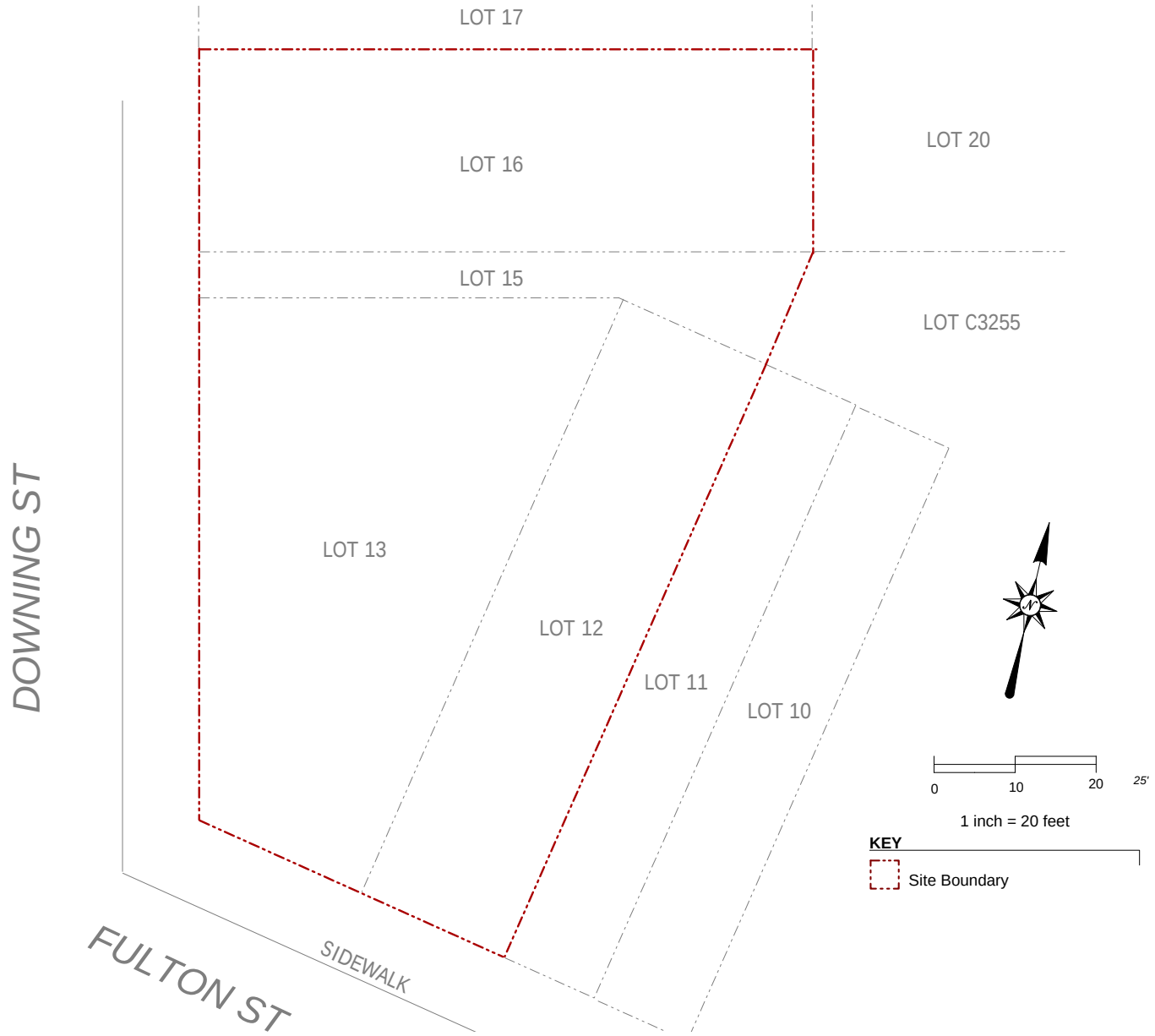

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FIGURE 2 SITE PLAN

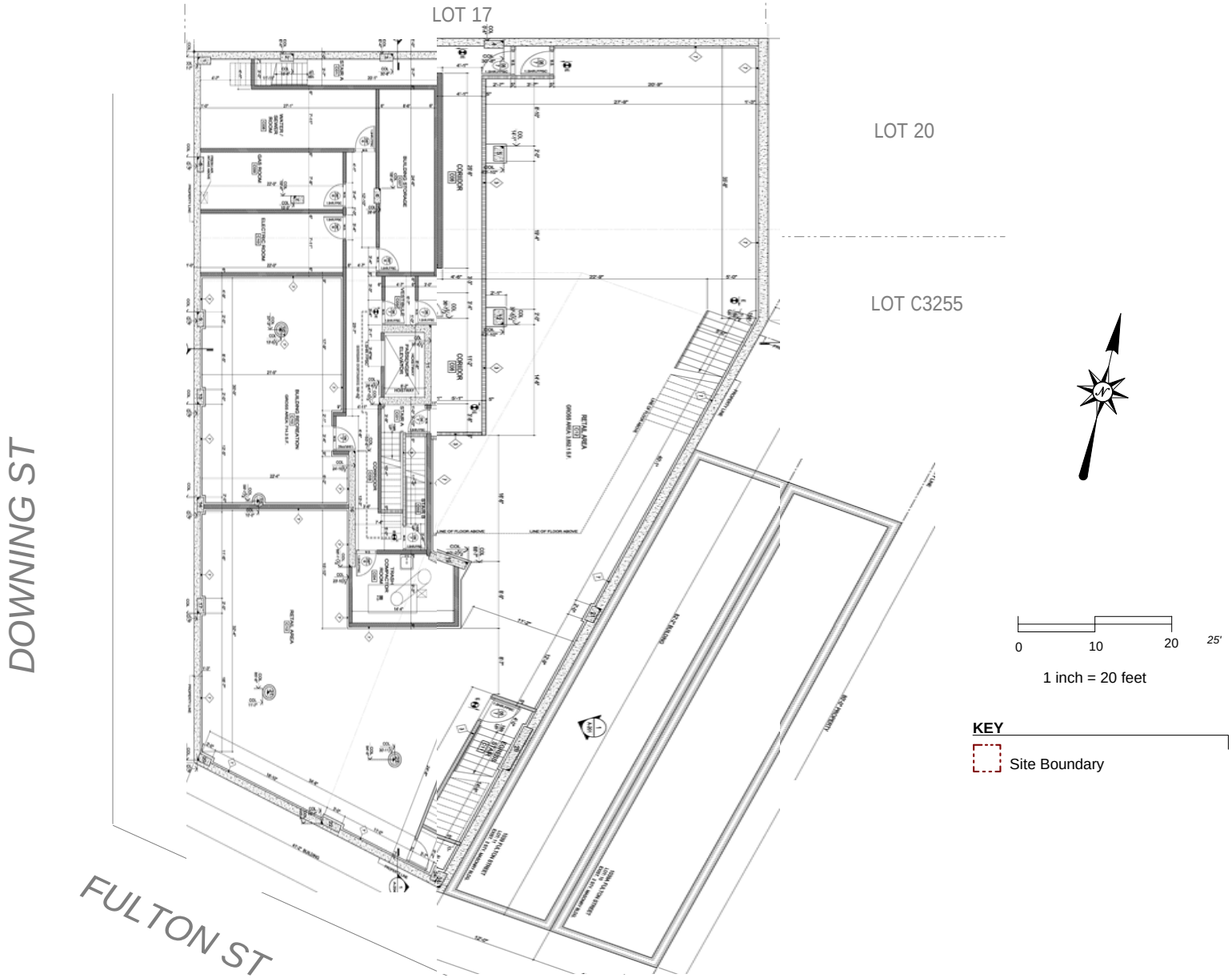

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FIGURE 3 REDEVELOPMENT PLAN

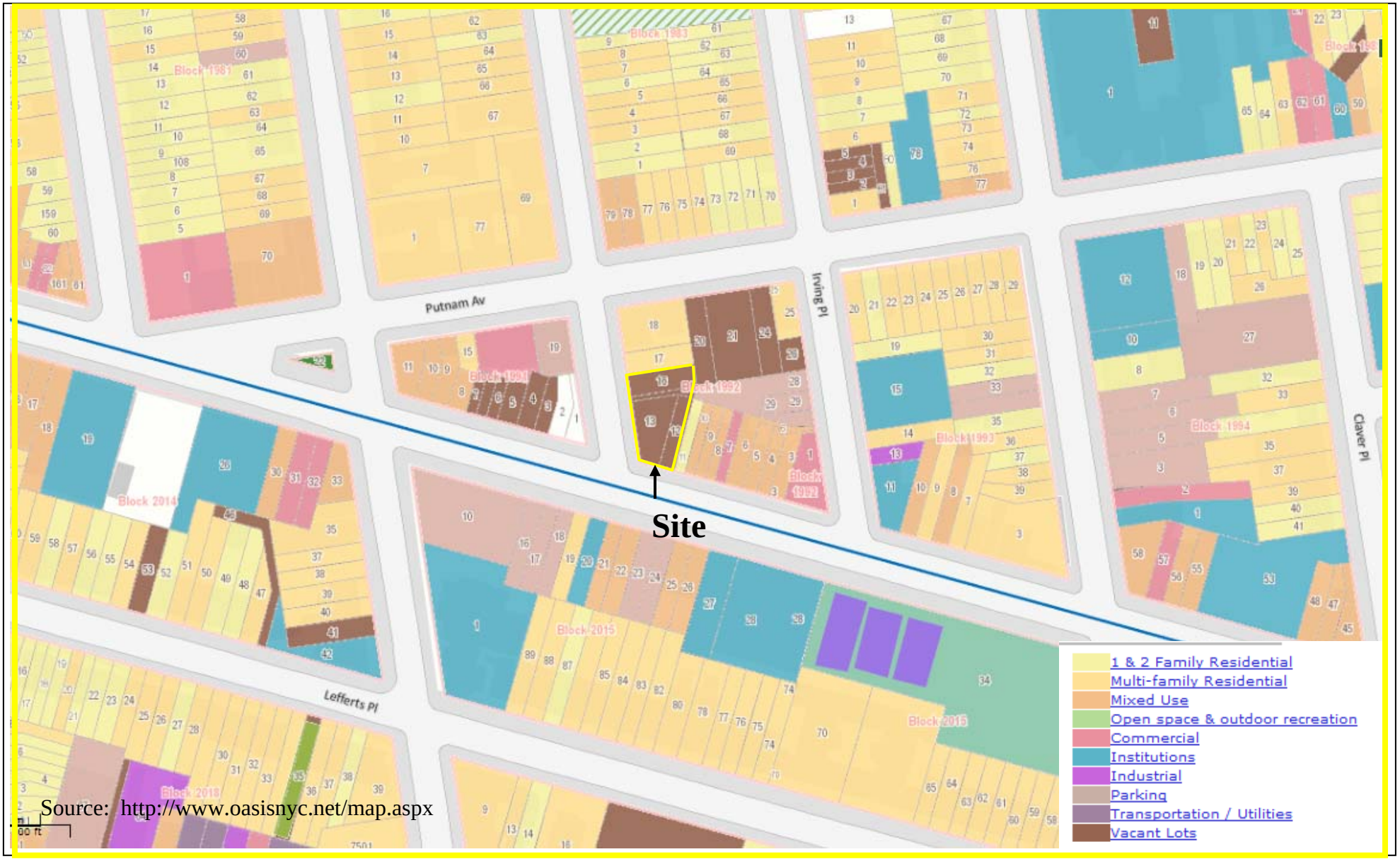

FIGURE 4
SURROUNDING LAND USE MAP

1035 FULTON STREET, BROOKLYN NY

HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT

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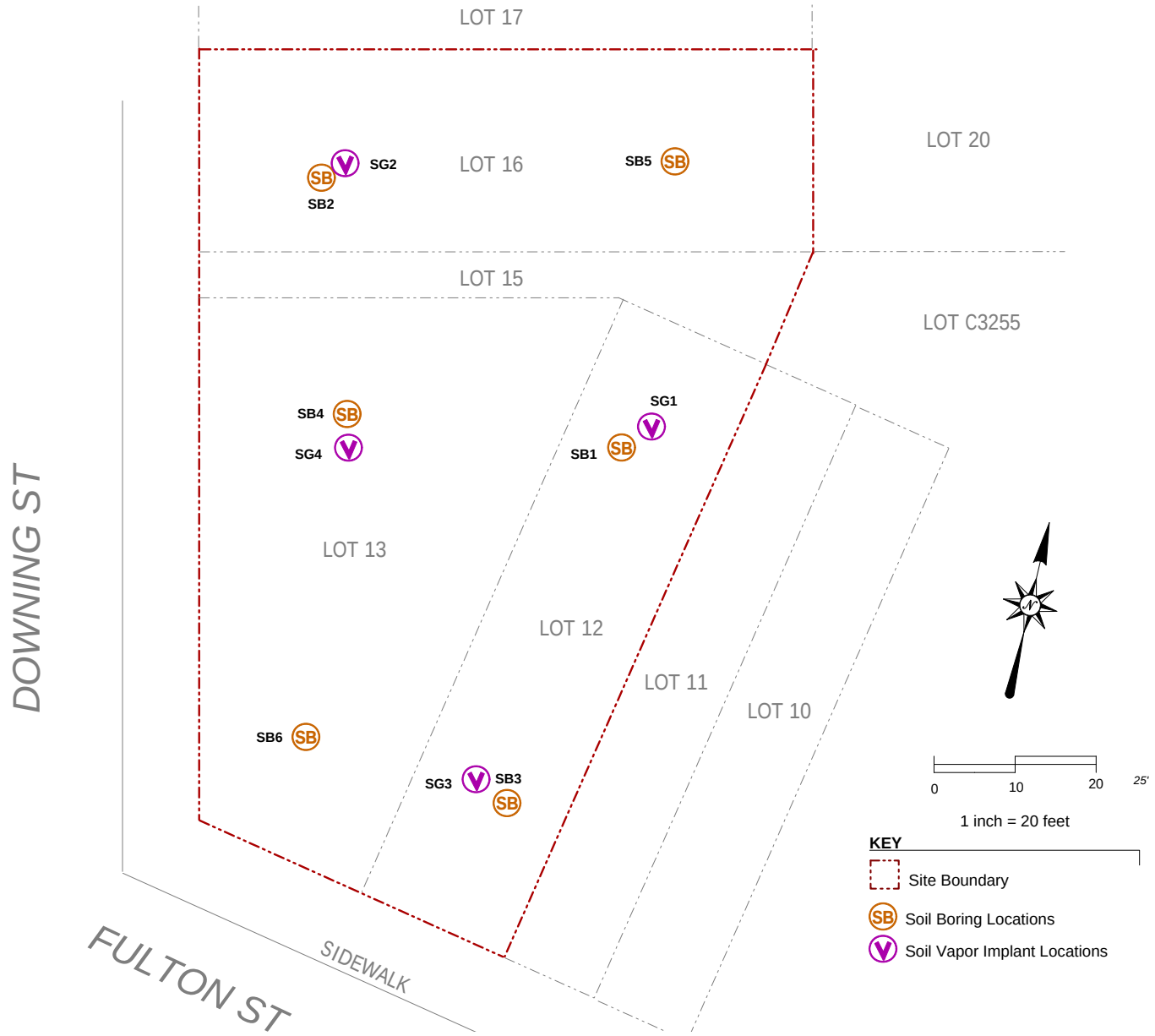

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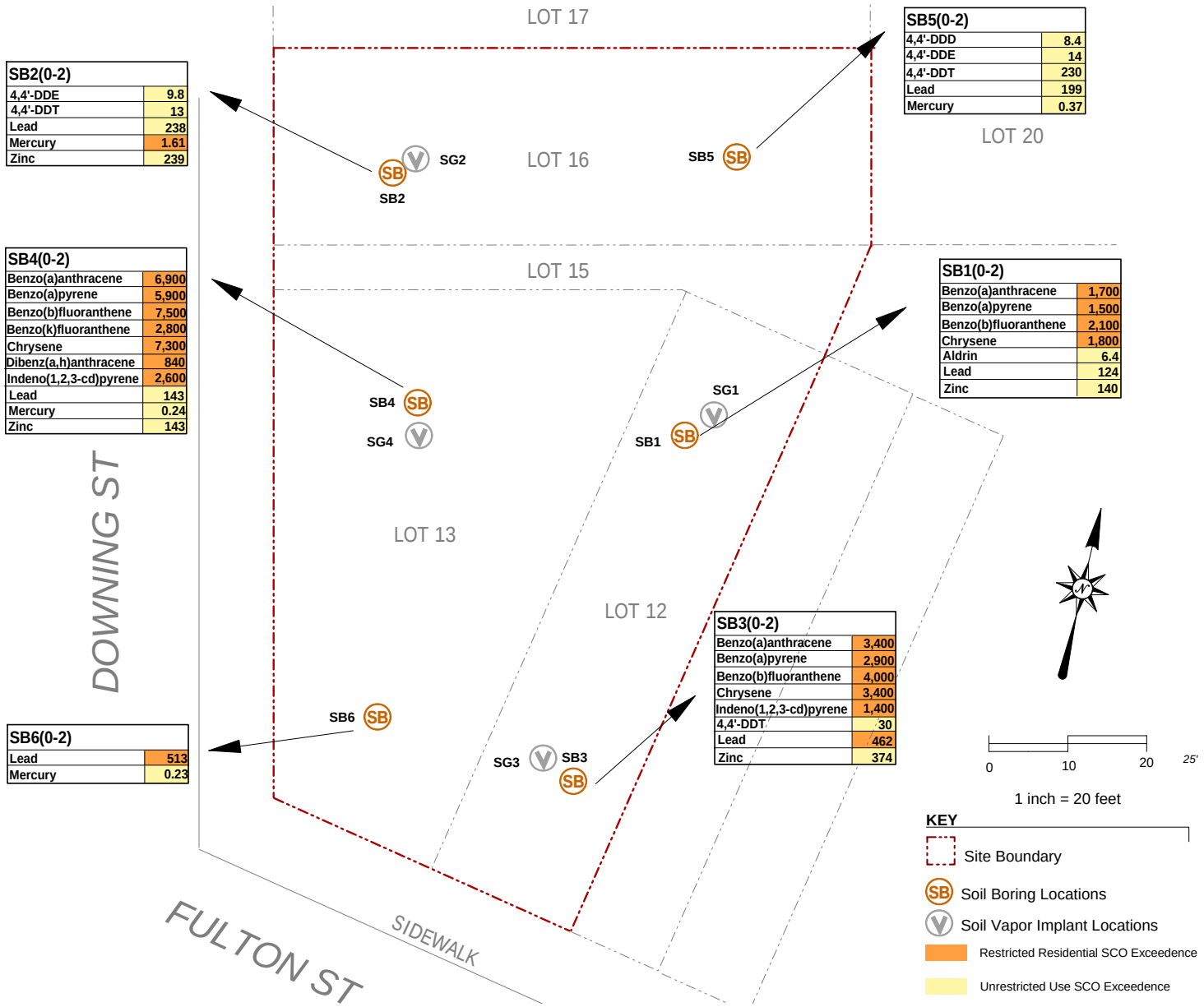
FIGURE 5 SITE PLAN



SB2(0-2)	
4,4'-DDE	9.8
4,4'-DDT	13
Lead	238
Mercury	1.61
Zinc	239

SB4(0-2)	
Benzo(a)anthracene	6,900
Benzo(a)pyrene	5,900
Benzo(b)fluoranthene	7,500
Benzo(k)fluoranthene	2,800
Chrysene	7,300
Dibenz(a,h)anthracene	840
Indeno(1,2,3-cd)pyrene	2,600
Lead	143
Mercury	0.24
Zinc	143

SB6(0-2)	
Lead	513
Mercury	0.23

SB5(0-2)	
4,4'-DDD	8.4
4,4'-DDE	14
4,4'-DDT	230
Lead	199
Mercury	0.37

SB1(0-2)	
Benzo(a)anthracene	1,700
Benzo(a)pyrene	1,500
Benzo(b)fluoranthene	2,100
Chrysene	1,800
Aldrin	6.4
Lead	124
Zinc	140

SB3(0-2)	
Benzo(a)anthracene	3,400
Benzo(a)pyrene	2,900
Benzo(b)fluoranthene	4,000
Chrysene	3,400
Indeno(1,2,3-cd)pyrene	1,400
4,4'-DDT	30
Lead	462
Zinc	374

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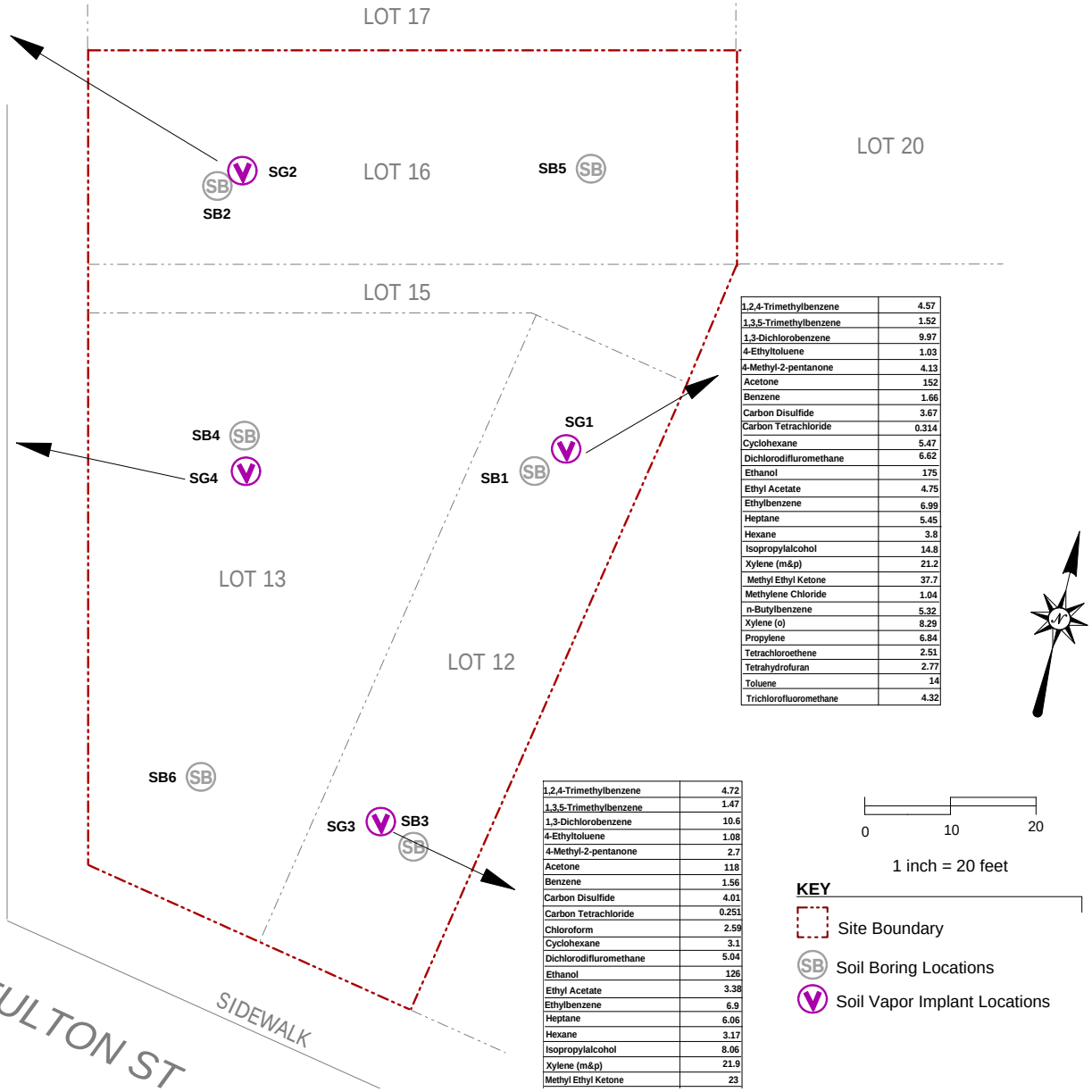
FIGURE 6 SOIL EXCEEDENCES



1,2,4-Trimethylbenzene	6.93
1,3,5-Trimethylbenzene	2.11
1,3-Dichlorobenzene	14.1
2-Hexanone	26
4-Ethyltoluene	1.23
4-Methyl-2-pentanone	3.72
Acetone	202
Benzene	1.34
Carbon Disulfide	8.59
Carbon Tetrachloride	0.251
Chloroform	6.29
Cyclohexane	4.75
Dichlorodifluromethane	6.87
Ethanol	170
Ethyl Acetate	1.84
Ethylbenzene	6.12
Heptane	4.75
Hexane	4.09
Isopropylalcohol	12.5
Xylene (m&p)	20.9
Methyl Ethyl Ketone	43.3
Xylene (o)	9.16
Propylene	11.9
Tetrachloroethene	2.44
Tetrahydrofuran	2.27
Toluene	10.6
Trichlorofluoromethane	17.3

1,2,4-Trimethylbenzene	7.02
1,3,5-Trimethylbenzene	2.46
1,3-Dichlorobenzene	13.3
4-Ethyltoluene	1.96
4-Methyl-2-pentanone	3.85
Acetone	234
Benzene	3.64
Bromodichloromethane	1.14
Carbon Disulfide	9.46
Carbon Tetrachloride	0.251
Chlorobenzene	1.29
Chloroform	14.5
Cyclohexane	8.22
Dichlorodifluromethane	9.88
Ethanol	165
Ethyl Acetate	1.55
Ethylbenzene	13.4
Heptane	13.9
Hexane	9.09
Isopropylalcohol	16.2
Isopropylbenzene	1.08
Xylene (m&p)	40.2
Methyl Ethyl Ketone	51
Xylene (o)	13.6
Propylene	13.3
Tetrachloroethene	3.18
Tetrahydrofuran	2.86
Toluene	37.2
Trichlorofluoromethane	10.2

1,2,4-Trimethylbenzene	4.57
1,3,5-Trimethylbenzene	1.52
1,3-Dichlorobenzene	9.97
4-Ethyltoluene	1.03
4-Methyl-2-pentanone	4.13
Acetone	152
Benzene	1.66
Carbon Disulfide	3.67
Carbon Tetrachloride	0.314
Cyclohexane	5.47
Dichlorodifluromethane	6.62
Ethanol	175
Ethyl Acetate	4.75
Ethylbenzene	6.99
Heptane	5.45
Hexane	3.8
Isopropylalcohol	14.8
Xylene (m&p)	21.2
Methyl Ethyl Ketone	37.7
Methylene Chloride	1.04
n-Butylbenzene	5.32
Xylene (o)	8.29
Propylene	6.84
Tetrachloroethene	2.51
Tetrahydrofuran	2.77
Toluene	14
Trichlorofluoromethane	4.32

1,2,4-Trimethylbenzene	4.72
1,3,5-Trimethylbenzene	1.47
1,3-Dichlorobenzene	10.6
4-Ethyltoluene	1.08
4-Methyl-2-pentanone	2.7
Acetone	118
Benzene	1.56
Carbon Disulfide	4.01
Carbon Tetrachloride	0.251
Chloroform	2.59
Cyclohexane	3.1
Dichlorodifluromethane	5.04
Ethanol	126
Ethyl Acetate	3.38
Ethylbenzene	6.9
Heptane	6.06
Hexane	3.17
Isopropylalcohol	8.06
Xylene (m&p)	21.9
Methyl Ethyl Ketone	23

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FIGURE 7 SOIL GAS DETECTIONS

ATTACHMENT A
PHASE I REPORT

ATTACHMENT B
SOIL BORING LOGS

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB1

Location: Performed in east-northeast side of site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1301	Address: 1035 Fulton Street, Brooklyn, New York	Date	DTW	Ground Elevation
Drilling Company: Eastern Environmental Solutions	Method: Geoprobe	Groundwater depth ~35		Well Specifications
Date Started: 5/15/2013	Date Completed: 5/15/2013			None
Completion Depth: 15 feet	Geologist Kevin Waters			

SB1 (NTS)	DEPTH (ft below grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	27		0.0	13" - Brown sand with rock and concrete. 14" - Dark brown sandy silt with brick. **Retained soil sample SB1(0-2)*
	to 10	10		0.0	10" - Brown sandy silt with brick.
	to 15	30		0.0	15" - Brown silty sand. 15" - Coarse to fine brown sand. No odor. **Retained soil sample SB1(12-14)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB2

Location: Performed in the northwest corner of site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1301	Address: 1035 Fulton Street, Brooklyn, New York	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: Eastern Environmental Solutions	Method: Geoprobe	~35		Well Specifications
Date Started: 5/15/2013	Date Completed: 5/15/2013			None
Completion Depth: 15 feet	Geologist Kevin Waters			

SB2 (NTS)	DEPTH (ft below grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	27		0.0	40" - Coarse to fine brown and dark brown sand with some brick, rock, and pieces of coal. **Retained soil sample SB2(0-2)*
	to 10	30		0.0	30" - Coarse to fine brown and tan sand.
	to 15	25		0.0	25" - Coarse to fine brown and tan sand with some silt and rock. **Retained soil sample SB2(12-14)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB3

Location: Performed in southeast corner of site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1301	Address: 1035 Fulton Street, Brooklyn, New York	Date	DTW	Ground Elevation
Drilling Company: Eastern Environmental Solutions	Method: Geoprobe	Groundwater depth ~35		Well Specifications
Date Started: 5/15/2013	Date Completed: 5/15/2013			None
Completion Depth: 15 feet	Geologist Kevin Waters			

SB3 (NTS)	DEPTH (ft below grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	20		0.0	20" - Dark brown sandy silt with brick and rock. No odor. *Retained soil sample SB3(0-2)*
	to 10	10		0.0	10" - Wet dark brown sandy silt with rock.
	to 15	24		0.0	24" - Coarse to fine brown and tan sand, rock at 10'. No odor. *Retained soil sample SB3(12-14)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB4

Location: Performed in the center of the west side of site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1301	Address: 1035 Fulton Street, Brooklyn, New York	Date	DTW	Ground Elevation
Drilling Company: Eastern Environmental Solutions	Method: Geoprobe	Groundwater depth ~35		Well Specifications
Date Started: 5/15/2013	Date Completed: 5/15/2013			None
Completion Depth: 15 feet	Geologist Kevin Waters			

SB4 (NTS)	DEPTH (ft below grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	23		0.0	23" - Dark brown to brown sand with rock, some asphalt, and glass. No odor. **Retained soil sample SB4(0-2)*
	to 10	32		0.0	32" - Coarse to fine brown and tan sand with rock.
	to 15	25		0.0	25" - Coarse to fine brown and tan sand with rock. **Retained soil sample SB4(12-14)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB5

Location: Performed in the northeast corner of site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1301	Address: 1035 Fulton Street, Brooklyn, New York	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: Eastern Environmental Solutions	Method: Geoprobe	~35		Well Specifications
Date Started: 5/15/2013	Date Completed: 5/15/2013			None
Completion Depth: 15 feet	Geologist Kevin Waters			

SB5 (NTS)	DEPTH (ft below grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	33		0.0	33" - Dark to light brown sand with pebbles and concrete. No odor. **Retained soil sample SB5(0-2)*
	to 10	29		0.0	10" - Brown sandy silt. 19" - Coarse to fine brown sand with rock.
	to 15	25		0.0	25" - Coarse to fine brown sand with rock. No odor. **Retained soil sample SB5(12-14)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB6

Location: Performed in the southwest corner of site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1301	Address: 1035 Fulton Street, Brooklyn, New York	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: Eastern Environmental Solutions	Method: Geoprobe	~35		Well Specifications
Date Started: 5/15/2013	Date Completed: 5/15/2013			None
Completion Depth: 15 feet	Geologist Kevin Waters			

SB6 (NTS)	DEPTH (ft below grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	18		0.0	18" - Brown sand with brick and concrete. *Retained soil sample SB6(0-2)*
	to 10	8		0.0	8" - Brick in sandy silt matrix.
	to 15	10		0.0	10" - Coarse to fine sand. No odor. *Retained soil sample SB6(12-14)*

ATTACHMENT C
SOIL GAS SAMPLING LOGS

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:
- ☐ Fax #:
- ☐ Email:
- ☐ Phone #:

Report to: EBC
Customer: EBC
Address:

Invoice to: EBC

Sampled by: KW

Project Name: 1035 Fulton St Bklyn NY
Criteria Requested: Deliverable: RCP ☐ MCP ☐
State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
		~~488~~	~~6L~~	~~-30~~		~~5658~~	~~41.6~~							✓			X
85019	593	475	↓	↓	-7	5658	↓	1135	1300	5-29	-28	-8		X			X
85020	591	466	6L	-30	-5	5649		1138	1312	5-29	-29	-6		X			X
85021	592	13614	6L	-30	-5	4990		1128	1315	5-29	-30	-9		X			X
85022	594	484	6L	-30	-3	4961		1130	1310	5-29	-30	-6		X			X
	6L 2hr																

Relinquished by:	Accepted by:	Date:	Time:
Thomas Ambro		5-24-13	945
		5-29-13	4:00
		5-29-13	1756

Data Format:
- Excel ☒
- Equis ☐
- GISKey ☐
- PDF ☒
- Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Quote Number:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date:

ATTACHMENT D
LABORATORY REPORTS IN DIGITAL FORMAT

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 23, 2013

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: FULTON ST., BROOKLYN, NY
Sample ID#s: BD79840 - BD79854

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

May 23, 2013

SDG I.D.: GBD79840

BD79850 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	8:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79840

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/17/13	LK	SW6010	
Aluminum	7760	55	mg/Kg	05/17/13	LK	SW6010	
Arsenic	4.2	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	108	0.37	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.41	0.29	mg/Kg	05/17/13	LK	SW6010	
Calcium	41800	55	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.60	0.37	mg/Kg	05/17/13	LK	SW6010	
Cobalt	5.42	0.37	mg/Kg	05/17/13	LK	SW6010	
Chromium	19.5	0.37	mg/Kg	05/17/13	LK	SW6010	
Copper	32.3	0.37	mg/kg	05/17/13	LK	SW6010	
Iron	21600	55	mg/Kg	05/17/13	LK	SW6010	
Mercury	0.14	0.08	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1560	5.5	mg/Kg	05/17/13	LK	SW6010	
Magnesium	8670	55	mg/Kg	05/17/13	LK	SW6010	
Manganese	321	3.7	mg/Kg	05/17/13	LK	SW6010	
Sodium	399	5.5	mg/Kg	05/17/13	LK	SW6010	
Nickel	18.0	0.37	mg/Kg	05/17/13	LK	SW6010	B
Lead	124	0.37	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	34.0	0.37	mg/Kg	05/17/13	LK	SW6010	
Zinc	140	0.37	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	92		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 0-2

Phoenix I.D.: BD79840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1221	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1232	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1242	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1248	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1254	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1260	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1262	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1268	ND	71	ug/Kg	05/20/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	79		%	05/20/13	AW	30 - 150 %	
% TCMX	74		%	05/20/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDE	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDT	ND*	11	ug/Kg	05/20/13	MH	SW8081	
a-BHC	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Alachlor	ND*	17	ug/Kg	05/20/13	MH	SW8081	1
Aldrin	6.4	5.3	ug/Kg	05/20/13	MH	SW8081	
b-BHC	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Chlordane	170	53	ug/Kg	05/20/13	MH	SW8081	
d-BHC	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Dieldrin	ND*	5.3	ug/Kg	05/20/13	MH	SW8081	
Endosulfan I	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Endosulfan II	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endosulfan sulfate	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endrin	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endrin aldehyde	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endrin ketone	ND*	34	ug/Kg	05/20/13	MH	SW8081	
g-BHC	ND*	5.3	ug/Kg	05/20/13	MH	SW8081	
Heptachlor	ND*	11	ug/Kg	05/20/13	MH	SW8081	
Heptachlor epoxide	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Methoxychlor	ND*	170	ug/Kg	05/20/13	MH	SW8081	
Toxaphene	ND*	170	ug/Kg	05/20/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	90		%	05/20/13	MH	30 - 150 %	
% TCMX	96		%	05/20/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 0-2

Phoenix I.D.: BD79840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	24	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	24	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	49	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	2.9	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	29	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	4.9	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	97		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	107		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	104		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	720	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	1100	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	500	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	500	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	500	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	500	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	500	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	1100	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	720	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	500	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	1100	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2100	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	720	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	500	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	500	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	500	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	1100	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 0-2

Phoenix I.D.: BD79840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	2100	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	2100	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	590	500	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	1700	500	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	860	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	1500	500	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	2100	500	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	530	500	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	610	500	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	2100	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	720	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	500	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	1100	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	1800	500	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	3600	500	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	500	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	720	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	500	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	720	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	720	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	720	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	2400	500	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	3300	500	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	720	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	20		%	05/17/13	DD	30 - 130 %	3
% 2-Fluorobiphenyl	84		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	51		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	71		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 0-2

Phoenix I.D.: BD79840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	70		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	102		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

* Due to matrix interference and/or the presence of a large amount of non-target material in the sample an elevated RL was reported for the semivolatile analysis.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	8:20
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79841

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.36	0.36	mg/Kg	05/17/13	LK	SW6010	
Aluminum	3370	53	mg/Kg	05/17/13	LK	SW6010	
Arsenic	0.9	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	20.3	0.36	mg/Kg	05/17/13	LK	SW6010	
Beryllium	< 0.28	0.28	mg/Kg	05/17/13	LK	SW6010	
Calcium	589	5.3	mg/Kg	05/17/13	LK	SW6010	
Cadmium	< 0.36	0.36	mg/Kg	05/17/13	LK	SW6010	
Cobalt	2.98	0.36	mg/Kg	05/17/13	LK	SW6010	
Chromium	7.49	0.36	mg/Kg	05/17/13	LK	SW6010	
Copper	6.73	0.36	mg/kg	05/17/13	LK	SW6010	
Iron	7940	5.3	mg/Kg	05/17/13	LK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	05/17/13	RS	SW-7471	
Potassium	564	5.3	mg/Kg	05/17/13	LK	SW6010	
Magnesium	1060	5.3	mg/Kg	05/17/13	LK	SW6010	
Manganese	227	3.6	mg/Kg	05/17/13	LK	SW6010	
Sodium	76.5	5.3	mg/Kg	05/17/13	LK	SW6010	
Nickel	8.53	0.36	mg/Kg	05/17/13	LK	SW6010	B
Lead	2.37	0.36	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.6	3.6	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	10.6	0.36	mg/Kg	05/17/13	LK	SW6010	
Zinc	13.4	0.36	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	95		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 12-14

Phoenix I.D.: BD79841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1221	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1232	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1242	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1248	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1254	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1260	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1262	ND	69	ug/Kg	05/20/13	AW	SW 8082	
PCB-1268	ND	69	ug/Kg	05/20/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	73		%	05/20/13	AW	30 - 150 %	
% TCMX	73		%	05/20/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.3	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Chlordane	ND	10	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	33	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	33	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	73		%	05/17/13	MH	30 - 150 %	
% TCMX	68		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 12-14

Phoenix I.D.: BD79841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	30	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	30	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	36	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.6	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	36	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	12	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	6.1	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	99		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	114		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	103		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	340	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	990	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	340	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 12-14

Phoenix I.D.: BD79841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	990	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	990	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	410	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	990	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	340	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	340	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	76		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	79		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	74		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	73		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB1 12-14

Phoenix I.D.: BD79841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	80		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	87		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	8:40
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79842

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.36	0.36	mg/Kg	05/17/13	LK	SW6010	
Aluminum	9300	54	mg/Kg	05/17/13	LK	SW6010	
Arsenic	6.3	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	160	0.36	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.46	0.29	mg/Kg	05/17/13	LK	SW6010	
Calcium	23800	54	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.66	0.36	mg/Kg	05/17/13	LK	SW6010	
Cobalt	6.38	0.36	mg/Kg	05/17/13	LK	SW6010	
Chromium	19.5	0.36	mg/Kg	05/17/13	LK	SW6010	
Copper	39.7	0.36	mg/kg	05/17/13	LK	SW6010	
Iron	20900	54	mg/Kg	05/17/13	LK	SW6010	
Mercury	1.61	0.08	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1260	5.4	mg/Kg	05/17/13	LK	SW6010	
Magnesium	3860	5.4	mg/Kg	05/17/13	LK	SW6010	
Manganese	351	3.6	mg/Kg	05/17/13	LK	SW6010	
Sodium	417	5.4	mg/Kg	05/17/13	LK	SW6010	
Nickel	20.0	0.36	mg/Kg	05/17/13	LK	SW6010	B
Lead	238	3.6	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.6	3.6	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	27.8	0.36	mg/Kg	05/17/13	LK	SW6010	
Zinc	239	3.6	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	91		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 0-2

Phoenix I.D.: BD79842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1221	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1232	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1242	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1248	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1254	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1260	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1262	ND	71	ug/Kg	05/20/13	AW	SW 8082	
PCB-1268	ND	71	ug/Kg	05/20/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	81		%	05/20/13	AW	30 - 150 %	
% TCMX	74		%	05/20/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.1	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	9.8	2.1	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	13	2.1	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.4	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.4	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.4	ug/Kg	05/17/13	MH	SW8081	
Chlordane	75	11	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.4	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.4	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	6.8	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	6.8	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	6.8	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	6.8	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	6.8	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.1	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.4	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	34	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	34	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	71		%	05/17/13	MH	30 - 150 %	
% TCMX	67		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 0-2

Phoenix I.D.: BD79842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	31	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	31	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	38	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.8	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	38	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	13	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	6.3	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	96		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	108		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	104		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 0-2

Phoenix I.D.: BD79842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1100	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	860	260	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	440	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	710	260	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	1000	260	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	440	260	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	280	260	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	550	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	870	260	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	1700	260	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	350	260	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	1100	260	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	1600	260	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	80		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	77		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	76		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 0-2

Phoenix I.D.: BD79842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	82		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	90		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	9:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79843

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	05/17/13	LK	SW6010	
Aluminum	8010	58	mg/Kg	05/17/13	LK	SW6010	
Arsenic	1.6	0.8	mg/Kg	05/17/13	LK	SW6010	
Barium	33.4	0.39	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.43	0.31	mg/Kg	05/17/13	LK	SW6010	
Calcium	808	5.8	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.41	0.39	mg/Kg	05/17/13	LK	SW6010	
Cobalt	7.12	0.39	mg/Kg	05/17/13	LK	SW6010	
Chromium	29.7	0.39	mg/Kg	05/17/13	LK	SW6010	
Copper	34.7	0.39	mg/kg	05/17/13	LK	SW6010	
Iron	26600	58	mg/Kg	05/17/13	LK	SW6010	
Mercury	< 0.06	0.06	mg/Kg	05/17/13	RS	SW-7471	
Potassium	857	5.8	mg/Kg	05/17/13	LK	SW6010	
Magnesium	2180	5.8	mg/Kg	05/17/13	LK	SW6010	
Manganese	456	3.9	mg/Kg	05/17/13	LK	SW6010	
Sodium	76.5	5.8	mg/Kg	05/17/13	LK	SW6010	
Nickel	18.3	0.39	mg/Kg	05/17/13	LK	SW6010	B
Lead	37.8	0.39	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.9	3.9	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	30.3	0.39	mg/Kg	05/17/13	LK	SW6010	
Zinc	44.9	0.39	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	91		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 12-14

Phoenix I.D.: BD79843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1221	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1232	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1242	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1248	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1254	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1260	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1262	ND	73	ug/Kg	05/20/13	AW	SW 8082	
PCB-1268	ND	73	ug/Kg	05/20/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	05/20/13	AW	30 - 150 %	
% TCMX	73		%	05/20/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.5	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.5	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.5	ug/Kg	05/17/13	MH	SW8081	
Chlordane	ND	11	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.5	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.5	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	7.0	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	7.0	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	7.0	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	7.0	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	7.0	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.5	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	35	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	35	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	70		%	05/17/13	MH	30 - 150 %	
% TCMX	65		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 12-14

Phoenix I.D.: BD79843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	18	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	18	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	37	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	2.2	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	22	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	7.4	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	7.4	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	7.4	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	98		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	114		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	104		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	570	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	570	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	570	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	570	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 12-14

Phoenix I.D.: BD79843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1000	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	1000	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	430	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	540	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	360	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	360	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	360	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	360	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	ND	250	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	360	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	76		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	77		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	71		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	71		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB2 12-14

Phoenix I.D.: BD79843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	77		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	89		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	9:20
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79844

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/17/13	LK	SW6010	
Aluminum	8120	55	mg/Kg	05/17/13	LK	SW6010	
Arsenic	5.2	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	184	0.37	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.42	0.30	mg/Kg	05/17/13	LK	SW6010	
Calcium	36600	55	mg/Kg	05/17/13	LK	SW6010	
Cadmium	1.45	0.37	mg/Kg	05/17/13	LK	SW6010	
Cobalt	5.88	0.37	mg/Kg	05/17/13	LK	SW6010	
Chromium	20.9	0.37	mg/Kg	05/17/13	LK	SW6010	
Copper	44.4	0.37	mg/kg	05/17/13	LK	SW6010	
Iron	21100	55	mg/Kg	05/17/13	LK	SW6010	
Mercury	0.17	0.07	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1480	5.5	mg/Kg	05/17/13	LK	SW6010	
Magnesium	4140	5.5	mg/Kg	05/17/13	LK	SW6010	
Manganese	355	3.7	mg/Kg	05/17/13	LK	SW6010	
Sodium	716	5.5	mg/Kg	05/17/13	LK	SW6010	
Nickel	18.5	0.37	mg/Kg	05/17/13	LK	SW6010	B
Lead	462	3.7	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	29.6	0.37	mg/Kg	05/17/13	LK	SW6010	
Zinc	374	3.7	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	88		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
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Phoenix I.D.: BD79844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	75	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	75	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	80		%	05/17/13	AW	30 - 150 %	
% TCMX	67		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDE	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDT	30	11	ug/Kg	05/20/13	MH	SW8081	
a-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Alachlor	ND*	18	ug/Kg	05/20/13	MH	SW8081	1
Aldrin	ND*	5.6	ug/Kg	05/20/13	MH	SW8081	
b-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Chlordane	90	56	ug/Kg	05/20/13	MH	SW8081	
d-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Dieldrin	ND*	5.6	ug/Kg	05/20/13	MH	SW8081	
Endosulfan I	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Endosulfan II	ND*	36	ug/Kg	05/20/13	MH	SW8081	
Endosulfan sulfate	ND*	36	ug/Kg	05/20/13	MH	SW8081	
Endrin	ND*	36	ug/Kg	05/20/13	MH	SW8081	
Endrin aldehyde	ND*	36	ug/Kg	05/20/13	MH	SW8081	
Endrin ketone	ND*	36	ug/Kg	05/20/13	MH	SW8081	
g-BHC	ND*	5.6	ug/Kg	05/20/13	MH	SW8081	
Heptachlor	ND*	11	ug/Kg	05/20/13	MH	SW8081	
Heptachlor epoxide	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Methoxychlor	ND*	180	ug/Kg	05/20/13	MH	SW8081	
Toxaphene	ND*	180	ug/Kg	05/20/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	89		%	05/20/13	MH	30 - 150 %	
% TCMX	91		%	05/20/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB3 0-2

Phoenix I.D.: BD79844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	36	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	36	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	43	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	4.3	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	43	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	46	7.1	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	14	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	7.1	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	97		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	113		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	103		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1900	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	3000	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	3000	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1900	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	3000	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5400	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1900	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	3000	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB3 0-2

Phoenix I.D.: BD79844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	5400	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	5400	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	3400	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	2200	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	2900	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	4000	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	1600	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	5400	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1900	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	2800	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	3400	1300	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	7400	1300	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	1400	1300	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1900	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	1900	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	1900	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	1900	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	4800	1300	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	6700	1300	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	1900	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	84		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	109		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	75		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	73		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB3 0-2

Phoenix I.D.: BD79844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	80		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	106		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	9:40
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79845

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB3 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.31	0.31	mg/Kg	05/17/13	LK	SW6010	
Aluminum	3440	46	mg/Kg	05/17/13	LK	SW6010	
Arsenic	1.4	0.6	mg/Kg	05/17/13	LK	SW6010	
Barium	25.4	0.31	mg/Kg	05/17/13	LK	SW6010	
Beryllium	< 0.25	0.25	mg/Kg	05/17/13	LK	SW6010	
Calcium	1110	4.6	mg/Kg	05/17/13	LK	SW6010	
Cadmium	< 0.31	0.31	mg/Kg	05/17/13	LK	SW6010	
Cobalt	5.00	0.31	mg/Kg	05/17/13	LK	SW6010	
Chromium	10.9	0.31	mg/Kg	05/17/13	LK	SW6010	
Copper	12.1	0.31	mg/kg	05/17/13	LK	SW6010	
Iron	21100	46	mg/Kg	05/17/13	LK	SW6010	
Mercury	< 0.06	0.06	mg/Kg	05/17/13	RS	SW-7471	
Potassium	543	4.6	mg/Kg	05/17/13	LK	SW6010	
Magnesium	1410	4.6	mg/Kg	05/17/13	LK	SW6010	
Manganese	401	3.1	mg/Kg	05/17/13	LK	SW6010	
Sodium	63.3	4.6	mg/Kg	05/17/13	LK	SW6010	
Nickel	11.0	0.31	mg/Kg	05/17/13	LK	SW6010	B
Lead	4.13	0.31	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.1	3.1	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.2	1.2	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.5	0.5	mg/Kg	05/17/13	LK	SW6010	
Vanadium	21.1	0.31	mg/Kg	05/17/13	LK	SW6010	
Zinc	18.7	0.31	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	97		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	68	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	77		%	05/17/13	AW	30 - 150 %	
% TCMX	69		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.2	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Chlordane	ND	10	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	32	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	32	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	74		%	05/17/13	MH	30 - 150 %	
% TCMX	65		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	36	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	36	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	44	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	4.4	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	44	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	15	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	7.3	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	97		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	112		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	103		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	330	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	530	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	530	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	230	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	530	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	970	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	330	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	230	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	530	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB3 12-14

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	970	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	970	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	400	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	970	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	330	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	330	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	73		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	78		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	69		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	71		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	74		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	87		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	10:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79846

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB4 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.36	0.36	mg/Kg	05/17/13	LK	SW6010	
Aluminum	7850	54	mg/Kg	05/17/13	LK	SW6010	
Arsenic	4.7	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	118	0.36	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.48	0.29	mg/Kg	05/17/13	LK	SW6010	
Calcium	48600	54	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.56	0.36	mg/Kg	05/17/13	LK	SW6010	
Cobalt	5.15	0.36	mg/Kg	05/17/13	LK	SW6010	
Chromium	24.9	0.36	mg/Kg	05/17/13	LK	SW6010	
Copper	40.9	0.36	mg/kg	05/17/13	LK	SW6010	
Iron	14700	54	mg/Kg	05/17/13	LK	SW6010	
Mercury	0.27	0.08	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1540	5.4	mg/Kg	05/17/13	LK	SW6010	
Magnesium	5270	5.4	mg/Kg	05/17/13	LK	SW6010	
Manganese	254	3.6	mg/Kg	05/17/13	LK	SW6010	
Sodium	435	5.4	mg/Kg	05/17/13	LK	SW6010	
Nickel	21.6	0.36	mg/Kg	05/17/13	LK	SW6010	B
Lead	143	0.36	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.6	3.6	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	26.9	0.36	mg/Kg	05/17/13	LK	SW6010	
Zinc	143	0.36	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	89		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	74	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	63		%	05/17/13	AW	30 - 150 %	
% TCMX	54		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDE	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDT	ND*	11	ug/Kg	05/20/13	MH	SW8081	
a-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Alachlor	ND*	18	ug/Kg	05/20/13	MH	SW8081	1
Aldrin	ND*	5	ug/Kg	05/20/13	MH	SW8081	
b-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Chlordane	130	55	ug/Kg	05/20/13	MH	SW8081	
d-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Dieldrin	ND*	9.2	ug/Kg	05/20/13	MH	SW8081	
Endosulfan I	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Endosulfan II	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endosulfan sulfate	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endrin	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endrin aldehyde	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endrin ketone	ND*	35	ug/Kg	05/20/13	MH	SW8081	
g-BHC	ND*	5.5	ug/Kg	05/20/13	MH	SW8081	
Heptachlor	ND*	11	ug/Kg	05/20/13	MH	SW8081	
Heptachlor epoxide	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Methoxychlor	ND*	180	ug/Kg	05/20/13	MH	SW8081	
Toxaphene	ND*	180	ug/Kg	05/20/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	66		%	05/20/13	MH	30 - 150 %	
% TCMX	72		%	05/20/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	47	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	47	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	47	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	57	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	19	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	19	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	19	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	9.5	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	96		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	111		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	103		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	730	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	1200	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	510	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	510	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	510	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	550	510	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	510	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	1200	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	730	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	510	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	1200	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2100	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	730	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	510	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	510	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	510	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	1200	ug/Kg	05/17/13	DD	SW 8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	2100	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	1300	510	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	850	510	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	2100	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	2900	510	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	6900	510	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	880	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	5900	510	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	7500	510	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	2700	510	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	2800	510	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	2100	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	730	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	510	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	2400	1100	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	7300	510	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	840	510	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	1500	510	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	13000	510	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	2000	510	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	2600	510	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	650	510	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	510	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	730	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	510	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	730	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	730	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	730	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	12000	510	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	11000	510	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	730	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	46		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	90		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	66		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	74		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
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Phoenix I.D.: BD79846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	80		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	101		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	10:20
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79847

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB4 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.32	0.32	mg/Kg	05/17/13	LK	SW6010	
Aluminum	7670	48	mg/Kg	05/17/13	LK	SW6010	
Arsenic	2.1	0.6	mg/Kg	05/17/13	LK	SW6010	
Barium	41.6	0.32	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.44	0.26	mg/Kg	05/17/13	LK	SW6010	
Calcium	1470	4.8	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.43	0.32	mg/Kg	05/17/13	LK	SW6010	
Cobalt	6.96	0.32	mg/Kg	05/17/13	LK	SW6010	
Chromium	19.0	0.32	mg/Kg	05/17/13	LK	SW6010	
Copper	36.4	0.32	mg/kg	05/17/13	LK	SW6010	
Iron	24300	48	mg/Kg	05/17/13	LK	SW6010	
Mercury	< 0.06	0.06	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1610	4.8	mg/Kg	05/17/13	LK	SW6010	
Magnesium	3110	4.8	mg/Kg	05/17/13	LK	SW6010	
Manganese	467	3.2	mg/Kg	05/17/13	LK	SW6010	
Sodium	156	4.8	mg/Kg	05/17/13	LK	SW6010	
Nickel	25.8	0.32	mg/Kg	05/17/13	LK	SW6010	B
Lead	9.54	0.32	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.2	3.2	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.5	0.5	mg/Kg	05/17/13	LK	SW6010	
Vanadium	25.4	0.32	mg/Kg	05/17/13	LK	SW6010	
Zinc	53.3	0.32	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	96		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	68	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	68	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	55		%	05/17/13	AW	30 - 150 %	
% TCMX	49		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.3	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Chlordane	ND	10	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	6.6	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	33	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	33	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	51		%	05/17/13	MH	30 - 150 %	
% TCMX	50		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.4	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	34	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	107		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	95		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	109		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	102		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	340	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	990	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	340	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	990	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	990	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	410	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	990	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	510	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	340	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	340	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	340	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	82		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	73		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	75		%	05/17/13	DD	30 - 130 %	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	80		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	94		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 23, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	10:40
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79848

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.36	0.36	mg/Kg	05/17/13	LK	SW6010	
Aluminum	5350	54	mg/Kg	05/17/13	LK	SW6010	
Arsenic	3.9	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	91.7	0.36	mg/Kg	05/17/13	LK	SW6010	
Beryllium	< 0.29	0.29	mg/Kg	05/17/13	LK	SW6010	
Calcium	10300	5.4	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.49	0.36	mg/Kg	05/17/13	LK	SW6010	
Cobalt	3.44	0.36	mg/Kg	05/17/13	LK	SW6010	
Chromium	13.4	0.36	mg/Kg	05/17/13	LK	SW6010	
Copper	23.1	0.36	mg/kg	05/17/13	LK	SW6010	
Iron	12700	54	mg/Kg	05/17/13	LK	SW6010	
Mercury	0.37	0.08	mg/Kg	05/17/13	RS	SW-7471	
Potassium	827	5.4	mg/Kg	05/17/13	LK	SW6010	
Magnesium	2200	5.4	mg/Kg	05/17/13	LK	SW6010	
Manganese	205	3.6	mg/Kg	05/17/13	LK	SW6010	
Sodium	162	5.4	mg/Kg	05/17/13	LK	SW6010	
Nickel	14.3	0.36	mg/Kg	05/17/13	LK	SW6010	B
Lead	199	3.6	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.6	3.6	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	16.2	0.36	mg/Kg	05/17/13	LK	SW6010	
Zinc	109	0.36	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	89		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 0-2

Phoenix I.D.: BD79848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	73	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	73	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	76		%	05/17/13	AW	30 - 150 %	
% TCMX	69		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	8.4	7.0	ug/Kg	05/21/13	MH	SW8081	
4,4' -DDE	14	7.0	ug/Kg	05/21/13	MH	SW8081	
4,4' -DDT	230	35	ug/Kg	05/21/13	MH	SW8081	
a-BHC	ND	3.5	ug/Kg	05/21/13	MH	SW8081	
Alachlor	ND	3.5	ug/Kg	05/21/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	05/21/13	MH	SW8081	
b-BHC	ND	3.5	ug/Kg	05/21/13	MH	SW8081	
Chlordane	40	11	ug/Kg	05/21/13	MH	SW8081	
d-BHC	ND	3.5	ug/Kg	05/21/13	MH	SW8081	
Dieldrin	4.9	1.1	ug/Kg	05/21/13	MH	SW8081	
Endosulfan I	ND	3.5	ug/Kg	05/21/13	MH	SW8081	
Endosulfan II	ND	7.0	ug/Kg	05/21/13	MH	SW8081	
Endosulfan sulfate	ND	7.0	ug/Kg	05/21/13	MH	SW8081	
Endrin	ND	7.0	ug/Kg	05/21/13	MH	SW8081	
Endrin aldehyde	ND	7.0	ug/Kg	05/21/13	MH	SW8081	
Endrin ketone	ND	7.0	ug/Kg	05/21/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	05/21/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	05/21/13	MH	SW8081	
Heptachlor epoxide	ND	3.5	ug/Kg	05/21/13	MH	SW8081	
Methoxychlor	ND	35	ug/Kg	05/21/13	MH	SW8081	
Toxaphene	ND	35	ug/Kg	05/21/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	72		%	05/21/13	MH	30 - 150 %	
% TCMX	65		%	05/21/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	26	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	26	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	31	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.1	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	31	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	10	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	5.1	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	100		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	110		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	104		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 0-2

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1100	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	750	260	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	440	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	650	260	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	840	260	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	370	260	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	330	260	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	550	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	870	260	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	1700	260	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	320	260	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	1400	260	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	1500	260	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	82		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	78		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	73		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	70		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY

Client ID: SB5 0-2

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	77		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	84		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 23, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	11:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79849

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/17/13	LK	SW6010	
Aluminum	7540	55	mg/Kg	05/17/13	LK	SW6010	
Arsenic	1.7	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	49.0	0.37	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.37	0.29	mg/Kg	05/17/13	LK	SW6010	
Calcium	1240	5.5	mg/Kg	05/17/13	LK	SW6010	
Cadmium	< 0.37	0.37	mg/Kg	05/17/13	LK	SW6010	
Cobalt	4.54	0.37	mg/Kg	05/17/13	LK	SW6010	
Chromium	20.6	0.37	mg/Kg	05/17/13	LK	SW6010	
Copper	19.2	0.37	mg/kg	05/17/13	LK	SW6010	
Iron	20200	55	mg/Kg	05/17/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/17/13	RS	SW-7471	
Potassium	2040	5.5	mg/Kg	05/17/13	LK	SW6010	
Magnesium	4260	5.5	mg/Kg	05/17/13	LK	SW6010	
Manganese	255	3.7	mg/Kg	05/17/13	LK	SW6010	
Sodium	205	5.5	mg/Kg	05/17/13	LK	SW6010	
Nickel	18.0	0.37	mg/Kg	05/17/13	LK	SW6010	B
Lead	5.21	0.37	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	29.8	0.37	mg/Kg	05/17/13	LK	SW6010	
Zinc	30.5	0.37	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	95		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 12-14

Phoenix I.D.: BD79849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	70	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	70	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	80		%	05/17/13	AW	30 - 150 %	
% TCMX	74		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.1	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	ND	2.1	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	ND	2.1	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.3	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Chlordane	ND	10	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	6.7	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	6.7	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	6.7	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	6.7	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	6.7	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.1	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.3	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	33	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	33	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	72		%	05/17/13	MH	30 - 150 %	
% TCMX	66		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 12-14

Phoenix I.D.: BD79849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	33	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.3	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	33	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	5.5	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	97		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	113		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	103		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	350	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	550	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 12-14

Phoenix I.D.: BD79849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1000	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	1000	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	410	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	350	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	520	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	350	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	350	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	350	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	350	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	ND	240	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	350	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	78		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	75		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	72		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB5 12-14

Phoenix I.D.: BD79849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	79		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	89		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	11:20
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79850

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.40	0.40	mg/Kg	05/17/13	LK	SW6010	
Aluminum	7350	59	mg/Kg	05/17/13	LK	SW6010	
Arsenic	4.4	0.8	mg/Kg	05/17/13	LK	SW6010	
Barium	80.7	0.40	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.35	0.32	mg/Kg	05/17/13	LK	SW6010	
Calcium	43700	59	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.48	0.40	mg/Kg	05/17/13	LK	SW6010	
Cobalt	4.26	0.40	mg/Kg	05/17/13	LK	SW6010	
Chromium	18.9	0.40	mg/Kg	05/17/13	LK	SW6010	
Copper	24.0	0.40	mg/kg	05/17/13	LK	SW6010	
Iron	18100	59	mg/Kg	05/17/13	LK	SW6010	
Mercury	0.23	0.07	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1430	5.9	mg/Kg	05/17/13	LK	SW6010	
Magnesium	7950	59	mg/Kg	05/17/13	LK	SW6010	
Manganese	302	4.0	mg/Kg	05/17/13	LK	SW6010	
Sodium	709	5.9	mg/Kg	05/17/13	LK	SW6010	
Nickel	14.4	0.40	mg/Kg	05/17/13	LK	SW6010	B
Lead	513	4.0	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 4.0	4.0	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.6	1.6	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	25.6	0.40	mg/Kg	05/17/13	LK	SW6010	
Zinc	82.4	0.40	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	89		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 0-2

Phoenix I.D.: BD79850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	74	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	74	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	05/17/13	AW	30 - 150 %	
% TCMX	69		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDE	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDT	ND*	11	ug/Kg	05/20/13	MH	SW8081	
a-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Alachlor	ND*	18	ug/Kg	05/20/13	MH	SW8081	1
Aldrin	ND*	5.5	ug/Kg	05/20/13	MH	SW8081	
b-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Chlordane	75	55	ug/Kg	05/20/13	MH	SW8081	
d-BHC	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Dieldrin	ND*	5.5	ug/Kg	05/20/13	MH	SW8081	
Endosulfan I	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Endosulfan II	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endosulfan sulfate	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endrin	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endrin aldehyde	ND*	35	ug/Kg	05/20/13	MH	SW8081	
Endrin ketone	ND*	35	ug/Kg	05/20/13	MH	SW8081	
g-BHC	ND*	5.5	ug/Kg	05/20/13	MH	SW8081	
Heptachlor	ND*	11	ug/Kg	05/20/13	MH	SW8081	
Heptachlor epoxide	ND*	18	ug/Kg	05/20/13	MH	SW8081	
Methoxychlor	ND*	180	ug/Kg	05/20/13	MH	SW8081	
Toxaphene	ND*	180	ug/Kg	05/20/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	89		%	05/20/13	MH	30 - 150 %	
% TCMX	96		%	05/20/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 0-2

Phoenix I.D.: BD79850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	94		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	92		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	95		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1800	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	2900	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	2900	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1800	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	2900	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5300	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1800	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	2900	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 0-2

Phoenix I.D.: BD79850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	5300	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	5300	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	2200	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	5300	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	11000	1300	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	2700	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	1600	1300	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	1500	1300	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	70		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	102		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	72		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	73		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 0-2

Phoenix I.D.: BD79850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	80		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	116		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	11:40
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79851

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	05/17/13	LK	SW6010	
Aluminum	4310	50	mg/Kg	05/17/13	LK	SW6010	
Arsenic	1.1	0.7	mg/Kg	05/17/13	LK	SW6010	
Barium	30.6	0.33	mg/Kg	05/17/13	LK	SW6010	
Beryllium	< 0.27	0.27	mg/Kg	05/17/13	LK	SW6010	
Calcium	1320	5.0	mg/Kg	05/17/13	LK	SW6010	
Cadmium	0.38	0.33	mg/Kg	05/17/13	LK	SW6010	
Cobalt	9.26	0.33	mg/Kg	05/17/13	LK	SW6010	
Chromium	15.6	0.33	mg/Kg	05/17/13	LK	SW6010	
Copper	14.1	0.33	mg/kg	05/17/13	LK	SW6010	
Iron	25600	50	mg/Kg	05/17/13	LK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	05/17/13	RS	SW-7471	
Potassium	1040	5.0	mg/Kg	05/17/13	LK	SW6010	
Magnesium	1990	5.0	mg/Kg	05/17/13	LK	SW6010	
Manganese	420	3.3	mg/Kg	05/17/13	LK	SW6010	
Sodium	84.4	5.0	mg/Kg	05/17/13	LK	SW6010	
Nickel	18.8	0.33	mg/Kg	05/17/13	LK	SW6010	B
Lead	4.30	0.33	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.3	3.3	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.5	0.5	mg/Kg	05/17/13	LK	SW6010	
Vanadium	29.8	0.33	mg/Kg	05/17/13	LK	SW6010	
Zinc	20.0	0.33	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	98		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 12-14

Phoenix I.D.: BD79851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	67	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	67	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	05/17/13	AW	30 - 150 %	
% TCMX	70		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDE	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
4,4' -DDT	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
a-BHC	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Alachlor	ND	3.2	ug/Kg	05/17/13	MH	SW8081	1
Aldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
b-BHC	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Chlordane	ND	10	ug/Kg	05/17/13	MH	SW8081	
d-BHC	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Dieldrin	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Endosulfan I	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Endosulfan II	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endosulfan sulfate	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endrin	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endrin aldehyde	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
Endrin ketone	ND	6.5	ug/Kg	05/17/13	MH	SW8081	
g-BHC	ND	1.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor	ND	2.0	ug/Kg	05/17/13	MH	SW8081	
Heptachlor epoxide	ND	3.2	ug/Kg	05/17/13	MH	SW8081	
Methoxychlor	ND	32	ug/Kg	05/17/13	MH	SW8081	
Toxaphene	ND	32	ug/Kg	05/17/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	78		%	05/17/13	MH	30 - 150 %	
% TCMX	69		%	05/17/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
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Phoenix I.D.: BD79851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	29	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	29	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	34	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.4	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	34	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	5.7	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	112		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	83		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	104		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	95		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	330	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	530	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	230	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	530	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	230	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	530	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	960	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	330	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	230	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	230	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	530	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 12-14

Phoenix I.D.: BD79851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	960	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	960	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	400	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	960	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	ND	500	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	330	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	330	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	ND	230	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	330	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	80		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	68		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	72		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: SB6 12-14

Phoenix I.D.: BD79851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	75		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	92		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 23, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	0:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79852

Project ID: FULTON ST., BROOKLYN, NY
Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.38	0.38	mg/Kg	05/17/13	LK	SW6010	
Aluminum	7830	57	mg/Kg	05/17/13	LK	SW6010	
Arsenic	9.0	0.8	mg/Kg	05/17/13	LK	SW6010	
Barium	323	0.38	mg/Kg	05/17/13	LK	SW6010	
Beryllium	0.42	0.30	mg/Kg	05/17/13	LK	SW6010	
Calcium	5370	5.7	mg/Kg	05/17/13	LK	SW6010	
Cadmium	1.77	0.38	mg/Kg	05/17/13	LK	SW6010	
Cobalt	8.10	0.38	mg/Kg	05/17/13	LK	SW6010	
Chromium	34.9	0.38	mg/Kg	05/17/13	LK	SW6010	
Copper	57.1	0.38	mg/kg	05/17/13	LK	SW6010	
Iron	38900	57	mg/Kg	05/17/13	LK	SW6010	
Mercury	1.47	0.06	mg/Kg	05/17/13	RS	SW-7471	
Potassium	841	5.7	mg/Kg	05/17/13	LK	SW6010	
Magnesium	2380	5.7	mg/Kg	05/17/13	LK	SW6010	
Manganese	410	3.8	mg/Kg	05/17/13	LK	SW6010	
Sodium	103	57	mg/Kg	05/17/13	LK	SW6010	
Nickel	27.0	0.38	mg/Kg	05/17/13	LK	SW6010	B
Lead	869	3.8	mg/Kg	05/17/13	LK	SW6010	
Antimony	< 3.8	3.8	mg/Kg	05/17/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/17/13	LK	SW6010	
Thallium	< 0.6	0.6	mg/Kg	05/17/13	LK	SW6010	
Vanadium	24.0	0.38	mg/Kg	05/17/13	LK	SW6010	
Zinc	563	3.8	mg/Kg	05/17/13	LK	SW6010	
Percent Solid	90		%	05/16/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/16/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			05/16/13	BB	SW3545	
Soil Extraction for SVOA	Completed			05/16/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/17/13	Z/Z	SW7471	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: DUPLICATE

Phoenix I.D.: BD79852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/16/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			05/15/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1221	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1232	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1242	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1248	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1254	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1260	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1262	ND	72	ug/Kg	05/17/13	AW	SW 8082	
PCB-1268	ND	72	ug/Kg	05/17/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	86		%	05/17/13	AW	30 - 150 %	
% TCMX	65		%	05/17/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDE	ND*	11	ug/Kg	05/20/13	MH	SW8081	
4,4' -DDT	ND*	11	ug/Kg	05/20/13	MH	SW8081	
a-BHC	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Alachlor	ND*	17	ug/Kg	05/20/13	MH	SW8081	1
Aldrin	ND*	5.4	ug/Kg	05/20/13	MH	SW8081	
b-BHC	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Chlordane	ND*	54	ug/Kg	05/20/13	MH	SW8081	
d-BHC	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Dieldrin	ND*	5.4	ug/Kg	05/20/13	MH	SW8081	
Endosulfan I	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Endosulfan II	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endosulfan sulfate	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endrin	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endrin aldehyde	ND*	34	ug/Kg	05/20/13	MH	SW8081	
Endrin ketone	ND*	34	ug/Kg	05/20/13	MH	SW8081	
g-BHC	ND*	5.4	ug/Kg	05/20/13	MH	SW8081	
Heptachlor	ND*	11	ug/Kg	05/20/13	MH	SW8081	
Heptachlor epoxide	ND*	17	ug/Kg	05/20/13	MH	SW8081	
Methoxychlor	ND*	170	ug/Kg	05/20/13	MH	SW8081	
Toxaphene	ND*	170	ug/Kg	05/20/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	91		%	05/20/13	MH	30 - 150 %	
% TCMX	94		%	05/20/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	05/17/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,1-Dichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	

Project ID: FULTON ST., BROOKLYN, NY
Client ID: DUPLICATE

Phoenix I.D.: BD79852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dibromoethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,2-Dichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,3-Dichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
2,2-Dichloropropane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
2-Chlorotoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
2-Hexanone	ND	19	ug/Kg	05/17/13	R/J	SW8260	
2-Isopropyltoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	1
4-Chlorotoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	19	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	22	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	2.2	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	22	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	7.4	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	7.4	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	7.4	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	3.7	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	93		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	105		%	05/17/13	R/J	70 - 130 %	
% Toluene-d8	96		%	05/17/13	R/J	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1800	ug/Kg	05/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	2900	ug/Kg	05/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	05/17/13	DD	SW 8270
2-Nitroaniline	ND	2900	ug/Kg	05/17/13	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1800	ug/Kg	05/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	05/17/13	DD	SW 8270
3-Nitroaniline	ND	2900	ug/Kg	05/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5300	ug/Kg	05/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1800	ug/Kg	05/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	05/17/13	DD	SW 8270
4-Nitroaniline	ND	2900	ug/Kg	05/17/13	DD	SW 8270

Project ID: FULTON ST., BROOKLYN, NY
Client ID: DUPLICATE

Phoenix I.D.: BD79852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	5300	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Acenaphthylene	2000	1300	ug/Kg	05/17/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Aniline	ND	5300	ug/Kg	05/17/13	DD	SW 8270	
Anthracene	3200	1300	ug/Kg	05/17/13	DD	SW 8270	
Benz(a)anthracene	11000	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzidine	ND	2200	ug/Kg	05/17/13	DD	SW 8270	
Benzo(a)pyrene	10000	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(b)fluoranthene	15000	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(ghi)perylene	3300	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzo(k)fluoranthene	4800	1300	ug/Kg	05/17/13	DD	SW 8270	
Benzoic acid	ND	5300	ug/Kg	05/17/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	05/17/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Carbazole	4700	2700	ug/Kg	05/17/13	DD	SW 8270	
Chrysene	13000	1300	ug/Kg	05/17/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dibenzofuran	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Fluoranthene	21000	1300	ug/Kg	05/17/13	DD	SW 8270	
Fluorene	1700	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	3300	1300	ug/Kg	05/17/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Pentachloronitrobenzene	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Pentachlorophenol	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
Phenanthrene	16000	1300	ug/Kg	05/17/13	DD	SW 8270	
Phenol	ND	1300	ug/Kg	05/17/13	DD	SW 8270	
Pyrene	18000	1300	ug/Kg	05/17/13	DD	SW 8270	
Pyridine	ND	1800	ug/Kg	05/17/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	05/17/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	91		%	05/17/13	DD	30 - 130 %	
% 2-Fluorophenol	67		%	05/17/13	DD	30 - 130 %	
% Nitrobenzene-d5	71		%	05/17/13	DD	30 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY

Client ID: DUPLICATE

Phoenix I.D.: BD79852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	74		%	05/17/13	DD	30 - 130 %
% Terphenyl-d14	101		%	05/17/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

May 23, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	0:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79853

Project ID: FULTON ST., BROOKLYN, NY
Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	05/15/13		E160.3
Field Extraction	Completed			05/15/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	05/17/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	05/17/13	R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	05/17/13	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	05/17/13	R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	05/17/13	R/J	SW8260 1
4-Chlorotoluene	ND	250	ug/Kg	05/17/13	R/J	SW8260

Project ID: FULTON ST., BROOKLYN, NY
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BD79853

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1300	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	5000	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	500	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	250	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	3000	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	500	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
p-Isopropyltoluene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	500	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	250	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	250	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	250	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	94		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	104		%	05/17/13	R/J	70 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY

Client ID: TRIP BLANK HIGH

Phoenix I.D.: BD79853

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	102		%	05/17/13	R/J	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 23, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/15/13	0:00
Location Code:	EBC	Received by:	LB	05/16/13	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD79840
Phoenix ID: BD79854

Project ID: FULTON ST., BROOKLYN, NY
Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	05/15/13		E160.3
Field Extraction	Completed			05/15/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	05/17/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	05/17/13	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260 1
4-Chlorotoluene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260

Project ID: FULTON ST., BROOKLYN, NY
Client ID: TRIP BLANK LOW

Phoenix I.D.: BD79854

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	25	ug/Kg	05/17/13	R/J	SW8260	
Acetone	ND	50	ug/Kg	05/17/13	R/J	SW8260	
Acrylonitrile	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Benzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Bromobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Bromochloromethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Bromodichloromethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Bromoform	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Bromomethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Carbon Disulfide	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Carbon tetrachloride	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Chlorobenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Chloroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Chloroform	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Chloromethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	1
Dibromochloromethane	ND	3.0	ug/Kg	05/17/13	R/J	SW8260	
Dibromomethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Ethylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Isopropylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
m&p-Xylene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	30	ug/Kg	05/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	05/17/13	R/J	SW8260	
Methylene chloride	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Naphthalene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
n-Butylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
n-Propylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
o-Xylene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
sec-Butylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Styrene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
tert-Butylbenzene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Tetrachloroethene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	10	ug/Kg	05/17/13	R/J	SW8260	1
Toluene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Total Xylenes	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	05/17/13	R/J	SW8260	
Trichloroethene	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
Vinyl chloride	ND	5.0	ug/Kg	05/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	05/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	96		%	05/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	109		%	05/17/13	R/J	70 - 130 %	

Project ID: FULTON ST., BROOKLYN, NY

Phoenix I.D.: BD79854

Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	103		%	05/17/13	R/J	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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Phyllis Shiller, Laboratory Director

May 23, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 23, 2013

QA/QC Data

SDG I.D.: GBD79840

QA/QC Batch 230643, QC Sample No: BD79386 (BD79840, BD79841, BD79842, BD79843, BD79844, BD79845, BD79846, BD79847, BD79848, BD79849, BD79850, BD79851, BD79852)

ICP Metals - Soil

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aluminum	BRL	3440	2900	17.0	101	101	0.0	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.5	<3.5	NC	94.0	78.9	17.5	90.4	95.0	5.0	75 - 125	30	
Arsenic	BRL	2.3	2.02	NC	96.7	97.4	0.7	95.6	94.9	0.7	75 - 125	30	
Barium	BRL	20.8	16.9	20.7	101	99.2	1.8	102	106	3.8	75 - 125	30	
Beryllium	BRL	<0.28	<0.28	NC	100	100	0.0	93.2	93.5	0.3	75 - 125	30	
Cadmium	BRL	<0.35	<0.35	NC	103	105	1.9	89.6	89.8	0.2	75 - 125	30	
Calcium	BRL	60800	75100	21.0	99.9	98.0	1.9	NC	NC	NC	75 - 125	30	
Chromium	BRL	5.11	4.70	8.40	104	100	3.9	94.4	94.5	0.1	75 - 125	30	
Cobalt	BRL	4.22	3.29	24.8	103	102	1.0	90.9	91.0	0.1	75 - 125	30	
Copper	BRL	8.12	6.98	15.1	106	103	2.9	103	101	2.0	75 - 125	30	
Iron	BRL	12100	9590	23.1	102	98.5	3.5	NC	NC	NC	75 - 125	30	
Lead	BRL	2.94	2.85	3.10	97.7	97.0	0.7	90.4	90.3	0.1	75 - 125	30	
Magnesium	BRL	16500	20300	20.7	105	106	0.9	NC	NC	NC	75 - 125	30	
Manganese	BRL	184	248	29.6	99.8	99.4	0.4	99.5	98.2	1.3	75 - 125	30	
Nickel	0.42	6.83	6.35	7.30	104	101	2.9	89.2	89.4	0.2	75 - 125	30	
Potassium	BRL	810	801	1.10	89.5	89.2	0.3	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<0.7	<0.7	NC	89.1	89.3	0.2	87.2	87.0	0.2	75 - 125	30	
Silver	BRL	<0.35	<0.35	NC	91.5	96.1	4.9	101	100	1.0	75 - 125	30	
Sodium	BRL	115	134	15.3	111	110	0.9	>130	106	NC	75 - 125	30	m
Thallium	BRL	<3.1	<3.2	NC	94.8	99.0	4.3	91.4	91.4	0.0	75 - 125	30	
Vanadium	BRL	13.0	10.2	24.1	103	100	3.0	96.4	96.2	0.2	75 - 125	30	
Zinc	BRL	26.7	19.6	30.7	99.0	97.0	2.0	90.9	90.0	1.0	75 - 125	30	r

QA/QC Batch 230854, QC Sample No: BD79845 (BD79840, BD79841, BD79842, BD79843, BD79844, BD79845, BD79846, BD79847, BD79848, BD79849, BD79850, BD79851, BD79852)

Mercury - Soil	BRL	<0.06	<0.06	NC	96.7	103	6.3	101	100	1.0	70 - 130	30	

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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QA/QC Report

May 23, 2013

QA/QC Data

SDG I.D.: GBD79840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 231140, QC Sample No: BD69544 (BD79847)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	100	97	3.0	98	104	5.9	70 - 130	30	
1,1,1-Trichloroethane	ND	113	108	4.5	108	108	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	95	93	2.1	95	100	5.1	70 - 130	30	
1,1,2-Trichloroethane	ND	110	107	2.8	102	106	3.8	70 - 130	30	
1,1-Dichloroethane	ND	117	111	5.3	112	117	4.4	70 - 130	30	
1,1-Dichloroethene	ND	116	115	0.9	86	90	4.5	70 - 130	30	
1,1-Dichloropropene	ND	111	107	3.7	107	114	6.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	84	79	6.1	88	98	10.8	70 - 130	30	
1,2,3-Trichloropropane	ND	93	94	1.1	89	91	2.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	84	77	8.7	92	106	14.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	97	93	4.2	95	106	10.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	89	89	0.0	80	83	3.7	70 - 130	30	
1,2-Dibromoethane	ND	102	101	1.0	102	105	2.9	70 - 130	30	
1,2-Dichlorobenzene	ND	91	88	3.4	92	101	9.3	70 - 130	30	
1,2-Dichloroethane	ND	102	100	2.0	99	102	3.0	70 - 130	30	
1,2-Dichloropropane	ND	109	106	2.8	105	112	6.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	96	92	4.3	94	104	10.1	70 - 130	30	
1,3-Dichlorobenzene	ND	94	90	4.3	95	105	10.0	70 - 130	30	
1,3-Dichloropropane	ND	96	94	2.1	96	100	4.1	70 - 130	30	
1,4-Dichlorobenzene	ND	92	88	4.4	94	104	10.1	70 - 130	30	
2,2-Dichloropropane	ND	120	110	8.7	127	132	3.9	70 - 130	30	m
2-Chlorotoluene	ND	97	93	4.2	94	104	10.1	70 - 130	30	
2-Hexanone	ND	86	87	1.2	55	50	9.5	70 - 130	30	m
2-Isopropyltoluene	ND	93	88	5.5	92	103	11.3	70 - 130	30	
4-Chlorotoluene	ND	94	89	5.5	95	105	10.0	70 - 130	30	
4-Methyl-2-pentanone	ND	105	108	2.8	91	89	2.2	70 - 130	30	
Acetone	ND	112	113	0.9	54	<40	NC	70 - 130	30	m
Acrylonitrile	ND	110	109	0.9	100	101	1.0	70 - 130	30	
Benzene	ND	107	104	2.8	104	111	6.5	70 - 130	30	
Bromobenzene	ND	94	92	2.2	91	100	9.4	70 - 130	30	
Bromochloromethane	ND	118	117	0.9	114	118	3.4	70 - 130	30	
Bromodichloromethane	ND	108	104	3.8	104	108	3.8	70 - 130	30	
Bromoform	ND	103	103	0.0	95	97	2.1	70 - 130	30	
Bromomethane	ND	102	101	1.0	58	74	24.2	70 - 130	30	m
Carbon Disulfide	ND	115	114	0.9	94	98	4.2	70 - 130	30	
Carbon tetrachloride	ND	105	101	3.9	101	107	5.8	70 - 130	30	
Chlorobenzene	ND	99	96	3.1	98	105	6.9	70 - 130	30	
Chloroethane	ND	109	105	3.7	46	46	0.0	70 - 130	30	m
Chloroform	ND	116	112	3.5	113	115	1.8	70 - 130	30	
Chloromethane	ND	112	113	0.9	114	122	6.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	137	148	7.7	110	115	4.4	70 - 130	30	I

QA/QC Data

SDG I.D.: GBD79840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	104	101	2.9	105	111	5.6	70 - 130	30	
Dibromochloromethane	ND	98	96	2.1	95	100	5.1	70 - 130	30	
Dibromomethane	ND	105	104	1.0	99	104	4.9	70 - 130	30	
Dichlorodifluoromethane	ND	136	130	4.5	131	131	0.0	70 - 130	30	l,m
Ethylbenzene	ND	101	96	5.1	100	108	7.7	70 - 130	30	
Hexachlorobutadiene	ND	79	68	15.0	88	102	14.7	70 - 130	30	l
Isopropylbenzene	ND	99	97	2.0	95	105	10.0	70 - 130	30	
m&p-Xylene	ND	103	99	4.0	103	111	7.5	70 - 130	30	
Methyl ethyl ketone	ND	96	94	2.1	62	49	23.4	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	104	101	2.9	114	121	6.0	70 - 130	30	
Methylene chloride	ND	105	103	1.9	105	111	5.6	70 - 130	30	
Naphthalene	ND	86	86	0.0	85	91	6.8	70 - 130	30	
n-Butylbenzene	ND	92	85	7.9	95	107	11.9	70 - 130	30	
n-Propylbenzene	ND	100	96	4.1	97	108	10.7	70 - 130	30	
o-Xylene	ND	107	103	3.8	106	113	6.4	70 - 130	30	
p-Isopropyltoluene	ND	96	90	6.5	96	108	11.8	70 - 130	30	
sec-Butylbenzene	ND	94	89	5.5	94	103	9.1	70 - 130	30	
Styrene	ND	103	99	4.0	106	113	6.4	70 - 130	30	
tert-Butylbenzene	ND	96	92	4.3	92	102	10.3	70 - 130	30	
Tetrachloroethene	ND	100	97	3.0	100	108	7.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	107	114	6.3	98	96	2.1	70 - 130	30	
Toluene	ND	108	105	2.8	104	112	7.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	116	115	0.9	112	121	7.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	104	100	3.9	109	114	4.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	97	94	3.1	91	96	5.3	70 - 130	30	
Trichloroethene	ND	110	108	1.8	103	108	4.7	70 - 130	30	
Trichlorofluoromethane	ND	119	113	5.2	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	114	112	1.8	98	99	1.0	70 - 130	30	
Vinyl chloride	ND	116	116	0.0	121	125	3.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	100	99	1.0	98	98	0.0	70 - 130	30	
% Bromofluorobenzene	99	103	102	1.0	104	102	1.9	70 - 130	30	
% Dibromofluoromethane	104	106	100	5.8	101	105	3.9	70 - 130	30	
% Toluene-d8	102	102	100	2.0	101	100	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 231352, QC Sample No: BD69855 (BD79850, BD79851, BD79852)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	102	105	2.9				70 - 130	30	
1,1,1-Trichloroethane	ND	91	92	1.1				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	76	83	8.8				70 - 130	30	
1,1,2-Trichloroethane	ND	90	94	4.3				70 - 130	30	
1,1-Dichloroethane	ND	91	93	2.2				70 - 130	30	
1,1-Dichloroethene	ND	80	85	6.1				70 - 130	30	
1,1-Dichloropropene	ND	95	96	1.0				70 - 130	30	
1,2,3-Trichlorobenzene	ND	89	88	1.1				70 - 130	30	
1,2,3-Trichloropropane	ND	84	91	8.0				70 - 130	30	
1,2,4-Trichlorobenzene	ND	87	84	3.5				70 - 130	30	
1,2,4-Trimethylbenzene	ND	87	88	1.1				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	104	106	1.9				70 - 130	30	
1,2-Dibromoethane	ND	90	95	5.4				70 - 130	30	
1,2-Dichlorobenzene	ND	87	89	2.3				70 - 130	30	
1,2-Dichloroethane	ND	91	95	4.3				70 - 130	30	

QA/QC Data

SDG I.D.: GBD79840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloropropane	ND	93	94	1.1				70 - 130	30	
1,3,5-Trimethylbenzene	ND	87	88	1.1				70 - 130	30	
1,3-Dichlorobenzene	ND	89	89	0.0				70 - 130	30	
1,3-Dichloropropane	ND	89	92	3.3				70 - 130	30	
1,4-Dichlorobenzene	ND	85	86	1.2				70 - 130	30	
2,2-Dichloropropane	ND	89	92	3.3				70 - 130	30	
2-Chlorotoluene	ND	96	97	1.0				70 - 130	30	
2-Hexanone	ND	81	83	2.4				70 - 130	30	
2-Isopropyltoluene	ND	92	93	1.1				70 - 130	30	
4-Chlorotoluene	ND	90	90	0.0				70 - 130	30	
4-Methyl-2-pentanone	ND	89	91	2.2				70 - 130	30	
Acetone	ND	63	72	13.3				70 - 130	30	I
Acrylonitrile	ND	89	97	8.6				70 - 130	30	
Benzene	ND	86	87	1.2				70 - 130	30	
Bromobenzene	ND	97	100	3.0				70 - 130	30	
Bromochloromethane	ND	98	105	6.9				70 - 130	30	
Bromodichloromethane	ND	87	91	4.5				70 - 130	30	
Bromoform	ND	101	103	2.0				70 - 130	30	
Bromomethane	ND	88	96	8.7				70 - 130	30	
Carbon Disulfide	ND	73	79	7.9				70 - 130	30	
Carbon tetrachloride	ND	102	102	0.0				70 - 130	30	
Chlorobenzene	ND	94	95	1.1				70 - 130	30	
Chloroethane	ND	83	89	7.0				70 - 130	30	
Chloroform	ND	84	87	3.5				70 - 130	30	
Chloromethane	ND	98	102	4.0				70 - 130	30	
cis-1,2-Dichloroethene	ND	91	93	2.2				70 - 130	30	
cis-1,3-Dichloropropene	ND	89	90	1.1				70 - 130	30	
Dibromochloromethane	ND	100	104	3.9				70 - 130	30	
Dibromomethane	ND	90	96	6.5				70 - 130	30	
Dichlorodifluoromethane	ND	112	118	5.2				70 - 130	30	
Ethylbenzene	ND	89	87	2.3				70 - 130	30	
Hexachlorobutadiene	ND	94	92	2.2				70 - 130	30	
Isopropylbenzene	ND	96	97	1.0				70 - 130	30	
m&p-Xylene	ND	88	88	0.0				70 - 130	30	
Methyl ethyl ketone	ND	68	77	12.4				70 - 130	30	I
Methyl t-butyl ether (MTBE)	ND	78	81	3.8				70 - 130	30	
Methylene chloride	ND	68	75	9.8				70 - 130	30	I
Naphthalene	ND	92	93	1.1				70 - 130	30	
n-Butylbenzene	ND	80	78	2.5				70 - 130	30	
n-Propylbenzene	ND	96	96	0.0				70 - 130	30	
o-Xylene	ND	90	91	1.1				70 - 130	30	
p-Isopropyltoluene	ND	95	95	0.0				70 - 130	30	
sec-Butylbenzene	ND	85	86	1.2				70 - 130	30	
Styrene	ND	82	84	2.4				70 - 130	30	
tert-Butylbenzene	ND	95	97	2.1				70 - 130	30	
Tetrachloroethene	ND	101	101	0.0				70 - 130	30	
Tetrahydrofuran (THF)	ND	83	88	5.8				70 - 130	30	
Toluene	ND	88	88	0.0				70 - 130	30	
trans-1,2-Dichloroethene	ND	81	83	2.4				70 - 130	30	
trans-1,3-Dichloropropene	ND	87	89	2.3				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	83	87	4.7				70 - 130	30	
Trichloroethene	ND	109	106	2.8				70 - 130	30	
Trichlorofluoromethane	ND	88	93	5.5				70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorotrifluoroethane	ND	92	97	5.3				70 - 130	30	
Vinyl chloride	ND	99	104	4.9				70 - 130	30	
% 1,2-dichlorobenzene-d4	104	100	101	1.0				70 - 130	30	
% Bromofluorobenzene	93	97	98	1.0				70 - 130	30	
% Dibromofluoromethane	98	97	100	3.0				70 - 130	30	
% Toluene-d8	95	94	95	1.1				70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 230804, QC Sample No: BD79783 (BD79840, BD79841, BD79842, BD79843, BD79844, BD79845, BD79846, BD79847, BD79848, BD79849, BD79850, BD79851, BD79852)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	88	87	1.1	88	90	2.2	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	81	86	6.0	80	83	3.7	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	79	95	94	1.1	94	97	3.1	30 - 150	30	
% TCMX (Surrogate Rec)	75	92	92	0.0	92	95	3.2	30 - 150	30	

QA/QC Batch 230801, QC Sample No: BD79783 (BD79840, BD79841, BD79842, BD79843, BD79844, BD79845, BD79846, BD79847, BD79848, BD79849, BD79850, BD79851, BD79852)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	86	87	1.2	86	87	1.2	30 - 130	30	
1,2,4-Trichlorobenzene	ND	84	85	1.2	84	85	1.2	30 - 130	30	
1,2-Dichlorobenzene	ND	78	77	1.3	76	75	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	77	76	1.3	80	81	1.2	30 - 130	30	
1,3-Dichlorobenzene	ND	78	77	1.3	75	75	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	78	78	0.0	76	76	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	93	93	0.0	106	107	0.9	30 - 130	30	
2,4,6-Trichlorophenol	ND	87	86	1.2	94	94	0.0	30 - 130	30	
2,4-Dichlorophenol	ND	86	86	0.0	91	91	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	48	48	0.0	49	49	0.0	30 - 130	30	
2,4-Dinitrophenol	ND	37	36	2.7	13	13	0.0	30 - 130	30	m
2,4-Dinitrotoluene	ND	87	85	2.3	93	94	1.1	30 - 130	30	
2,6-Dinitrotoluene	ND	90	90	0.0	94	94	0.0	30 - 130	30	
2-Chloronaphthalene	ND	88	88	0.0	89	89	0.0	30 - 130	30	
2-Chlorophenol	ND	79	77	2.6	81	80	1.2	30 - 130	30	
2-Methylnaphthalene	ND	86	86	0.0	85	86	1.2	30 - 130	30	
2-Methylphenol (o-cresol)	ND	69	68	1.5	102	97	5.0	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	83	82	1.2	84	84	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	76	76	0.0	77	77	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	126	127	0.8	104	106	1.9	30 - 130	30	
3-Nitroaniline	ND	89	89	0.0	93	93	0.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	80	77	3.8	44	44	0.0	30 - 130	30	
4-Bromophenyl phenyl ether	ND	97	97	0.0	83	82	1.2	30 - 130	30	
4-Chloro-3-methylphenol	ND	82	82	0.0	87	88	1.1	30 - 130	30	
4-Chloroaniline	ND	62	61	1.6	39	44	12.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	90	89	1.1	93	92	1.1	30 - 130	30	

QA/QC Data

SDG I.D.: GBD79840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Nitroaniline	ND	84	84	0.0	87	88	1.1	30 - 130	30	
4-Nitrophenol	ND	82	76	7.6	117	120	2.5	30 - 130	30	
Acenaphthene	ND	88	86	2.3	89	89	0.0	30 - 130	30	
Acenaphthylene	ND	86	86	0.0	89	88	1.1	30 - 130	30	
Acetophenone	ND	78	77	1.3	78	78	0.0	30 - 130	30	
Aniline	ND	53	52	1.9	26	31	17.5	30 - 130	30	m
Anthracene	ND	89	89	0.0	94	92	2.2	30 - 130	30	
Benz(a)anthracene	ND	84	84	0.0	88	87	1.1	30 - 130	30	
Benzidine	ND	104	102	1.9	15	17	12.5	30 - 130	30	m
Benzo(a)pyrene	ND	84	85	1.2	85	86	1.2	30 - 130	30	
Benzo(b)fluoranthene	ND	98	95	3.1	93	96	3.2	30 - 130	30	
Benzo(ghi)perylene	ND	78	81	3.8	96	96	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	96	101	5.1	99	99	0.0	30 - 130	30	
Benzyl butyl phthalate	ND	83	84	1.2	114	113	0.9	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	80	80	0.0	82	83	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	71	70	1.4	101	99	2.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	68	68	0.0	68	68	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	83	84	1.2	101	103	2.0	30 - 130	30	
Carbazole	ND	134	131	2.3	>150	>150	NC	30 - 130	30	l,m
Chrysene	ND	89	88	1.1	91	90	1.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	82	83	1.2	97	97	0.0	30 - 130	30	
Dibenzofuran	ND	87	86	1.2	91	90	1.1	30 - 130	30	
Diethyl phthalate	ND	89	88	1.1	92	92	0.0	30 - 130	30	
Dimethylphthalate	ND	89	89	0.0	91	92	1.1	30 - 130	30	
Di-n-butylphthalate	ND	96	93	3.2	95	95	0.0	30 - 130	30	
Di-n-octylphthalate	ND	87	88	1.1	81	82	1.2	30 - 130	30	
Fluoranthene	ND	108	103	4.7	117	116	0.9	30 - 130	30	
Fluorene	ND	88	87	1.1	93	93	0.0	30 - 130	30	
Hexachlorobenzene	ND	90	90	0.0	82	82	0.0	30 - 130	30	
Hexachlorobutadiene	ND	87	87	0.0	88	87	1.1	30 - 130	30	
Hexachlorocyclopentadiene	ND	84	83	1.2	7.9	7.8	1.3	30 - 130	30	m
Hexachloroethane	ND	78	77	1.3	31	35	12.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	82	83	1.2	97	96	1.0	30 - 130	30	
Isophorone	ND	82	83	1.2	84	84	0.0	30 - 130	30	
Naphthalene	ND	83	83	0.0	84	84	0.0	30 - 130	30	
Nitrobenzene	ND	76	75	1.3	77	77	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	118	118	0.0	110	109	0.9	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	75	75	0.0	76	76	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	95	92	3.2	98	100	2.0	30 - 130	30	
Pentachloronitrobenzene	ND	94	93	1.1	104	106	1.9	30 - 130	30	
Pentachlorophenol	ND	91	87	4.5	130	127	2.3	30 - 130	30	
Phenanthrene	ND	93	91	2.2	94	95	1.1	30 - 130	30	
Phenol	ND	77	76	1.3	81	81	0.0	30 - 130	30	
Pyrene	ND	110	103	6.6	112	113	0.9	30 - 130	30	
Pyridine	ND	107	115	7.2	74	89	18.4	30 - 130	30	
% 2,4,6-Tribromophenol	65	86	83	3.6	83	83	0.0	30 - 130	30	
% 2-Fluorobiphenyl	61	87	86	1.2	86	85	1.2	30 - 130	30	
% 2-Fluorophenol	56	74	72	2.7	72	72	0.0	30 - 130	30	
% Nitrobenzene-d5	57	73	73	0.0	73	73	0.0	30 - 130	30	
% Phenol-d5	61	75	75	0.0	76	76	0.0	30 - 130	30	
% Terphenyl-d14	69	116	110	5.3	114	112	1.8	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 230809, QC Sample No: BD79845 (BD79840, BD79841, BD79842, BD79843, BD79844, BD79845, BD79846, BD79847, BD79848, BD79849, BD79850, BD79851, BD79852)

Pesticides - Soil

4,4' -DDD	ND	91	88	3.4	88	87	1.1	40 - 140	30
4,4' -DDE	ND	85	81	4.8	84	82	2.4	40 - 140	30
4,4' -DDT	ND	85	81	4.8	83	81	2.4	40 - 140	30
a-BHC	ND	90	85	5.7	89	85	4.6	40 - 140	30
a-Chlordane	ND	85	82	3.6	84	82	2.4	40 - 140	30
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
Aldrin	ND	87	82	5.9	85	83	2.4	40 - 140	30
b-BHC	ND	86	84	2.4	84	80	4.9	40 - 140	30
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
d-BHC	ND	85	80	6.1	83	81	2.4	40 - 140	30
Dieldrin	ND	86	83	3.6	85	83	2.4	40 - 140	30
Endosulfan I	ND	80	77	3.8	82	80	2.5	40 - 140	30
Endosulfan II	ND	73	71	2.8	84	83	1.2	40 - 140	30
Endosulfan sulfate	ND	76	74	2.7	82	81	1.2	40 - 140	30
Endrin	ND	83	76	8.8	71	70	1.4	40 - 140	30
Endrin aldehyde	ND	72	71	1.4	89	88	1.1	40 - 140	30
Endrin ketone	ND	87	85	2.3	89	88	1.1	40 - 140	30
g-BHC	ND	83	79	4.9	82	80	2.5	40 - 140	30
g-Chlordane	ND	77	75	2.6	78	77	1.3	40 - 140	30
Heptachlor	ND	86	80	7.2	80	79	1.3	40 - 140	30
Heptachlor epoxide	ND	83	80	3.7	82	80	2.5	40 - 140	30
Methoxychlor	ND	86	84	2.4	83	85	2.4	40 - 140	30
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
% DCBP	74	81	80	1.2	80	79	1.3	30 - 150	30
% TCMX	66	91	87	4.5	90	87	3.4	30 - 150	30

QA/QC Batch 230954, QC Sample No: BD79853 (BD79840, BD79841, BD79842, BD79843, BD79844, BD79845, BD79846, BD79848, BD79849, BD79853 (50X) , BD79854)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	98	98	0.0				70 - 130	30
1,1,1-Trichloroethane	ND	107	106	0.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	90	92	2.2				70 - 130	30
1,1,2-Trichloroethane	ND	100	104	3.9				70 - 130	30
1,1-Dichloroethane	ND	125	140	11.3				70 - 130	30
1,1-Dichloroethene	ND	108	108	0.0				70 - 130	30
1,1-Dichloropropene	ND	105	109	3.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	82	85	3.6				70 - 130	30
1,2,3-Trichloropropane	ND	88	90	2.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	80	84	4.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	95	99	4.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	86	87	1.2				70 - 130	30
1,2-Dibromoethane	ND	98	101	3.0				70 - 130	30
1,2-Dichlorobenzene	ND	89	90	1.1				70 - 130	30
1,2-Dichloroethane	ND	95	96	1.0				70 - 130	30
1,2-Dichloropropane	ND	102	103	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	93	94	1.1				70 - 130	30
1,3-Dichlorobenzene	ND	90	92	2.2				70 - 130	30

QA/QC Data

SDG I.D.: GBD79840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3-Dichloropropane	ND	94	96	2.1				70 - 130	30	
1,4-Dichlorobenzene	ND	88	90	2.2				70 - 130	30	
2,2-Dichloropropane	ND	129	128	0.8				70 - 130	30	
2-Chlorotoluene	ND	95	96	1.0				70 - 130	30	
2-Hexanone	ND	82	82	0.0				70 - 130	30	
2-Isopropyltoluene	ND	92	94	2.2				70 - 130	30	
4-Chlorotoluene	ND	90	92	2.2				70 - 130	30	
4-Methyl-2-pentanone	ND	97	100	3.0				70 - 130	30	
Acetone	ND	86	84	2.4				70 - 130	30	
Acrylonitrile	ND	142	140	1.4				70 - 130	30	I
Benzene	ND	102	104	1.9				70 - 130	30	
Bromobenzene	ND	91	92	1.1				70 - 130	30	
Bromochloromethane	ND	109	108	0.9				70 - 130	30	
Bromodichloromethane	ND	100	102	2.0				70 - 130	30	
Bromoform	ND	98	101	3.0				70 - 130	30	
Bromomethane	ND	113	107	5.5				70 - 130	30	
Carbon Disulfide	ND	109	107	1.9				70 - 130	30	
Carbon tetrachloride	ND	104	105	1.0				70 - 130	30	
Chlorobenzene	ND	97	97	0.0				70 - 130	30	
Chloroethane	ND	104	100	3.9				70 - 130	30	
Chloroform	ND	108	105	2.8				70 - 130	30	
Chloromethane	ND	113	111	1.8				70 - 130	30	
cis-1,2-Dichloroethene	ND	140	137	2.2				70 - 130	30	I
cis-1,3-Dichloropropene	ND	100	103	3.0				70 - 130	30	
Dibromochloromethane	ND	97	98	1.0				70 - 130	30	
Dibromomethane	ND	98	101	3.0				70 - 130	30	
Dichlorodifluoromethane	ND	130	127	2.3				70 - 130	30	
Ethylbenzene	ND	98	100	2.0				70 - 130	30	
Hexachlorobutadiene	ND	77	86	11.0				70 - 130	30	
Isopropylbenzene	ND	98	101	3.0				70 - 130	30	
m&p-Xylene	ND	100	104	3.9				70 - 130	30	
Methyl ethyl ketone	ND	83	81	2.4				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	98	102	4.0				70 - 130	30	
Methylene chloride	ND	95	94	1.1				70 - 130	30	
Naphthalene	ND	85	90	5.7				70 - 130	30	
n-Butylbenzene	ND	89	96	7.6				70 - 130	30	
n-Propylbenzene	ND	98	101	3.0				70 - 130	30	
o-Xylene	ND	104	107	2.8				70 - 130	30	
p-Isopropyltoluene	ND	93	98	5.2				70 - 130	30	
sec-Butylbenzene	ND	92	96	4.3				70 - 130	30	
Styrene	ND	99	100	1.0				70 - 130	30	
tert-Butylbenzene	ND	95	96	1.0				70 - 130	30	
Tetrachloroethene	ND	99	102	3.0				70 - 130	30	
Tetrahydrofuran (THF)	ND	100	100	0.0				70 - 130	30	
Toluene	ND	102	108	5.7				70 - 130	30	
trans-1,2-Dichloroethene	ND	108	106	1.9				70 - 130	30	
trans-1,3-Dichloropropene	ND	102	104	1.9				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	100	101	1.0				70 - 130	30	
Trichloroethene	ND	108	108	0.0				70 - 130	30	
Trichlorofluoromethane	ND	108	104	3.8				70 - 130	30	
Trichlorotrifluoroethane	ND	106	106	0.0				70 - 130	30	
Vinyl chloride	ND	113	111	1.8				70 - 130	30	
% 1,2-dichlorobenzene-d4	103	100	99	1.0				70 - 130	30	

QA/QC Data

SDG I.D.: GBD79840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Bromofluorobenzene	96	103	102	1.0				70 - 130	30
% Dibromofluoromethane	109	105	103	1.9				70 - 130	30
% Toluene-d8	102	101	102	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 23, 2013

Sample Criteria Exceedences Report

GBD79840 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD79840	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	500	330	330	ug/Kg
BD79840	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	500	330	330	ug/Kg
BD79840	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1700	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1700	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1800	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2100	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2100	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1500	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	500	1000	1000	ug/Kg
BD79840	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	500	330	330	ug/Kg
BD79840	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	500	330	330	ug/Kg
BD79840	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	500	330	330	ug/Kg
BD79840	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.4	5.3	5	5	ug/Kg
BD79840	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79840	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.3	5	5	ug/Kg
BD79840	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	34	14	14	ug/Kg
BD79840	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79840	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79840	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	19.5	0.37	1	1	mg/Kg
BD79840	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	124	0.37	63	63	mg/Kg
BD79840	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	140	0.37	109	109	mg/Kg
BD79841	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	7.49	0.36	1	1	mg/Kg
BD79842	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.8	2.1	3.3	3.3	ug/Kg
BD79842	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	13	2.1	3.3	3.3	ug/Kg
BD79842	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	19.5	0.36	1	1	mg/Kg
BD79842	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.61	0.08	0.81	0.81	mg/Kg
BD79842	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.61	0.08	0.81	0.81	mg/Kg
BD79842	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.61	0.08	0.18	0.18	mg/Kg
BD79842	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	238	3.6	63	63	mg/Kg
BD79842	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	239	3.6	109	109	mg/Kg
BD79843	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	29.7	0.39	1	1	mg/Kg
BD79844	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79844	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79844	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1900	800	800	ug/Kg
BD79844	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	3400	1300	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBD79840 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD79844	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	3400	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4000	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4000	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4000	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	800	800	ug/Kg
BD79844	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2900	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2900	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2900	1300	1000	1000	ug/Kg
BD79844	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1400	1300	500	500	ug/Kg
BD79844	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	1300	500	500	ug/Kg
BD79844	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	1300	500	500	ug/Kg
BD79844	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	330	330	ug/Kg
BD79844	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	330	330	ug/Kg
BD79844	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79844	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.6	5	5	ug/Kg
BD79844	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79844	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.6	5	5	ug/Kg
BD79844	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	14	14	ug/Kg
BD79844	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79844	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	30	11	3.3	3.3	ug/Kg
BD79844	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	20.9	0.37	1	1	mg/Kg
BD79844	PB-SM	Lead	NY / 375-6.8 Metals / Residential	462	3.7	400	400	mg/Kg
BD79844	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	462	3.7	400	400	mg/Kg
BD79844	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	462	3.7	63	63	mg/Kg
BD79844	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	374	3.7	109	109	mg/Kg
BD79845	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	10.9	0.31	1	1	mg/Kg
BD79846	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	510	330	330	ug/Kg
BD79846	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	510	330	330	ug/Kg
BD79846	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	6900	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	6900	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6900	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	7300	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	7300	510	3900	3900	ug/Kg
BD79846	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7300	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	7500	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	7500	510	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBD79840 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD79846	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7500	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2800	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2800	510	800	800	ug/Kg
BD79846	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	5900	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5900	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5900	510	1000	1000	ug/Kg
BD79846	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	2600	510	500	500	ug/Kg
BD79846	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2600	510	500	500	ug/Kg
BD79846	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	510	500	500	ug/Kg
BD79846	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	840	510	330	330	ug/Kg
BD79846	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	840	510	330	330	ug/Kg
BD79846	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	840	510	330	330	ug/Kg
BD79846	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79846	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	9.2	5	5	ug/Kg
BD79846	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	35	14	14	ug/Kg
BD79846	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79846	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79846	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	24.9	0.36	1	1	mg/Kg
BD79846	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.27	0.08	0.18	0.18	mg/Kg
BD79846	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	143	0.36	63	63	mg/Kg
BD79846	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	143	0.36	109	109	mg/Kg
BD79847	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	19.0	0.32	1	1	mg/Kg
BD79848	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	14	7.0	3.3	3.3	ug/Kg
BD79848	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.4	7.0	3.3	3.3	ug/Kg
BD79848	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	230	35	3.3	3.3	ug/Kg
BD79848	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	13.4	0.36	1	1	mg/Kg
BD79848	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.37	0.08	0.18	0.18	mg/Kg
BD79848	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	199	3.6	63	63	mg/Kg
BD79849	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	20.6	0.37	1	1	mg/Kg
BD79850	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79850	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79850	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1800	800	800	ug/Kg
BD79850	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBD79840 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD79850	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	800	800	ug/Kg
BD79850	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	1000	1000	ug/Kg
BD79850	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	500	500	ug/Kg
BD79850	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	500	500	ug/Kg
BD79850	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	500	500	ug/Kg
BD79850	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	330	330	ug/Kg
BD79850	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	330	330	ug/Kg
BD79850	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79850	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.5	5	5	ug/Kg
BD79850	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79850	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.5	5	5	ug/Kg
BD79850	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	35	14	14	ug/Kg
BD79850	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79850	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79850	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	18.9	0.40	1	1	mg/Kg
BD79850	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.23	0.07	0.18	0.18	mg/Kg
BD79850	PB-SM	Lead	NY / 375-6.8 Metals / Residential	513	4.0	400	400	mg/Kg
BD79850	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	513	4.0	400	400	mg/Kg
BD79850	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	513	4.0	63	63	mg/Kg
BD79851	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	15.6	0.33	1	1	mg/Kg
BD79852	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79852	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79852	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1800	800	800	ug/Kg
BD79852	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	11000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	11000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	11000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	13000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	13000	1300	3900	3900	ug/Kg
BD79852	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	13000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	15000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	15000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	15000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4800	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4800	1300	3900	3900	ug/Kg
BD79852	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4800	1300	800	800	ug/Kg
BD79852	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	10000	1300	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBD79840 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD79852	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	10000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	10000	1300	1000	1000	ug/Kg
BD79852	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	3300	1300	500	500	ug/Kg
BD79852	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3300	1300	500	500	ug/Kg
BD79852	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	1300	500	500	ug/Kg
BD79852	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	330	330	ug/Kg
BD79852	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	1300	330	330	ug/Kg
BD79852	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BD79852	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.4	5	5	ug/Kg
BD79852	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79852	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.4	5	5	ug/Kg
BD79852	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	34	14	14	ug/Kg
BD79852	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79852	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD79852	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	34.9	0.38	1	1	mg/Kg
BD79852	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	57.1	0.38	50	50	mg/kg
BD79852	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.47	0.06	0.81	0.81	mg/Kg
BD79852	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.47	0.06	0.81	0.81	mg/Kg
BD79852	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.47	0.06	0.18	0.18	mg/Kg
BD79852	PB-SM	Lead	NY / 375-6.8 Metals / Residential	869	3.8	400	400	mg/Kg
BD79852	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	869	3.8	400	400	mg/Kg
BD79852	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	869	3.8	63	63	mg/Kg
BD79852	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	563	3.8	109	109	mg/Kg
BD79853	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BD79853	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BD79853	$8260MER	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	5000	50	50	ug/Kg
BD79853	$8260MER	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	500	50	50	ug/Kg
BD79853	$8260MER	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg
BD79853	$8260MER	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3000	120	120	ug/Kg
BD79853	$8260MER	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BD79853	$8260MER	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

May 23, 2013

SDG I.D.: GBD79840

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

4°w/c + ZP Temp

Data Delivery:
☐ Fax #:
☑ Email: CSOSIreebcincny.com

Customer: EBC
Address: 1808 Middle Country Rd Ridge NY

Project: Fulton St Brooklyn NY
Report to:
Invoice to:

Project P.O:
Phone #: 631 504 6000
Fax #:

Sampler's Signature: [signature] Date: 5-15-13

Client Sample - Information - Identification

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=oil
GW=groundwater **SL**=sludge **A**=air **X**=other

Analysis Request: VOC 8260 / SVOC 8270 / PEST/PCBs / TAL Metals

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC 8260	SVOC 8270	PEST/PCBs	TAL Metals	Soil VOA + Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
79840	SB1 0-2	S	5-15	800	X	X	X	X	3	1								
79841	SB1 12-14			820														
79842	SB2 0-2			840														
79843	SB2 12-14			900														
79844	SB3 0-2			920														
79845	SB3 12-14			940														
79846	SB4 0-2			1000														
79847	SB4 12-14			1020														
79848	SB5 0-2			1040														
79849	SB5 12-14			1100														
*79850	SB6 0-2			1120														
79851	SB6 12-14			1140														

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-16-13	11:12
[signature]	CPGaelice	5-16-13	1540

Comments, Special Requirements or Regulations:

*High * Low level rcvd w/o sample (CP)

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TOGS GA GW
☐ CP-51 Soil
☑ NY375 Unrestricted Soil
☑ NY375 Residential Soil
☑ NY375 Restricted Non-Residential Soil

Data Format
☐ Phoenix Std Report
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

H°W/C+IP Temp Pg 2 of 2

Data Delivery:
- [ ] Fax #:
- [x] Email: csosirecbcinc.com

Customer: EBC
Address: 808 Middle Country Rd Lodge NY

Project: 8 Fulton St Bklyn NY
Report to:
Invoice to:

Project P.O:
Phone #:
Fax #:

Sampler's Signature: [signature] Date: 5-15

Client Sample - Information - Identification

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=oil
GW=groundwater **SL**=sludge **A**=air **X**=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC 8260	SVOC 8270	Pest/PCB	TM metals	Soil VOA Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
79852	Duplicate	S	5-15		X	X	X	X	3	1								
79853	Hi trip blank	W			X				1									
79854	Low trip blank	W			X				2									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-16-15	1112
[signature]	Cpauadise	5-16-13	1540

Comments, Special Requirements or Regulations:

Turnaround:
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [x] 5 Days
- [ ] 10 Days
- [ ] Other

* SURCHARGE APPLIES

NJ
- [ ] Res. Criteria
- [ ] Non-Res. Criteria
- [ ] Impact to GW Soil Cleanup Criteria
- [ ] GW Criteria

NY
- [ ] TOGS GA GW
- [ ] CP-51 Soil
- [x] NY375 Unrestricted Soil
- [x] NY375 Residential Soil
- [x] NY375 Restricted Non-Residential Soil

Data Format
- [ ] Phoenix Std Report
- [x] Excel
- [x] PDF
- [ ] GIS/Key
- [ ] EQuIS
- [ ] NJ Hazsite EDD
- [ ] NY EZ EDD (ASP)
- [ ] Other

Data Package
- [ ] NJ Reduced Deliv. *
- [ ] NY Enhanced (ASP B) *
- [ ] Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 06, 2013

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON ST., BROOKLYN
Sample ID#s: BD85019 - BD85022

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 06, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		05/29/13	13:00
Location Code:	EBC	Received by:	LB	05/30/13	17:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD85019
Phoenix ID: BD85019

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trimethylbenzene	0.96	*0.204*	4.72	*1.00*	05/31/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/31/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.3	*0.204*	1.47	*1.00*	05/31/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/31/13	KCA	TO15	
1,3-Dichlorobenzene	1.77	*0.166*	10.6	*1.00*	05/31/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Ethyltoluene	0.22	*0.204*	1.08	*1.00*	05/31/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.66	*0.244*	2.70	*1.00*	05/31/13	KCA	TO15	
Acetone	49.8	*0.421*	118	*1.00*	05/31/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/31/13	KCA	TO15	
Benzene	0.49	*0.313*	1.56	*1.00*	05/31/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/31/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG3

Phoenix I.D.: BD85019

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/31/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/31/13	KCA	TO15	
Carbon Disulfide	1.29	*0.321*	4.01	*1.00*	05/31/13	KCA	TO15	
Carbon Tetrachloride	0.04	*0.040*	0.251	*0.25*	05/31/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroform	0.53	*0.205*	2.59	*1.00*	05/31/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/31/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	1
Cyclohexane	0.9	*0.291*	3.10	*1.00*	05/31/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/31/13	KCA	TO15	
Dichlorodifluoromethane	1.02	*0.202*	5.04	*1.00*	05/31/13	KCA	TO15	
Ethanol	67	*0.531*	126	*1.00*	05/31/13	KCA	TO15	1
Ethyl acetate	0.94	*0.278*	3.38	*1.00*	05/31/13	KCA	TO15	1
Ethylbenzene	1.59	*0.230*	6.90	*1.00*	05/31/13	KCA	TO15	
Heptane	1.48	*0.244*	6.06	*1.00*	05/31/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/31/13	KCA	TO15	
Hexane	0.9	*0.284*	3.17	*1.00*	05/31/13	KCA	TO15	
Isopropylalcohol	3.28	*0.407*	8.06	*1.00*	05/31/13	KCA	TO15	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	05/31/13	KCA	TO15	
m,p-Xylene	5.05	*0.230*	21.9	*1.00*	05/31/13	KCA	TO15	
Methyl Ethyl Ketone	7.82	*0.339*	23.0	*1.00*	05/31/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
Methylene Chloride	0.34	*0.288*	1.18	*1.00*	05/31/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
o-Xylene	2.01	*0.230*	8.72	*1.00*	05/31/13	KCA	TO15	
Propylene	3.16	*0.581*	5.44	*1.00*	05/31/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/31/13	KCA	TO15	
Tetrachloroethene	0.38	*0.037*	2.58	*0.25*	05/31/13	KCA	TO15	
Tetrahydrofuran	0.98	*0.339*	2.89	*1.00*	05/31/13	KCA	TO15	1
Toluene	4.58	*0.266*	17.2	*1.00*	05/31/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/31/13	KCA	TO15	
Trichlorofluoromethane	1.13	*0.178*	6.34	*1.00*	05/31/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/31/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	107	*%*	107	*%*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN

Phoenix I.D.: BD85019

Client ID: SG3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

June 06, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 06, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		05/29/13	13:12
Location Code:	EBC	Received by:	LB	05/30/13	17:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD85019
Phoenix ID: BD85020

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trimethylbenzene	0.93	*0.204*	4.57	*1.00*	05/31/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/31/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.31	*0.204*	1.52	*1.00*	05/31/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/31/13	KCA	TO15	
1,3-Dichlorobenzene	1.66	*0.166*	9.97	*1.00*	05/31/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Ethyltoluene	0.21	*0.204*	1.03	*1.00*	05/31/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	1.01	*0.244*	4.13	*1.00*	05/31/13	KCA	TO15	
Acetone	63.9	*0.421*	152	*1.00*	05/31/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/31/13	KCA	TO15	
Benzene	0.52	*0.313*	1.66	*1.00*	05/31/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/31/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG1

Phoenix I.D.: BD85020

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/31/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/31/13	KCA	TO15	
Carbon Disulfide	1.18	*0.321*	3.67	*1.00*	05/31/13	KCA	TO15	
Carbon Tetrachloride	0.05	*0.040*	0.314	*0.25*	05/31/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	05/31/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/31/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	1
Cyclohexane	1.59	*0.291*	5.47	*1.00*	05/31/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/31/13	KCA	TO15	
Dichlorodifluoromethane	1.34	*0.202*	6.62	*1.00*	05/31/13	KCA	TO15	
Ethanol	93	*0.531*	175	*1.00*	05/31/13	KCA	TO15	1
Ethyl acetate	1.32	*0.278*	4.75	*1.00*	05/31/13	KCA	TO15	1
Ethylbenzene	1.61	*0.230*	6.99	*1.00*	05/31/13	KCA	TO15	
Heptane	1.33	*0.244*	5.45	*1.00*	05/31/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/31/13	KCA	TO15	
Hexane	1.08	*0.284*	3.80	*1.00*	05/31/13	KCA	TO15	
Isopropylalcohol	6.03	*0.407*	14.8	*1.00*	05/31/13	KCA	TO15	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	05/31/13	KCA	TO15	
m,p-Xylene	4.89	*0.230*	21.2	*1.00*	05/31/13	KCA	TO15	
Methyl Ethyl Ketone	12.8	*0.339*	37.7	*1.00*	05/31/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
Methylene Chloride	0.3	*0.288*	1.04	*1.00*	05/31/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
o-Xylene	1.91	*0.230*	8.29	*1.00*	05/31/13	KCA	TO15	
Propylene	3.98	*0.581*	6.84	*1.00*	05/31/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/31/13	KCA	TO15	
Tetrachloroethene	0.37	*0.037*	2.51	*0.25*	05/31/13	KCA	TO15	
Tetrahydrofuran	0.94	*0.339*	2.77	*1.00*	05/31/13	KCA	TO15	1
Toluene	3.73	*0.266*	14.0	*1.00*	05/31/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/31/13	KCA	TO15	
Trichlorofluoromethane	0.77	*0.178*	4.32	*1.00*	05/31/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/31/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	98	*%*	98	*%*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN

Phoenix I.D.: BD85020

Client ID: SG1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

June 06, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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Analysis Report

June 06, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		05/29/13	13:45
Location Code:	EBC	Received by:	LB	05/30/13	17:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD85019
Phoenix ID: BD85021

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trimethylbenzene	1.41	*0.204*	6.93	*1.00*	05/31/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/31/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.43	*0.204*	2.11	*1.00*	05/31/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/31/13	KCA	TO15	
1,3-Dichlorobenzene	2.35	*0.166*	14.1	*1.00*	05/31/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
2-Hexanone(MBK)	6.34	*0.244*	26.0	*1.00*	05/31/13	KCA	TO15	1
4-Ethyltoluene	0.25	*0.204*	1.23	*1.00*	05/31/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.91	*0.244*	3.72	*1.00*	05/31/13	KCA	TO15	
Acetone	85.3	*0.421*	202	*1.00*	05/31/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/31/13	KCA	TO15	
Benzene	0.42	*0.313*	1.34	*1.00*	05/31/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/31/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG2

Phoenix I.D.: BD85021

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/31/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/31/13	KCA	TO15	
Carbon Disulfide	2.76	*0.321*	8.59	*1.00*	05/31/13	KCA	TO15	
Carbon Tetrachloride	0.04	*0.040*	0.251	*0.25*	05/31/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroform	1.29	*0.205*	6.29	*1.00*	05/31/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/31/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	1
Cyclohexane	1.38	*0.291*	4.75	*1.00*	05/31/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/31/13	KCA	TO15	
Dichlorodifluoromethane	1.39	*0.202*	6.87	*1.00*	05/31/13	KCA	TO15	
Ethanol	90.2	*0.531*	170	*1.00*	05/31/13	KCA	TO15	1
Ethyl acetate	0.51	*0.278*	1.84	*1.00*	05/31/13	KCA	TO15	1
Ethylbenzene	1.41	*0.230*	6.12	*1.00*	05/31/13	KCA	TO15	
Heptane	1.16	*0.244*	4.75	*1.00*	05/31/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/31/13	KCA	TO15	
Hexane	1.16	*0.284*	4.09	*1.00*	05/31/13	KCA	TO15	
Isopropylalcohol	5.1	*0.407*	12.5	*1.00*	05/31/13	KCA	TO15	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	05/31/13	KCA	TO15	
m,p-Xylene	4.81	*0.230*	20.9	*1.00*	05/31/13	KCA	TO15	
Methyl Ethyl Ketone	14.7	*0.339*	43.3	*1.00*	05/31/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	05/31/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
o-Xylene	2.11	*0.230*	9.16	*1.00*	05/31/13	KCA	TO15	
Propylene	6.94	*0.581*	11.9	*1.00*	05/31/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/31/13	KCA	TO15	
Tetrachloroethene	0.36	*0.037*	2.44	*0.25*	05/31/13	KCA	TO15	
Tetrahydrofuran	0.77	*0.339*	2.27	*1.00*	05/31/13	KCA	TO15	1
Toluene	2.82	*0.266*	10.6	*1.00*	05/31/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/31/13	KCA	TO15	
Trichlorofluoromethane	3.08	*0.178*	17.3	*1.00*	05/31/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/31/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	98	*%*	98	*%*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN

Phoenix I.D.: BD85021

Client ID: SG2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

June 06, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 06, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		05/29/13	13:10
Location Code:	EBC	Received by:	LB	05/30/13	17:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD85019
Phoenix ID: BD85022

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/31/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/31/13	KCA	TO15	
1,2,4-Trimethylbenzene	1.43	*0.204*	7.02	*1.00*	05/31/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/31/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/31/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.5	*0.204*	2.46	*1.00*	05/31/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/31/13	KCA	TO15	
1,3-Dichlorobenzene	2.21	*0.166*	13.3	*1.00*	05/31/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/31/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Ethyltoluene	0.4	*0.204*	1.96	*1.00*	05/31/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.94	*0.244*	3.85	*1.00*	05/31/13	KCA	TO15	
Acetone	98.8	*0.421*	234	*1.00*	05/31/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/31/13	KCA	TO15	
Benzene	1.14	*0.313*	3.64	*1.00*	05/31/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/31/13	KCA	TO15	
Bromodichloromethane	0.17	*0.149*	1.14	*1.00*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN
Client ID: SG4

Phoenix I.D.: BD85022

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/31/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/31/13	KCA	TO15	
Carbon Disulfide	3.04	*0.321*	9.46	*1.00*	05/31/13	KCA	TO15	
Carbon Tetrachloride	0.04	*0.040*	0.251	*0.25*	05/31/13	KCA	TO15	
Chlorobenzene	0.28	*0.217*	1.29	*1.00*	05/31/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/31/13	KCA	TO15	
Chloroform	2.97	*0.205*	14.5	*1.00*	05/31/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/31/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	1
Cyclohexane	2.39	*0.291*	8.22	*1.00*	05/31/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/31/13	KCA	TO15	
Dichlorodifluoromethane	2	*0.202*	9.88	*1.00*	05/31/13	KCA	TO15	
Ethanol	87.7	*0.531*	165	*1.00*	05/31/13	KCA	TO15	1
Ethyl acetate	0.43	*0.278*	1.55	*1.00*	05/31/13	KCA	TO15	1
Ethylbenzene	3.09	*0.230*	13.4	*1.00*	05/31/13	KCA	TO15	
Heptane	3.39	*0.244*	13.9	*1.00*	05/31/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/31/13	KCA	TO15	
Hexane	2.58	*0.284*	9.09	*1.00*	05/31/13	KCA	TO15	
Isopropylalcohol	6.58	*0.407*	16.2	*1.00*	05/31/13	KCA	TO15	
Isopropylbenzene	0.22	*0.204*	1.08	*1.00*	05/31/13	KCA	TO15	
m,p-Xylene	9.26	*0.230*	40.2	*1.00*	05/31/13	KCA	TO15	
Methyl Ethyl Ketone	17.3	*0.339*	51.0	*1.00*	05/31/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/31/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	05/31/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
o-Xylene	3.13	*0.230*	13.6	*1.00*	05/31/13	KCA	TO15	
Propylene	7.71	*0.581*	13.3	*1.00*	05/31/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	05/31/13	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/31/13	KCA	TO15	
Tetrachloroethene	0.47	*0.037*	3.18	*0.25*	05/31/13	KCA	TO15	
Tetrahydrofuran	0.97	*0.339*	2.86	*1.00*	05/31/13	KCA	TO15	1
Toluene	9.89	*0.266*	37.2	*1.00*	05/31/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/31/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/31/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/31/13	KCA	TO15	
Trichlorofluoromethane	1.82	*0.178*	10.2	*1.00*	05/31/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/31/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/31/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	97	*%*	97	*%*	05/31/13	KCA	TO15	

Project ID: 1035 FULTON ST., BROOKLYN

Phoenix I.D.: BD85022

Client ID: SG4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

June 06, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

June 06, 2013

QA/QC Data

SDG I.D.: GBD85019

QA/QC Batch 233332, QC Sample No: BD85019 (BD85019, BD85020, BD85021, BD85022)

Volatiles

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	121	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	104	4.52	4.32	0.92	0.88	4.4	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	123	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	119	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	113	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	104	1.38	1.38	0.28	0.28	0.0	70 - 130	20
1,3-Butadiene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	101	10.3	9.55	1.71	1.59	7.3	70 - 130	20
1,4-Dichlorobenzene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	106	1.18	1.13	0.24	0.23	4.3	70 - 130	20
4-Isopropyltoluene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	118	2.82	2.50	0.69	0.61	12.3	70 - 130	20
Acetone	ND	ND	104	129	130	54.2	54.9	1.3	70 - 130	20
Acrylonitrile	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	102	1.53	1.56	0.48	0.49	2.1	70 - 130	20
Benzyl chloride	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	126	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	129	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	92	4.79	3.98	1.54	1.28	18.4	70 - 130	20
Carbon Tetrachloride	ND	ND	116	0.251	ND	0.04	ND	NC	70 - 130	20
Chlorobenzene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	105	2.63	2.49	0.54	0.51	5.7	70 - 130	20
Chloromethane	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	133	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	100	2.75	3.34	0.8	0.97	19.2	70 - 130	20
Dibromochloromethane	ND	ND	133	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	108	5.04	5.09	1.02	1.03	1.0	70 - 130	20
Ethanol	ND	ND	100	117	122	62.2	64.8	4.1	70 - 130	20

QA/QC Data

SDG I.D.: GBD85019

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	ND	94	3.38	3.49	0.94	0.97	3.1	70 - 130	20
Ethylbenzene	ND	ND	107	6.64	7.07	1.53	1.63	6.3	70 - 130	20
Heptane	ND	ND	120	6.27	5.77	1.53	1.41	8.2	70 - 130	20
Hexachlorobutadiene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	96	3.28	3.45	0.93	0.98	5.2	70 - 130	20
Isopropylalcohol	ND	ND	83	8.06	8.35	3.28	3.4	3.6	70 - 130	20
Isopropylbenzene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	ND	108	21.2	21.9	4.89	5.04	3.0	70 - 130	20
Methyl Ethyl Ketone	ND	ND	90	22.8	22.1	7.72	7.51	2.8	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	86	1.39	ND	0.4	ND	NC	70 - 130	20
n-Butylbenzene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	ND	106	8.50	8.33	1.96	1.92	2.1	70 - 130	20
Propylene	ND	ND	104	5.44	5.69	3.16	3.31	4.6	70 - 130	20
sec-Butylbenzene	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	118	2.91	2.44	0.43	0.36	17.7	70 - 130	20
Tetrahydrofuran	ND	ND	103	2.86	3.04	0.97	1.03	6.0	70 - 130	20
Toluene	ND	ND	119	18.5	16.4	4.91	4.37	11.6	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	121	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	107	6.51	5.90	1.16	1.05	10.0	70 - 130	20
Trichlorotrifluoroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	75	75	103	107	97	107	97	9.8	70 - 130	20

I = This parameter is outside laboratory lcs/lcsd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 06, 2013

Thursday, June 06, 2013

Requested Criteria: None

State: NY

Sample Criteria Exceedences Report

GBD85019 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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P.O. #

Page 1 of 1

Data Delivery:
- ☐ Fax #:
- ☐ Email:
- ☐ Phone #:

Report to: EBC
Customer: EBC
Address:

Invoice to: EBC

Sampled by: KW

Project Name: 1035 Fulton St Bklyn NY
Criteria Requested: Deliverable: RCP ☐ MCP ☐
State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
		~~488~~	~~6L~~	~~-30~~		~~5658~~	~~41.6~~							✓			X
85019	593	475	↓	↓	-7	5658	↓	1135	1300	5-29	-28	-8		X			X
85020	591	466	6L	-30	-5	5649		1138	1312	5-29	-29	-6		X			X
85021	592	13614	6L	-30	-5	4990		1128	1315	5-29	-30	-9		X			X
85022	594	484	6L	-30	-3	4961		1130	1310	5-29	-30	-6		X			X
	6L 2hr																

Relinquished by:	Accepted by:	Date:	Time:
Thomas Ambro		5-24-13	945
		5-29-13	4:00
		5-29-13	1756

Data Format:
- Excel ☒
- Equis ☐
- GISKey ☐
- PDF ☒
- Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Quote Number:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date:

APPENDIX B

Remedial Action Plan

1035 FULTON STREET

BROOKYN, NEW YORK

Remedial Action Work Plan

NYC VCP Number: 14CVCP157K
E-Designation Site Number: 13EH-N380

Prepared for:

Fulton Hill Corner LLC
936 Fulton Street
Brooklyn, NY 11238

Prepared by:

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

1808 Middle Country Road
Ridge, NY 11961

JULY 2013

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Attachment A Proposed Development Plans
Attachment B Citizen Participation Plan
Attachment C Sustainability Statement
Attachment D Soil/Materials Management Plan
Attachment E Site-Specific Construction Health and Safety Plan (CHASP)
Attachment F Vapor Barrier Specifications

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
BOA	Brownfield Opportunity Area
CAMP	Community Air Monitoring Plan
COC	Certificate of Completion
CSOP	Contractors Site Operation Plan
ECs/ICs	Engineering and Institutional Controls
HASP	Health and Safety Plan
VCA	Voluntary Cleanup Agreement
NOC	Notice of Completion
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York State Department of Health and Mental Hygiene
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	NYSDEC Division of Environmental Remediation
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
OSHA	United States Occupational Health and Safety Administration
PE	Professional Engineer
PID	Photo Ionization Detector
QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan or Plan
RCA	Recycled Concrete Aggregate
RD	Remedial Design
RI	Remedial Investigation
RMZ	Residual Management Zone
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SVOC	Semi-Volatile Organic Compound
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

CERTIFICATION

I, Ariel Czemerinski, am a Professional Engineer licensed in the State of New York. I have primary direct responsibility for implementation of the remedial action for the Redevelopment Project located at 1035 Fulton Street, Brooklyn NY, Site number 14CVCP157K.

I certify that this Remedial Action Work Plan (RAWP) has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable City, State and Federal laws and regulations. Importation of all soil, fill and other material from off-Site will be in accordance with all applicable City, State and Federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

_____

Name

_____

NYS PE License Number

_____

Signature

_____

Date

PE Stamp

EXECUTIVE SUMMARY

Fulton Hill Corner LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 6,438-ft^2 Site located at 1035 Fulton Street in Brooklyn, New York. A remedial investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP). The remedial action described in this document provides for the protection of public health and the environment consistent with the intended property use, complies with applicable environmental standards, criteria and guidance and conforms with applicable laws and regulations.

Site Location and Current Usage

The Site is located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lots 12, 13, 15, and 16 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,438-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 28 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the lot with a 7-story mixed use building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

The 7-story mixed use building and cellar will occupy the entire Site. The cellar will be used for commercial space, recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor will be used for commercial and residential space, residential lobby, and bicycle storage. The second through seventh floors will all be residential units.

The top of the cellar floor will be approximately 10 feet below sidewalk level, requiring excavation of the entire footprint of the lot to approximately 11 feet below grade, with additional for the elevator pit to approximately 15ft below sidewalk level. Assuming an excavation depth of approximately 11 feet across the Site, a total of approximately 2,623 cubic yards (3,934 tons) of soil will be removed.

Summary of the Remedy

The proposed remedial action achieves protection of public health and the environment for the intended use of the property. The proposed remedial action achieves all of the remedial action objectives established for the project and addresses applicable standards, criterion, and guidance; is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants; is cost effective and implementable; and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required NYC VCP citizen participation activities according to an approved Citizen Participation Plan;
2. Performance a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establishment of Unrestricted Use Track 1 Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Excavation and removal of soil/fill exceeding Track 1 SCOs. The entire footprint of the property will be excavated to a depth of approximately 11 feet for new development;
6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-Site;
7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations.
8. Transportation and off-Site disposal of all soil/fill material at permitted facilities in

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accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities.

9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs.
10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
11. As part of development, installation of a vapor barrier system beneath the basement concrete slab and behind the foundation walls of the proposed building. The vapor barrier will consist of Raven Industries' VaporBlock 20 Plus, which is a seven layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins.
12. As part of development, construction and maintenance of an engineered composite cover consisting of a 6 inch thick concrete basement slab;
13. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations.
14. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
15. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, and if Track 1 SCOs are not achieved, describes all Engineering and Institutional Controls to be implemented at the Site, and lists any changes from this RAWP.
16. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency.
17. If Track 1 is not achieved, the property will continue to be registered with an E-Designation at the NYC Department of Buildings. Establishment of Engineering Controls and Institutional Controls in the RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of

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groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

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COMMUNITY PROTECTION STATEMENT

The Office of Environmental Remediation created the New York City Voluntary Cleanup Program (NYC VCP) to provide governmental oversight for the cleanup of contaminated property in NYC. This Remedial Action Work Plan ("cleanup plan") describes the findings of prior environmental studies that show the location of contamination at the Site, and describes the plans to clean up the Site to protect public health and the environment.

This cleanup plan provides a very high level of protection for neighboring communities and also includes many other elements that address common community concerns, such as community air monitoring, odor, dust and noise controls, hours of operation, good housekeeping and cleanliness, truck management and routing, and opportunities for community participation. The purpose of this Community Protection Statement is to explain these community protection measures in non-technical language to simplify community review.

Remedial Investigation and Cleanup Plan. Under the NYC VCP, a thorough cleanup study of this property (called a remedial investigation) has been performed to identify past property usage, to sample and test soils, groundwater and soil vapor, and identify contaminant sources present on the property. The cleanup plan has been designed to address all contaminant sources that have been identified during the study of this property.

Identification of Sensitive Land Uses. Prior to selecting a cleanup, the neighborhood was evaluated to identify sensitive land uses nearby, such as schools, day care facilities, hospitals and residential areas. The cleanup program was then tailored to address the special conditions of this community.

Qualitative Human Health Exposure Assessment. An important part of the cleanup planning for the Site is the performance of a study to find all of the ways that people might come in contact with contaminants at the Site now or in the future. This study is called a Qualitative Human Health Exposure Assessment (QHHEA). A QHHEA was performed for this project. This assessment has considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination. All identified public exposures will be addressed under this cleanup plan.

Health and Safety Plan. This cleanup plan includes a Construction Health and Safety Plan (CHASP) that is designed to protect community residents and on-Site workers. The elements of this plan are in compliance with safety requirements of the United States Occupational Safety and Health Administration (OSHA). This plan includes many protective elements including those discussed below.

Site Safety Coordinator. This project has a designated Site Safety Coordinator to implement the Health and Safety Plan. The Site Safety Coordinator maintains an emergency contact sheet and protocol for management of emergencies. The Site Safety Coordinator is Mr. Kevin Waters of Environmental Business Consultants. Mr. Waters can be reached at (631) 504-6000.

Worker Training. Workers participating in cleanup of contaminated material on this project are required to be trained in a 40-hour hazardous waste operators training course and to take annual refresher training. This pertains only to workers performing specific tasks including removing hazardous material and installing cleanup systems in contaminated areas.

Community Air Monitoring Plan. Community air monitoring will be performed during this cleanup project to ensure that the community is properly protected from contaminants, dust and odors. Air samples will be tested in accordance with a detailed plan called the Community Air Monitoring Plan (CAMP). Results will be regularly reported to the NYC OER. This cleanup plan also has a plan to address any unforeseen problems that might occur during the cleanup (called a 'Contingency Plan').

Odor, Dust and Noise Control. This cleanup plan includes actions for odor and dust control. These actions are designed to prevent off-Site odor and dust nuisances and includes steps to be taken if nuisances are detected. Generally, dust is managed by application of physical covers and by water sprays. Odors are controlled by limiting the area of open excavations, physical covers, spray foams and by a series of other actions (called operational measures). The project is also required to comply with NYC noise control standards. If you observe problems in these areas, please contact the on-Site Project Manager, Kristen DiScenza at (631) 504-6000 or NYC Office of Environmental Remediation Project Manager, Rebecca Bub (212) 341-2073.

Quality Assurance. This cleanup plan requires that evidence be provided to illustrate that all

cleanup work required under the plan has been completed properly. This evidence will be summarized in the final report, called the Remedial Action Report. This report will be submitted to the NYC Office of Environmental Remediation and will be thoroughly reviewed.

Storm-Water Management. To limit the potential for soil erosion and discharge, this cleanup plan has provisions for storm-water management. The main elements of the storm water management include physical barriers such as tarp covers and erosion fencing, and a program for frequent inspection.

Hours of Operation. The hours for operation of cleanup will comply with the NYC Department of Buildings construction code requirements or according to specific variances issued by that agency. For this cleanup project, the hours of operation are 7:00AM to 6:00PM Monday through Friday.

Signage. While the cleanup is in progress, a placard will be prominently posted at the main entrance of the property with a laminated project Fact Sheet that states that the project is in the NYC Voluntary Cleanup Program, provides project contact names and numbers, and locations of project documents can be viewed.

Complaint Management. The contractor performing this cleanup is required to address all complaints. If you have any complaints, you can call the facility Project Manager, Ms. Kristen DiCenza (EBC) at (631) 504-6000, the NYC Office of Environmental Remediation Project Manager, Rebecca Bub at (212) 341-2073, or call 311 and mention the Site is in the NYC Voluntary Cleanup Program.

Utility Mark-outs. To promote safety during excavation in this cleanup, the contractor is required to first identify all utilities and must perform all excavation and construction work in compliance with NYC Department of Buildings regulations.

Soil and Liquid Disposal. All soil and liquid material removed from the Site as part of the cleanup will be transported and disposed of in accordance with all applicable City, State and Federal regulations and required permits will be obtained.

Soil Chemical Testing and Screening. All excavations will be supervised by a trained and properly qualified environmental professional. In addition to extensive sampling and chemical testing of soils on the Site, excavated soil will be screened continuously using hand-held instruments, by sight, and by smell to ensure proper material handling and management, and community protection.

Stockpile Management. Soil stockpiles will be kept covered with tarps to prevent dust, odors and erosion. Stockpiles will be frequently inspected. Damaged tarp covers will be promptly replaced. Stockpiles will be protected with silt fences. Hay bales will be used, as needed to protect storm water catch basins and other discharge points.

Trucks and Covers. Loaded trucks leaving the Site will be covered in compliance with applicable laws and regulations to prevent dust and odor. Trucks will be properly recorded in logs and records and placarded in compliance with applicable City, State and Federal laws, including those of the New York State Department of Transportation. If loads contain wet material that can leak, truck liners will be used. All transport of materials will be performed by licensed truckers and in compliance with all laws and regulations.

Imported Material. All fill materials proposed to be brought onto the Site will comply with rules outlined in this cleanup plan and will be inspected and approved by a qualified worker located on-Site. Waste materials will not be brought onto the Site. Trucks entering the Site with imported clean materials will be covered in compliance with applicable laws and regulations.

Equipment Decontamination. All equipment used for cleanup work will be inspected and washed, if needed, before it leaves the Site. Trucks will be cleaned at a truck inspection station on the property before leaving the Site.

Housekeeping. Locations where trucks enter or leave the Site will be inspected every day and cleaned regularly to ensure that they are free of dirt and other materials from the Site.

Truck Routing. Truck routes have been selected to: (a) limit transport through residential areas and past sensitive nearby properties; (b) maximize use of city-mapped truck routes; (c) limit total

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distance to major highways; (d) promote safety in entry to highways; (e) promote overall safety in trucking; and (f) minimize off-Site line-ups (queuing) of trucks entering the property. Operators of loaded trucks leaving the Site will be instructed not to stop or idle in the local neighborhood.

Final Report. The results of all cleanup work will be fully documented in a final report (called a Remedial Action Report) that will be available for you to review in the public document repositories located at the Bedford Library (496 Franklin Avenue, Brooklyn, NY).

Long-Term Site Management. To provide long-term protection after the cleanup is complete, the property owner will be required to comply with an ongoing Site Management Plan that calls for continued inspection of protective controls, such as Site covers. The Site Management Plan is evaluated and approved by the NYC OER. Requirements that the property owner must comply with are established through a cit environmental designation. A certification of continued protectiveness of the cleanup will be required from time to time to show that the approved cleanup is still effective.

REMEDIAL ACTION WORK PLAN

1.0 SITE BACKGROUND

Fulton Hill Corner LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 1035 Fulton Street in the Befford-Stuyvesant section of Brooklyn, New York (the Site). A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP) in a manner that will render the Site protective of public health and the environment consistent with the contemplated end use. This RAWP establishes remedial action objectives, provides remedial alternatives analysis that includes consideration of a permanent cleanup, and provides a description of the selected remedial action. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 Site Location and Current Usage

The Site is located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lots 12, 13, 15, and 16 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,438-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 28 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the lot with a 7-story mixed use building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

The 7-story mixed use building and cellar will occupy the entire Site. The cellar will be used for commercial space, recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor will be used for commercial and residential space, residential lobby, and bicycle storage. The second through seventh floors will all be residential units.

The top of the cellar floor will be approximately 10 feet below sidewalk level, requiring excavation of the entire footprint of the lot to approximately 11 feet below grade, with additional for the elevator pit to approximately 15ft below sidewalk level. Assuming an excavation depth of approximately 11 feet across the Site, a total of approximately 2,623 cubic yards (3,934 tons) of soil will be removed.

The remedial action contemplated under this RAWP may be implemented independently of the proposed redevelopment plan.

1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and commercial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	Block 1992, Lot 17 (99 Downing Street) – Developed with a multi-story residential building.
South – Opposite side of Fulton Street	Block 2015, Lots 21, 22, and 23 (1004 through 1008 Fulton Street) – Lots 21 and 22 are developed with multi-story mixed use residential/commercial buildings. Lot 23 is a 19.5 ft by 102 ft parking lot.
East – Adjacent property	Block 1992, Lot 11 (1039 Fulton Street) – Developed with a multi-story residential building.
West – Opposite side of Downing Street	Block 1991, Lot 1 (1029 Fulton Street) – A 2,190 square foot undeveloped uncapped lot.

1.4 Remedial Investigation

A remedial investigation was performed and the results are documented in a companion document called "*Remedial Investigation Report, 1035 Fulton Street, Brooklyn, NY*", dated June 2013 (RIR).

Summary of Past Uses of Site and Areas of Concern

EBC was able to establish a site history for the property dating back to 1887. From approximately 1887 to 1973, the south portion of the Site was developed with a three story store and the northwest portion of the Site was occupied by a two story store/residential dwelling. Commercial tenants including a furniture dealer, a restaurant and a grocery store occupied the Site in the period between 1928 to 1960. From approximately 1973 (when a demolition permit was issued for the Site) to the present day the Site has been vacant land.

The AOCs identified for this Site include:

- Historic fill layer is present at the Site from grade to depths as great as 5 feet below grade

Summary of the Work Performed under the Remedial Investigation

Fulton Hill Corner LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Groundwater samples were not obtained during this investigation. Several attempts were made to collect groundwater samples across the site, drilling activities were terminated at depths ranging from 60 to 65 feet below grade. The groundwater table was not encountered; and
4. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

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Summary of Environmental Findings

1. Elevation of the property is approximately 75 feet.

2. Depth to bedrock is at the Site is greater than 100 feet.

3. The stratigraphy of the Site, from the surface down, consists of 5 feet of historic fill underlain by native brown silty sand.

4. Soil/fill samples collected during the RI showed that VOCs were not detected except for low levels of naphthalene (46 ppb) in one of thirteen soil samples. Napthathalene concentrations were well below the Unrestricted Use SCOs. Seven SVOCs including benz(a)anthracene (max. of 6,900 µg/Kg), benzo(a)pyrene (max. of 5,900 µg/Kg), benzo(b)fluoranthene (max. of 7,500 µg/Kg), benzo(k)fluoranthene (max. of 2,800 µg/Kg), chrysene (max. of 7,300 µg/Kg), dibenz(a,h)anthracene (840 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,600 µg/Kg) were detected above their respective Restricted Residential Use SCOs within three of the six shallow samples. The SVOCs detected above Track 2 Restricted Residential Use SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Five pesticides, 4,4'-DDD (8.4 µg/Kg), 4,4'-DDE (max. of 14 µg/Kg), 4,4'-DDT (max. of 230 µg/Kg), aldrin (6.4 µg/Kg) and chlordane (max. of 170 µg/Kg) were detected above Unrestricted Use SCOs in four of the six shallow samples collected. All pesticide concentrations were well below Track 2 Restricted Residential SCOs. PCBs were not detected in any soil sample. Four metals, including chromium (max. of 35 µg/Kg), lead (max. of 513 µg/Kg), mercury (max. of 1.61 µg/Kg) and zinc (max. of 374 µg/Kg) exceeded Track 1 Unrestricted Use SCOs in all six shallow soil samples. Of these metals, lead and mercury also exceeded Track 2 Restricted Residential SCOs in three of the six samples. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Track 1 Unrestricted Use SCOs within any of the six deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

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5. Soil vapor samples collected during the RI showed chlorinated and petroleum VOCs at low concentrations. Tetrachloroethylene (PCE) was detected in all four soil vapor samples at a maximum concentration of 3.18 $\mu g/m^3$ and carbon tetrachloride was detected in all four samples at a maximum concentration of 0.314 $\mu g/m^3$. Trichloroethene (TCE) and 1,1,1-TCA were not detected in any of the four samples. The PCE and carbon tetrachloride concentrations are well below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from 39 $\mu g/m^3$ to 94 $\mu g/m^3$. Overall, the highest reported concentrations were for acetone (234 $\mu g/m^3$) and ethanol (175 $\mu g/m^3$).

For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR and this RAWP, disposal of significant amounts of hazardous waste is not suspected at this site.

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2.0 REMEDIAL ACTION OBJECTIVES

Based on the results of the RI, the following Remedial Action Objectives (RAOs) have been identified for this Site:

Soil

- Prevent direct contact with contaminated soil.
- Prevent exposure to contaminants volatilizing from contaminated soil.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

- Prevent exposure to contaminants in soil vapor.
- Prevent migration of soil vapor into dwelling and other occupied structures.

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3.0 REMEDIAL ALTERNATIVES ANALYSIS

The goal of the remedy selection process under is to select a remedy that is protective of human health and the environment taking into consideration the current, intended and reasonably anticipated future use of the property. The remedy selection process begins by establishing RAOs for media in which chemical constituents were found in exceedence of applicable standards, criteria and guidance values (SCGs). A remedy is then developed based on the following ten criteria:

- Protection of human health and the environment;
- Compliance with SCGs;
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contaminated material;
- Implementability;
- Cost effectiveness;
- Community Acceptance;
- Land use; and
- Sustainability.

The following is a detailed description of the alternatives analysis and remedy selection to address impacted media at the Site. As required, a minimum of two remedial alternatives (including a Track 1 scenario) are evaluated, as follows:

- Alternative 1 involves
    - Establishment of Unrestricted Use Track 1 Unrestricted Use SCOs.
    - Removal of all soil/ fill exceeding Track 1 Unrestricted Use SCOs throughout the Site and confirmation that Track 1 Unrestricted Use SCOs has been achieved with post-excavation endpoint sampling. Based on the results of the remedial investigation, it is expected that this alternative would require excavation to a depth of at least 5 feet across the majority of the Site to remove all historic fill. Excavation for construction of the cellar would take place to a depth of approximately 11 feet to construct the new building's cellar level. However, if

soil/fill containing analytes at concentrations above Track 1 Unrestricted Use SCOs is still present at the base of the excavation after removal of all soil required for construction of the new building's cellar level is complete, additional excavation will be performed to ensure complete removal of soil that does not meet Track 1 Unrestricted Use SCOs.

- No Engineering or Institutional Controls are required for a Track 1 cleanup, but a vapor barrier would be installed beneath the basement foundation and behind foundation sidewalls of the new building as a part of new construction to prevent any potential future exposures from off-Site soil vapor; and
- Placement of a final cover over the entire Site as part of new development.

- Alternative 2 involves
  - Removal of all soil/fill exceeding Track 4 Site-Specific SCOs and confirmation that Track 4 has been achieved with post-excavation endpoint sampling. Excavation for construction of the cellar would take place to a depth of approximately 11 feet for the entire Site, which would effectively remove all historic fill at the Site. However, if soil/ fill containing SVOCs or metals at concentrations above Track 4 Site-Specific SCOs is still present at the base of the excavation after removal of all soil required for construction of the new building is complete, additional excavation will be performed to meet Track 4 Site-Specific SCOs.
  - Placement of a final cover over the entire Site to prevent exposure to remaining soil/fill;
  - Placement of a soil vapor barrier beneath the building slab and along foundation side walls to prevent any potential future exposures from off-Site soil vapor;
  - Establishment of use restrictions including prohibitions on the use of groundwater from the Site; prohibitions of sensitive Site uses, such as farming or vegetable gardening, to prevent future exposure pathways; and prohibition of a higher level of land use without OER approval;
  - Establishment of an approved Site Management Plan to ensure long-term management of these Engineering and Institutional Controls including the

performance of periodic inspections and certification that the controls are performing as they were intended; and

- Continued registration as an E-designated property to memorialize the remedial action and the Engineering and Institutional Controls required by this RAWP.

3.1 Threshold Criteria

Protection of Public Health and the Environment

This criterion is an evaluation of the remedy's ability to protect public health and the environment, and an assessment of how risks posed through each existing or potential pathway of exposure are eliminated, reduced or controlled through removal, treatment, and implementation of Engineering Controls or Institutional Controls. Protection of public health and the environment must be achieved for all approved remedial actions.

Alternative 1 would be protective of human health and the environment by removing contaminated soil/fill exceeding Track 1 SCOs and groundwater protection standards, thus eliminating potential for direct contact with contaminated soil/fill once construction is complete and eliminating the risk of contamination leaching into groundwater.

Alternative 2 would achieve comparable protections of human health and the environment by excavating the historic fill at the Site and by ensuring that remaining soil/fill on-Site meets Track 4 Site-Specific SCOs, as well as by placement of Institutional and Engineering controls, including a composite cover system. The composite cover system would prevent direct contact with any remaining on-Site soil/fill. Implementing Institutional Controls including a Site Management Plan and continued registration as an E-designated property would ensure that the composite cover system remains intact and protective. Establishment of Track 4 Site-Specific SCOs would minimize the risk of contamination leaching into groundwater.

For both Alternatives, potential exposure to contaminated soils during construction would be minimized by implementing a Construction Health and Safety Plan, an approved Soil/Materials Management Plan and Community Air Monitoring Plan (CAMP). Potential contact with contaminated groundwater is not likely since it is not anticipated to be encountered during construction and its use is prohibited by city laws and regulations. Potential future migration of off-Site soil vapors into the new building would be prevented by installing a vapor barrier below

the new building's basement slab and continuing the vapor barrier around foundation walls as part of new construction.

3.2. Balancing Criteria

Compliance with Standards, Criteria and Guidance (SCGs)

Alternative 1 would achieve compliance with the remedial goals, SCGs and RAOs for soil through removal of soil to achieve Track 1 Unrestricted Use SCOs and groundwater protection standards. Compliance with SCGs for soil vapor would also be achieved by installing a vapor barrier below the new building's basement slab and continuing the vapor barrier around foundation walls, as part of development.

Alternative 2 would achieve compliance with the remedial goals, SCGs and RAOs for soil through removal of soil to meet Track 4 Site-Specific SCOs. Compliance with SCGs for soil vapor would also be achieved by installing a vapor barrier below the new building's basement slab and continuing the vapor barrier around foundation walls. A Site Management Plan would ensure that these controls remained protective for the long term.

For both Alternatives, focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs.

Short-term effectiveness and impacts

This evaluation criterion assesses the effects of the alternative during the construction and implementation phase until remedial action objectives are met. Under this criterion, alternatives are evaluated with respect to their effects on public health and the environment during implementation of the remedial action, including protection of the community, environmental impacts, time until remedial response objectives are achieved, and protection of workers during remedial actions.

Both Alternatives 1 and 2 have similar short-term effectiveness during their respective implementations, as each requires excavation of historic fill material. Both alternatives would result in short-term dust generation impacts associated with excavation, handling, load out of

materials, and truck traffic. Short term impacts could potentially be higher for Alternative 1 if excavation of greater amounts of historical fill material is encountered below the excavation depth of the proposed building.

Both alternatives would both employ appropriate measures to prevent short term impacts, including a Construction Health and Safety Plan, a Community Air Monitoring Plan (CAMP) and a Soil/Materials Management Plan (SMMP), during all on-Site soil disturbance activities and would minimize the release of contaminants into the environment. Both alternatives provide short term effectiveness in protecting the surrounding community by decreasing the risk of contact with on-Site contaminants. Construction workers operating under appropriate management procedures and a Construction Health and Safety Plan (CHASP) will be protected from on-Site contaminants (personal protective equipment would be worn consistent with the documented and encountered risks within the respective work zones).

An additional short-term adverse impact and risk to the community associated with both remedial alternatives is increased truck traffic. Approximately 86, 25-ton capacity truck trips would be necessary to transport fill and soil excavated during Site development. Truck traffic will be routed on the most direct course using major thoroughfares where possible and flaggers will be used to protect pedestrians at Site entrances and exits.

An additional short-term adverse impact and risk to the community associated with both remedial alternatives is increased truck traffic. Approximately 160, 25-ton capacity truck trips would be necessary to transport fill and soil excavated during Site development. Truck traffic will be routed on the most direct course using major thoroughfares where possible and flaggers will be used to protect pedestrians at Site entrances and exits.

Long-term effectiveness and permanence

This evaluation criterion addresses the results of a remedial action in terms of its permanence and quantity/nature of waste or residual contamination remaining at the Site after response objectives have been met, such as permanence of the remedial alternative, magnitude of remaining contamination, adequacy of controls including the adequacy and suitability of ECs/ICs that may be used to manage contaminant residuals that remain at the Site and assessment of containment systems and ICs that are designed to eliminate exposures to contaminants, and long-

term reliability of Engineering Controls.

Alternative 1 would achieve long-term effectiveness and permanence related to on-Site contamination by permanently removing all impacted soil/fill and enabling unrestricted usage of the property.

Alternative 2 would provide long-term effectiveness by removing most on-Site contamination and attaining Track 4 Site-Specific SCOs; establishing Engineering Controls including a composite cover system across the Site; establishing Institutional Controls to ensure long-term management including use restrictions, a Site Management Plan and maintaining continued registration as an E-designated property to memorialize these controls for the long term. The SMP would ensure long-term effectiveness of all ECs and ICs by requiring periodic inspection and certification that these controls and restrictions continue to be in place and are functioning as they were intended assuring that protections designed into the remedy will provide continued high level of protection in perpetuity.

Reduction of toxicity, mobility, or volume of contaminated material

This evaluation criterion assesses the remedial alternative's use of remedial technologies that permanently and significantly reduce toxicity, mobility, or volume of contaminants as their principal element. The following is the hierarchy of source removal and control measures that are to be used to remediate a Site, ranked from most preferable to least preferable: removal and/or treatment, containment, elimination of exposure and treatment of source at the point of exposure. It is preferred to use treatment or removal to eliminate contaminants at a Site, reduce the total mass of toxic contaminants, cause irreversible reduction in contaminants mobility, or reduce of total volume of contaminated media.

Alternative 1 would permanently eliminate the toxicity, mobility, and volume of contaminants from on-Site soil by removing all soil in excess of Track 1 - Unrestricted Use SCOs.

Alternative 2 would remove most of the historic fill at the Site thus would permanently eliminate the toxicity, mobility, and volume of contaminants, and any remaining on-Site soil beneath the new building would meet Track 4 - Site-Specific SCOs. Alternative 1 would eliminate a greater total mass of contaminants on-site. However, the removal of soil to 11 feet for the new

development in both scenarios would probably result in relatively minor differences between these two alternatives.

Implementability

This evaluation criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation, including technical feasibility of construction and operation, reliability of the selected technology, ease of undertaking remedial action, monitoring considerations, administrative feasibility (e.g. obtaining permits for remedial activities), and availability of services and materials.

The techniques, materials and equipment to implement Alternatives 1 and 2 are readily available and have been proven effective in remediating the contaminants associated with the Site. Both alternatives utilize standard methods that are commonly available and routinely applied by the industry. They use standard materials and services that are well established technology. The reliability of each remedy is also high. There are no special difficulties associated with any of the activities proposed.

Cost effectiveness

This evaluation criterion addresses the cost of alternatives, including capital costs (such as construction costs, equipment costs, and disposal costs, engineering expenses) and site management costs (costs incurred after remedial construction is complete) necessary to ensure the continued effectiveness of a remedial action.

Since historic fill at the Site was only found during the RI to extend to a depth of 5 feet, and the new building requires excavation of the entire Site to a depth of 11ft, the costs associated with both Alternative 1 and Alternative 2 will likely be the comparable. If additional soil/fill with analytes above Track 1 Unrestricted Use SCOs remains after excavation for the new building, long-term costs for Alternative 2 would likely be higher than Alternative 1 based on implementation of a Site Management Plan as part of Alternative 2.

Community Acceptance

This evaluation criterion addresses community opinion and support for the remedial action.

Observations here will be supplemented by public comment received on the RAWP. Based on the overall goals of the remedial program and initial permitting associated with the proposed site development, no adverse community opinion is anticipated for either alternative. Both remedial actions provide for protection of public health and the environment and minimize potential contaminant exposures. This RAWP will be subject to a public review under the NYC VCP and will provide the opportunity for detailed public input on the remedial alternatives and the selected remedy. This public comment will be considered by OER prior to approval of this plan. The Citizen Participation Plan for the project is provided in Attachment B.

Land use

This evaluation criterion addresses the proposed use of the property. This evaluation has considered reasonably anticipated future uses of the Site and takes into account: current use and historical and/or recent development patterns; applicable zoning laws and maps; NYS Department of State's Brownfield Opportunity Areas (BOA) pursuant to section 970-r of the general municipal law; applicable land use plans; proximity to real property currently used for residential use, and to commercial, industrial, agricultural, and/or recreational areas; environmental justice impacts, Federal or State land use designations; population growth patterns and projections; accessibility to existing infrastructure; proximity of the site to important cultural resources and natural resources, potential vulnerability of groundwater to contamination that might emanate from the site, proximity to flood plains, geography and geology; and current Institutional Controls applicable to the site.

The proposed redevelopment of the Site is compatible with its current zoning and is consistent with recent development patterns. Following remediation, the Site will meet either Track 1 Unrestricted Use or Track 4 Site-Specific SCOs, which is appropriate for its planned residential use. Improvements in the current environmental condition of the property achieved by both alternatives are also consistent with the City's goals for cleanup of contaminated land and bringing such properties into productive reuse. Both alternatives are equally protective of natural resources and cultural resources.

Sustainability of the Remedial Action

This criterion evaluates the overall sustainability of the remedial action alternatives and the

degree to which sustainable means are employed to implement the remedial action including those that take into consideration NYC's sustainability goals defined in *PlaNYC: A Greener, Greater New York*. Sustainability goals may include: maximizing the recycling and reuse of non-virgin materials; reducing the consumption of virgin and non-renewable resources; minimizing energy consumption and greenhouse gas emissions; improving energy efficiency; and promotion of the use of native vegetation and enhancing biodiversity during landscaping associated with Site development.

The remedial plan would take into consideration the shortest trucking routes during off-Site disposal of historic fill and other soils, which would reduce greenhouse gas emissions and conserve energy used to fuel trucks. New York City Clean Soil Bank program may be utilized for resuse of native soils. To the extent practicable, energy efficient building materials, appliances, and equipment will be utilized to complete the development. Both remedial alternatives are comparable with respect to the opportunity to achieve sustainable remedial action. A complete list of green remedial activities considered as part of the NYC VCP is included in the Sustainability Statement, included as Appendix C.

4.0 REMEDIAL ACTION

4.1 Summary of Preferred Remedial Action

The preferred remedial action alternative is the Track 1 Alternative. The preferred remedial action alternative achieves protection of public health and the environment for the intended use of the property. The preferred remedial action alternative will achieve all of the remedial action objectives established for the project and addresses applicable SCGs. The preferred remedial action alternative is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants. The preferred remedial action alternative is cost effective and implementable and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required NYC VCP citizen participation activities according to an approved Citizen Participation Plan;
2. Performance a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establishment of Unrestricted Use Track 1 Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Excavation and removal of soil/fill exceeding Track 1 SCOs. The entire footprint of the property will be excavated to a depth of approximately 11 feet for new development;
6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-Site;
7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations.
8. Transportation and off-Site disposal of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities.

9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs.
10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
11. As part of development, installation of a vapor barrier system beneath the basement concrete slab and behind the foundation walls of the proposed building. The vapor barrier will consist of Raven Industries' VaporBlock 20 Plus, which is a seven layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins.
12. As part of development, construction and maintenance of an engineered composite cover consisting of a 6 inch thick concrete basement slab;
13. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations.
14. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
15. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, and if Track 1 SCOs are not achieved, describes all Engineering and Institutional Controls to be implemented at the Site, and lists any changes from this RAWP.
16. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency.
17. If Track 1 is not achieved, the property will continue to be registered with an E-Designation at the NYC Department of Buildings. Establishment of Engineering Controls and Institutional Controls in the RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

4.2 Soil Cleanup Objectives and Soil/Fill Management

Track 1 Soil Cleanup Objectives (SCOs) are proposed for this project. The SCOs for this Site are listed in Table 1. If Track 1 is not achieved, the following Track 4 Site-Specific SCOs will be used:

Contaminant	Track 4 SCOs
Total SVOCs	250 ppm
Lead	800 ppm
Mercury	2.0 ppm
Zinc	500 ppm

Soil and materials management on-Site and off-Site, including excavation, handling and disposal, will be conducted in accordance with the Soil/Materials Management Plan in Attachment D. The location of planned excavations is shown in Figure 5.

Discrete contaminant sources (such as hotspots) identified during the remedial action will be identified by GPS or surveyed. This information will be provided in the Remedial Action Report.

Estimated Soil/Fill Removal Quantities

The total quantity of soil/fill expected to be excavated and disposed off-Site is 3,934 tons.
Disposal location(s) will be reported promptly to the OER Project Manager prior to the start of the remedial action.

End-Point Sampling

Removal actions under this plan will be performed in conjunction with remedial end-point sampling. Post-excavation end-point sampling and testing will be performed promptly following materials removal and completed prior to Site development activities. To evaluate attainment of Track 1 - Unrestricted Use SCOs, five end-point soil samples will be collected and analyzed for SVOCs and TAL Metals. For comparison to Track 4 Site Specific SCOs, analytes will only include trigger compounds and elements established on the Track 4 Site-Specific SCO list. The approximate collection location of the endpoint soil samples is shown on Figure 6.

Hotspot removal actions, whether established under this RAWP or identified during the remedial program, will be performed in conjunction with remedial end-point sampling to ensure that hotspots are fully removed. Analytes for endpoint sampling will be those parameters that are driving the hotspot removal action and will be approved by OER. End point sampling frequency will consist of the following:

1. For excavations less than 20 feet in total perimeter, at least one bottom sample and one sidewall sample biased in the direction of surface runoff.
2. For excavations 20 to 300 feet in perimeter:
   - For surface removals, one sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
   - For subsurface removals, one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
3. For sampling of volatile organics, bottom samples should be taken within 24 hours of excavation, and should be taken from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours should be taken at six to twelve inches.
4. For contaminated soil removal, post remediation soil samples for laboratory analysis should be taken immediately after contaminated soil removal. If the excavation is enlarged horizontally, additional soil samples will be taken pursuant to bullets 1-3 above.

Post-remediation sample locations and depth will be biased towards the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated. In all cases, post-remediation samples should be biased toward locations and depths of the highest expected contamination.

New York State ELAP certified labs will be used for all end-point sample analyses. Labs for end-point sample analyses will be reported in the RAR. The RAR will provide a tabular and map

summary of all end-point sample results and will include all data including non-detects and applicable standards and/or guidance values. End-point samples will be analyzed for trigger analytes (those for which SCO exceedence is identified) utilizing the following methodology:

Soil analytical methods will include:

- Semi-volatile organic compounds by EPA Method 8270; and
- Target Analyte List metals

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and required regulatory reporting (i.e. spills hotline) will be performed.

Quality Assurance/Quality Control

The fundamental QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision and completeness requirements will be addressed by the laboratory for all data generated.

Field QA/QC will include the following procedures:

- Calibration of field equipment, including PID, on a daily basis;
- Analysis of one (1) duplicate sample;
- Use of dedicated and/or disposable field sampling equipment;
- Proper sample handling and preservation;
- Proper sample chain of custody documentation; and
- Completion of report logs.

The above procedures will be executed as follows:

- One (1) duplicate end-point soil sample will be collected to evaluate field sampling precision or reproducibility of measurements of the same parameter under the given set of conditions;
- Disposable sampling equipment will be used to minimize cross-contamination between samples. Decontamination of any non-dedicated sampling equipment will

consist of wiping equipment clean, washing with Alconox solution, rinsing with deionized water and air drying prior to each use in order to ensure that cross-contamination between sampling locations does not occur. Decontamination procedures will be performed in an area segregated from any sampling areas. If non-disposable sampling equipment is used, field blanks will be prepared at the rate of 1 for every eight samples collected.

- For each of the parameters analyzed, a sufficient sample volume will be collected to adhere to the specific analytical protocol, and provide sufficient sample for reanalysis if necessary;
- Each sample will be collected in pre-cleaned, laboratory supplied glassware, appropriately labeled. Appropriate sample preservation techniques, including cold temperature storage at 4º C, will be utilized to ensure that the analytical parameters concentrations do not change between the time of sample collection and analysis; and
- Samples will be analyzed prior to the expiration of the respective holding time for each analytical parameter to ensure the integrity of the analytical results.

Import and Reuse of Soils

Import of soils onto the property and reuse of soils already on-Site will be performed in conformance with the Soil/Materials Management Plan in Attachment D. The estimated quantity of soil to be imported into the Site for backfill and cover soil is 0 tons. The estimated quantity of onsite soil/fill expected to be reused/relocated on Site is 0 tons.

4.3 Engineering Controls

Based on the excavation required for the proposed Site development, the Site is expected to achieve Track 1 Unrestricted use SCOs. If Track 1 Unrestricted Use SCOs are achieved, no Engineering or Institutional Controls will be required to be employed in the Remedial Action to address residual contamination remaining at the Site. However, the following elements will be incorporated into the foundation design as part of the development: composite cover system and soil vapor barrier. If Track 1 is not achieved, these two elements will constitute Engineering Controls that will be employed in the Remedial Action to address residual contamination remaining at the Site.

Composite Cover System

As part of the new development, the entire property will be covered by an engineered, composite cover system to be built on the Site. This cover system will be comprised of a 6 inch thick concrete building slab beneath the area of the proposed building.

If Track 1 SCOs are not achieved at the Site, the composite cover system would serve as a permanent engineering control. Under Alternative 2, the system would be inspected and reported at specified intervals as required by this RAWP and the SMP. A Soil Management Plan would be included in the Site Management Plan and would outline the procedures to be followed in the event that the composite cover system and underlying residual soil/fill is disturbed after the remedial action is complete. Maintenance of this composite cover system would be described in the Site Management Plan in the RAR.

Vapor Barrier

As part of the development, mitigation of potential soil vapor from offsite will be achieved with a combination of building slab and vapor barrier. The vapor barrier will consist of Raven Industries' VaporBlock 20 Plus, which is a seven layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins. The vapor barrier will be installed prior to pouring the building's concrete slab. The vapor barrier will extend throughout the area occupied by the footprint of the new building and up the foundation sidewalls in accordance with manufacturer specifications. The specifications for installation will be provided to the construction management company and the foundation contractor or installer of the liner. The specifications state that all vapor barrier seams, penetrations, and repairs will be sealed either by the tape method or weld method, according to the manufacturer's recommendations and instructions.

The project's Professional Engineer licensed by the State of New York will have primary direct responsibility for overseeing the implementation of the vapor barrier. The extent of the proposed vapor barrier membrane is provided in Figure 8. Product specification sheets are provided in Attachment E.

The Remedial Action Report will include photographs (maximum of two photos per page) of the installation process, PE/RA certified letter (on company letterhead) from primary contractor

responsible for installation oversight and field inspections, and a copy of the manufacturers certificate of warranty.

4.4 Institutional Controls

Institutional Controls are not required on sites that achieve Track 1 Remedial Action. If Track 1 SCOs are not achieved, Institutional Controls (IC) will be utilized in this remedial action to manage residual soil/fill and other media and render the Site protective of public health and the environment. Institutional Controls are listed below. Long-term employment of EC/ICs will be implemented under an approved site-specific Site Management Plan (SMP) that will be included in the RAR. The property will continue to be registered with an E-Designation at the NYC Department of Buildings.

If Track 1 Unrestricted Use SCOs are not achieved, Institutional Controls for this remedial action would consist of:

- Continued registration of the E-Designation for the property. This RAWP includes a description of all ECs and ICs and summarizes the requirements of the Site Management Plan which will note that the property owner and property owner's successors and assigns must comply with the approved SMP;
- Site Management Plan approved by OER that provides procedures for appropriate maintenance, inspection, and certification of ECs and ICs. SMP will require that the property owner and property owner's successors and assigns will submit to OER a periodic written statement that certifies that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by OER; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. OER retains the right to enter the Site in order to evaluate the continued maintenance of any controls. This certification shall be submitted at a frequency to be determine by OER in the SMP and will comply with RCNY §43-1407(l)(3).
- Vegetable gardens and farming on the Site are prohibited;
- Use of groundwater underlying the Site is prohibited without treatment rendering it safe for its intended use;
- All future activities on the Site that will disturb residual material must be conducted

pursuant to the soil management provisions in an approved SMP;

- The Site will be used for residential use and will not be used for a higher level of use without prior approval by OER.

4.5 Site Management Plan

Site Management is not required on sites that achieve Track 1 remedial actions. However, if Track 1 Unrestricted Use SCOs are not achieved, site management will be performed and will be the last phase of remediation and begins with the approval of the Remedial Action Report and issuance of the Notice of Completion (NOC) for the Remedial Action. The SMP describes appropriate methods and procedures to ensure implementation of all ECs and ICs that are required by this RAWP. The Site Management Plan is submitted as part of the RAR but will be written in a manner that allows its use as an independent document. Site Management continues until terminated in writing by OER. The property owner is responsible to ensure that all site management responsibilities defined in the SMP are implemented.

The SMP will provide a detailed description of the procedures required to manage residual soil/fill left in place following completion of the remedial action in accordance with the Voluntary Cleanup Agreement with OER. This includes a plan for: (1) implementation of EC's and ICs; (2) implementation of monitoring programs; (3) operation and maintenance of EC's; (4) inspection and certification of EC's; and (5) reporting.

Site management activities, reporting, and EC/IC certification will be scheduled on an periodic basis to be established in the SMP and will be subject to review and modification by OER. The Site Management Plan will be based on a calendar year and certification reports will be due for submission to OER by July 30 of the year following the reporting period.

4.6 Qualitative Human Health Exposure Assessment

The objective of the qualitative exposure assessment is to identify potential receptors to the contaminants of concern (COC) that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur.

Investigations reported in the Remedial Investigation Report (RIR) are sufficient to complete a Qualitative Human Health Exposure Assessment (QHHEA). As part of the VCP process, a QHHEA was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data from the RI were evaluated to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This EA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation.

Known and Potential Sources

Based on the results of the Remedial Investigation Report, the contaminants of concern found are:

Soil

- Metals, including lead and mercury exceeding Track 2 Restricted Residential Use SCOs;
- Pesticides, including 4,4'-DDD, 4,4-DDE and 4,4'-DDT and aldrin were identified but did not exceed Restricted Residential SCOs; and
- SVOCs (PAH compounds) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)-fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene exceeded Track 2 Restricted Residential SCOs.

Groundwater:

- No groundwater was encountered at the Site to a depth of 65 feet.

Soil vapor

- Chlorinated VOCs detected well below NYS DOH monitoring thresholds including PCE, and carbon tetrachloride; and
- Petroleum VOCs detected at low concentrations including benzene, toluene, ethyl-benzene and xylenes.

Nature, Extent, Fate and Transport of Contaminants

SVOCs, pesticides and metals are present in the historic fill materials to the depths of five feet

below grade throughout the Site. Pesticides were detected in four shallow soil samples. No contaminants were detected in deeper soils. The petroleum and chlorinated VOCs identified in the soil vapor were well below guidance issued by New York State DOH and were not found in any of the on-Site soil samples collected.

Receptor Populations

On-Site Receptors – The Site is currently vacant and uncapped. Access to Site is restricted by an 8 foot high, chained and locked, perimeter fence. During redevelopment of the Site, the on-Site potential receptors will include construction workers, site representatives, and visitors. Once the Site is redeveloped, the on-Site potential sensitive receptors will include adult and child building residents and visitors.

Off-Site Receptors - Potential off-Site receptors within a 0.25-mile radius of the Site include: adult and child residents, and commercial and construction workers, pedestrians, trespassers, and cyclists, based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Building Construction/Renovation (up to 0.25 mile) – existing and future
4. Pedestrians, Trespassers, Cyclists (up to .25 mile) – existing and future
5. Schools (up to .25 mile) – existing and future

Potential Routes of Exposure

The five elements of an exposure pathway are: (1) a contaminant source; (2) contaminant release and transport mechanisms; (3) a point of exposure; (4) a route of exposure; and (5) a receptor population. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill, or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, soil, or building materials

Existence of Human Health Exposure

Current Conditions: The potential for exposure to surficial historic fill is limited due the chained and lock perimeter fence. The Site is served by the public water supply and groundwater use for potable supply is prohibited, groundwater is not used at the Site. As there is currently no structure onsite, accumulation of soil vapor is not significant concern.

Construction/ Remediation Activities: Once redevelopment activities begin, construction workers will come into direct contact with surface and subsurface soils, as a result of on-Site construction and excavation activities. On-Site construction workers potentially could ingest, inhale or have dermal contact with any exposed impacted soil, and fill. Similarly, off-Site receptors could be exposed to dust and vapors from on-Site activities. During construction, on-Site and off-Site exposures to contaminated dust from on-Site will be addressed through the Soil/Materials Management Plan, dust controls, and through the implementation of the Community Air-Monitoring Program and a Construction Health and Safety Plan.

Proposed Future Conditions: Under future remediated conditions, all soils in excess of Track 1 SCOs will be removed. The Site will be fully capped, limiting potential direct exposure to soil and groundwater remaining in place, and a vapor barrier system will prevent any exposure to potential off site soil vapors in the future. The Site is served by a public water supply, and groundwater is not used at the Site for potable supply. There are no plausible off-Site pathways for ingestion, inhalation, or dermal exposure to contaminants derived from the Site under future conditions.

Overall Human Health Exposure Assessment

There are no complete exposure pathways (i.e., source, route to exposure, receptor population) for the current condition and for the post-construction condition. There is a potential complete, exposure pathway that requires mitigation during implementation of the remedy. This

assessment takes into consideration the reasonably anticipated use of the site, which includes a residential structure, site-wide impervious surface cover cap, and a subsurface vapor barrier system for the building. Potential post-construction use of groundwater is not considered an option because groundwater in this area of New York City is not used as a potable water source. There are no surface waters in close proximity to the Site that could be impacted or threatened.

Based upon this analysis, complete on-Site exposure pathways appear to be present only during the current unremediated phase and the remedial action phase. Under current conditions, on-Site exposure pathways exist for those given access to the Site or trespassers. During remedial construction, on-Site and off-Site exposures to contaminated dust from historic fill material will be addressed through dust controls, and through the implementation of the Community Air Monitoring Program, the Soil/Materials Management Plan, and a Construction Health and Safety Plan. After the remedial action is complete, there will be no remaining exposure pathways to on-Site soil/fill, as all soil above Unrestricted Use SCOs will have been removed and a vapor barrier system will have been installed as part of development.

5.0 REMEDIAL ACTION MANAGEMENT

5.1 Project Organization and Oversight

Principal personnel who will participate in the remedial action include Kristen DiScenza, Project Manager-EBC and Kevin Waters, Field Operations Officer-EBC. The Professional Engineer (PE) and Qualified Environmental Professionals (QEP) for this project are Ariel Czemerinski P.E., AMC Engineering and Charles Sosik P.G. EBC.

5.2 Site Security

Site access will be controlled by a chain link or wooden construction fence, which will surround the property.

5.3 Work Hours

The hours for operation of remedial construction will be from 7:00AM to 6:00PM. These hours conform to the New York City Department of Buildings construction code requirements.

5.4 Construction Health and Safety Plan

The Health and Safety Plan is included in Appendix 4. The Site Safety Coordinator will be Kevin Waters - EBC. Remedial work performed under this RAWP will be in full compliance with applicable health and safety laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Confined space entry, if any, will comply with OSHA requirements and industry standards and will address potential risks. The parties performing the remedial construction work will ensure that performance of work is in compliance with the HASP and applicable laws and regulations. The HASP pertains to remedial and invasive work performed at the Site until the issuance of the Notice of Completion.

All field personnel involved in remedial activities will participate in training required under 29 CFR 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Site Safety Officer will be responsible for maintaining workers training records.

Personnel entering any exclusion zone will be trained in the provisions of the HASP and be required to sign an HASP acknowledgment. Site-specific training will be provided to field personnel. Additional safety training may be added depending on the tasks performed.

Emergency telephone numbers will be posted at the site location before any remedial work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; PPE levels and other relevant safety topics. Meetings will be documented in a log book or specific form.

An emergency contact sheet with names and phone numbers is included in the HASP. That document will define the specific project contacts for use in case of emergency.

5.5 Community Air Monitoring Plan

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work.

Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In

addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

5.6 Agency Approvals

All permits or government approvals required for remedial construction have been or will be obtained prior to the start of remedial construction. Approval of this RAWP by OER does not constitute satisfaction of these requirements and will not be a substitute for any required permit.

5.7 Site Preparation

Pre-Construction Meeting

OER will be invited to attend the pre-construction meeting at the Site with all parties involved in the remedial process prior to the start of remedial construction activities.

Mobilization

Mobilization will be conducted as necessary for each phase of work at the Site. Mobilization includes field personnel orientation, equipment mobilization (including securing all sampling equipment needed for the field investigation), marking/staking sampling locations and utility mark-outs. Each field team member will attend an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

Utility Marker Layouts, Easement Layouts

The presence of utilities and easements on the Site will be fully investigated prior to the performance of invasive work such as excavation or drilling under this plan by using, at a minimum, the One-Call System (811). Underground utilities may pose an electrocution, explosion, or other hazard during excavation or drilling activities. All invasive activities will be performed incompliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities will be contacted to locate and mark the locations, and a copy of the Markout Ticket will be retained by the contractor prior to the start of drilling, excavation or other invasive subsurface operations. Overhead utilities may also be present within the anticipated work zones. Electrical hazards associated with drilling in the vicinity of overhead utilities will be prevented by maintaining a safe distance between overhead power lines and drill rig masts.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations will be employed during invasive and other work contemplated under this RAWP. The integrity and safety of on-Site and off-Site structures will be maintained during all invasive, excavation or other remedial activity performed under the RAWP.

Equipment and Material Staging

Equipment and materials will be stored and staged in a manner that complies with applicable laws and regulations. Staging locations will be reported to OER prior to the start of the remedial action.

Stabilized Construction Entrance

Steps will be taken to ensure that trucks departing the Site will not track soil, fill or debris off-Site. Such actions may include use of cleaned asphalt or concrete roads or use of stone or other aggregate-based egress paths between the truck inspection station and the property exit. Measures will be taken to ensure that adjacent roadways will be kept clean of project related soils, fill and debris.

Truck Inspection Station

An outbound-truck inspection station will be set up close to the Site exit. Before exiting the NYC

VCP Site, trucks will be required to stop at the truck inspection station and will be examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris will be removed. Brooms, shovels and potable water will be utilized for the removal of soil from vehicles and equipment, as necessary.

Extreme Storm Preparedness and Response Contingency Plan

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures and cause downed power lines creating dangerous site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the enrollee will undertake the following steps for site preparedness prior to the event and response after the event.

Storm Preparedness

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; lose materials will be secured to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from holes, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, haybales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

Storm Response

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A site inspection report will be submitted to OER at the completion of site inspection and after the site security is assessed. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm

event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911. Petroleum spills will be reported to NYS DEC within 2 hours of identification and consistent with State regulations. Emergency and spill conditions will also be reported to OER. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed. Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will by collected and appropriately managed. Support of excavation structure will be inspected and fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Storm-water control systems and structures will be inspected and maintained as necessary. If soil or fill materials are discharged off-Site to adjacent properties, property owners and OER will be notified and corrective measure plan designed to remove and clean dislocated material will be submitted to OER and implemented following approval by OER and granting of site access by the property owner. Impacted offsite areas may require characterization based on site conditions, at the discretion of OER. If on-Site petroleum spills are identified, a qualified environmental professional will determine the nature and extent of the spill and report to NYS DEC's spill hotline at DEC 800-457-7362. If the source of the spill is ongoing and can be identified, it should be stopped it this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYS DEC.

Storm Response Reporting

A site inspection report will be submitted to OER at the completion of site inspection. An inspection report established by OER is available on OER's website (www.nyc.gov/oer) and will be used for this purpose. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. The site inspection report will be sent to the OER project manager and will include the site name, address, tax block and lot, site primary and alternate contact name and phone number. Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles

were damaged; photographs of damage and notice of plan for repair; report of whether soil from the site was dislocated and whether any of the soil left the Site; estimates of the volume of soil that left the site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of onsite or offsite exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYS DEC; description of corrective actions; schedule for corrective actions. This report should be completed and submitted to OER project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

5.8 Traffic Control

Drivers of trucks leaving the NYC VCP Site with soil/fill will be instructed to proceed without stopping in the vicinity of the site to prevent neighborhood impacts. The planned route on local roads for trucks leaving the Site will be to continue west on Fulton Street making a right on Flatbush Avenue and continuing to Interstate - 278 Brooklyn Queens Expressway.

5.9 Demobilization

Demobilization will include:

- As necessary, restoration of temporary access areas and areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management areas, and access area);
- Removal of sediment from erosion control measures and truck wash and disposal of materials in accordance with applicable laws and regulations;
- Equipment decontamination, and;
- General refuse disposal.

Equipment will be decontaminated and demobilized at the completion of all field activities. Investigation equipment and large equipment (*e.g.*, soil excavators) will be washed at the truck inspection station as necessary. In addition, all investigation and remediation derived waste will be appropriately disposed.

5.10 Reporting and Record Keeping

Daily Reports

Daily reports providing a general summary of activities for each day of *active remedial work* will be emailed to the OER Project Manager by the end of the following day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of work performed;
- Quantities of material imported and exported from the Site;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions, if any;
- Photograph of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the Remedial Action Report.

Record Keeping and Photo-Documentation

Job-site record keeping for all remedial work will be performed. These records will be maintained on-Site during the project and will be available for inspection by OER staff. Representative photographs will be taken of the Site prior to any remedial activities and during major remedial activities to illustrate remedial program elements and contaminant source areas. Photographs will be submitted at the completion of the project in the RAR in digital format (i.e. jpeg files).

5.11 Complaint Management

All complaints from citizens will be promptly reported to OER. Complaints will be addressed

and outcomes will also be reported to OER in daily reports. Notices to OER will include the nature of the complaint, the party providing the complaint, and the actions taken to resolve any problems.

5.12 Deviations from the Remedial Action Work Plan

All changes to the RAWP will be reported to the OER Project Manager and will be documented in daily reports and reported in the Remedial Action Report. The process to be followed if there are any deviations from the RAWP will include a request for approval for the change from OER noting the following:

- Reasons for deviating from the approved RAWP;
- Effect of the deviations on overall remedy; and
- Determination that the remedial action with the deviation(s) is protective of public health and the environment.

6.0 REMEDIAL ACTION REPORT

A Remedial Action Report (RAR) will be submitted to OER following implementation of the remedial action defined in this RAWP. The RAR will document that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The RAR will include:

- Information required by this RAWP;
- As-built drawings for all constructed remedial elements, required certifications, manifests and other written and photographic documentation of remedial work performed under this remedy;
- Site Management Plan;
- Description of any changes in the remedial action from the elements provided in this RAWP and associated design documents;
- Tabular summary of all end point sampling results and all material characterization results, QA/QC results for end-point sampling, and other sampling and chemical analysis performed as part of the remedial action and DUSR;
- Test results or other evidence demonstrating that remedial systems are functioning properly;
- Account of the source area locations and characteristics of all contaminated material removed from the Site including a map showing source areas;
- Account of the disposal destination of all contaminated material removed from the Site. Documentation associated with disposal of all material will include transportation and disposal records, and letters approving receipt of the material.
- Account of the origin and required chemical quality testing for material imported onto the Site.
- Continue registration of the property with an E-Designation at the NYC Department of Buildings.
- Reports and supporting material will be submitted in digital form.

Remedial Action Report Certification

The following certification will appear in front of the Executive Summary of the Remedial Action Report. The certification will include the following statements:

I, _____, am currently a professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the Site name Site Site number.

I certify that the OER-approved Remedial Action Work Plan dated month day year and Stipulations in a letter dated month day, year; if any were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

7.0 SCHEDULE

The table below presents a schedule for the proposed remedial action and reporting. If the schedule for remediation and development activities changes, it will be updated and submitted to OER. Currently, a 6 month remediation period is anticipated.

Schedule Milestone	Weeks from Remedial Action Start	Duration (weeks)
OER Approval of RAWP	0	-
Fact Sheet 2 announcing start of remedy	0	-
Mobilization	1	1
Remedial Excavation	2	6
Demobilization	10	1
Submit Remedial Action Report	20	-

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TABLES

TABLE 1
SOIL CLEANUP OBJECTIVES
SOIL IMPORT CRITERIA

Contaminant	CAS Number	Unrestricted Use
Metals		
Arsenic	7440-38-2	13 [c]
Barium	7440-39-3	350 [c]
Beryllium	7440-41-7	7.2
Cadmium	7440-43-9	2.5 [c]
Chromium, hexavalent [e]	18540-29-9	1 [b]
Chromium, trivalent [e]	16065-83-1	30 [c]
Copper	7440-50-8	50
Total Cyanide [e, f]		27
Lead	7439-92-1	63 [c]
Manganese	7439-96-5	1600 [c]
Total Mercury		0.18 [c]
Nickel	7440-02-0	30
Selenium	7782-49-2	3.9 [c]
Silver	7440-22-4	2
Zinc	7440-66-6	109 [c]
PCBs/Pesticides		
2,4,5-TP Acid (Silvex) [f]	93-72-1	3.8
4,4'-DDE	72-55-9	0.0033 [b]
4,4'-DDT	50-29-3	0.0033 [b]
4,4'-DDD	72-54-8	0.0033 [b]
Aldrin	309-00-2	0.005 [c]
alpha-BHC	319-84-6	0.02
beta-BHC	319-85-7	0.036
Chlordane (alpha)	5103-71-9	0.094

TABLE 1
SOIL CLEANUP OBJECTIVES

Contaminant	CAS Number	Unrestricted Use
delta-BHC [g]	319-86-8	0.04
Dibenzofuran [f]	132-64-9	7
Dieldrin	60-57-1	0.005 [c]
Endosulfan I [d, f]	959-98-8	2.4
Endosulfan II [d, f]	33213-65-9	2.4
Endosulfan sulfate [d, f]	1031-07-8	2.4
Endrin	72-20-8	0.014
Heptachlor	76-44-8	0.042
Lindane	58-89-9	0.1
Polychlorinated biphenyls	1336-36-3	0.1
Semivolatile organic compounds		
Acenaphthene	83-32-9	20
Acenapthylene [f]	208-96-8	100 [a]
Anthracene [f]	120-12-7	100 [a]
Benz(a)anthracene [f]	56-55-3	1[c]
Benzo(a)pyrene	50-32-8	1[c]
Benzo(b)fluoranthene [f]	205-99-2	1[c]
Benzo(g,h,i)perylene [f]	191-24-2	100
Benzo(k)fluoranthene [f]	207-08-9	0.8 [c]
Chrysene [f]	218-01-9	1[c]
Dibenz(a,h)anthracene [f]	53-70-3	0.33 [b]
Fluoranthene [f]	206-44-0	100 [a]
Fluorene	86-73-7	30
Indeno(1,2,3-cd)pyrene [f]	193-39-5	0.5 [c]
m-Cresol [f]	108-39-4	0.33 [b]
Naphthalene [f]	91-20-3	12
o-Cresol [f]	95-48-7	0.33 [b]

TABLE 1
SOIL CLEANUP OBJECTIVES

Contaminant	CAS Number	Unrestricted Use
p-Cresol [f]	106-44-5	0.33 [b]
Pentachlorophenol	87-86-5	0.8 [b]
Phenanthrene [f]	85-01-8	100
Phenol	108-95-2	0.33 [b]
Pyrene [f]	129-00-0	100
Volatile organic compounds		
1,1,1-Trichloroethane [f]	71-55-6	0.68
1,1-Dichloroethane [f]	75-34-3	0.27
1,1-Dichloroethene [f]	75-35-4	0.33
1,2-Dichlorobenzene [f]	95-50-1	1.1
1,2-Dichloroethane	107-06-2	0.02 [c]
cis -1,2-Dichloroethene [f]	156-59-2	0.25
trans-1,2-Dichloroethene [f]	156-60-5	0.19
1,3-Dichlorobenzene [f]	541-73-1	2.4
1,4-Dichlorobenzene	106-46-7	1.8
1,4-Dioxane	123-91-1	0.1 [b]
Acetone	67-64-1	0.05
Benzene	71-43-2	0.06
n-Butylbenzene [f]	104-51-8	12
Carbon tetrachloride [f]	56-23-5	0.76
Chlorobenzene	108-90-7	1.1
Chloroform	67-66-3	0.37
Ethylbenzene [f]	100-41-4	1
Hexachlorobenzene [f]	118-74-1	0.33[b]
Methyl ethyl ketone	78-93-3	0.12
Methyl tert-butyl ether [f]	1634-04-4	0.93
Methylene chloride	75-09-2	0.05

TABLE 1
SOIL CLEANUP OBJECTIVES

Contaminant	CAS Number	Unrestricted Use
n - Propylbenzene [f]	103-65-1	3.9
sec-Butylbenzene [f]	135-98-8	11
tert-Butylbenzene [f]	98-06-6	5.9
Tetrachloroethene	127-18-4	1.3
Toluene	108-88-3	0.7
Trichloroethene	79-01-6	0.47
1,2,4-Trimethylbenzene [f]	95-63-6	3.6
1,3,5-Trimethylbenzene[f]	108-67-8	8.4
Vinyl chloride[f]	75-01-4	0.02
Xylene (mixed)	1330-20-7	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Footnotes

[a] The SCOs for unrestricted use were capped at a maximum value of 100 ppm. See Technical Support Document (TSD), section 9.3.

[b] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

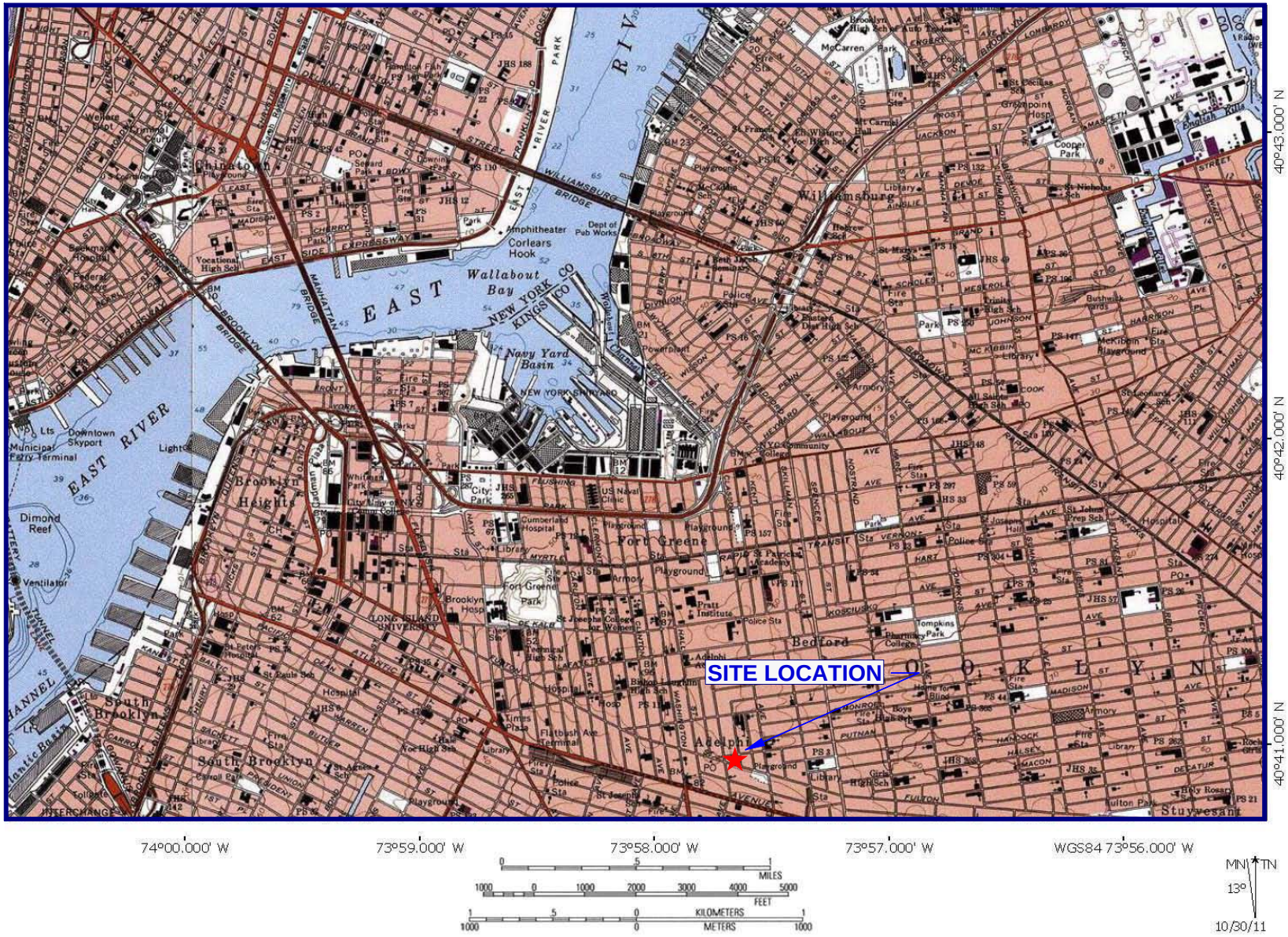
[c] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[d] SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.

[e] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[f] Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS". Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

FIGURES



USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

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BROOKLYN, NY

FIGURE 1 SITE LOCATION MAP

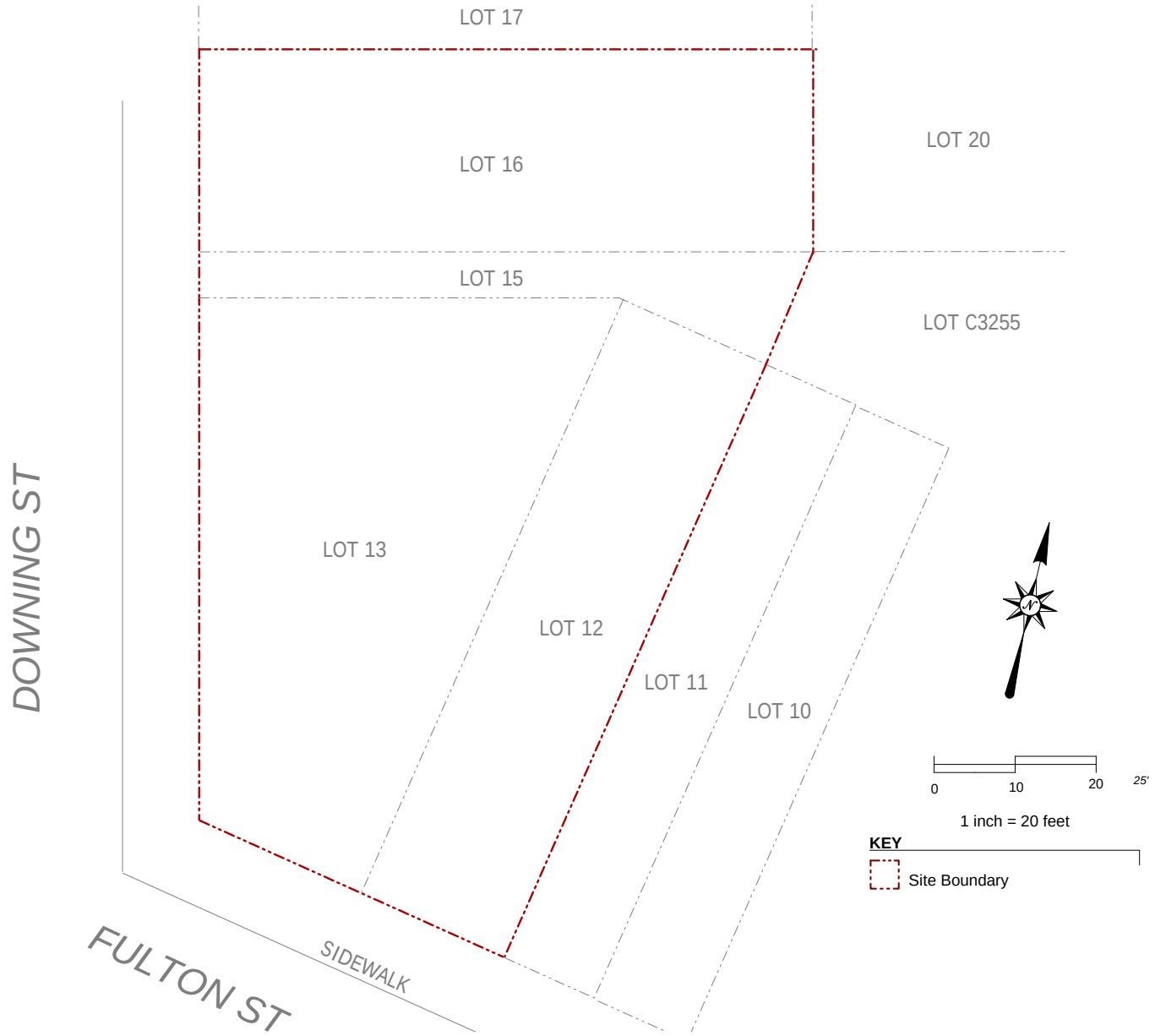

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FIGURE 2 SITE PLAN

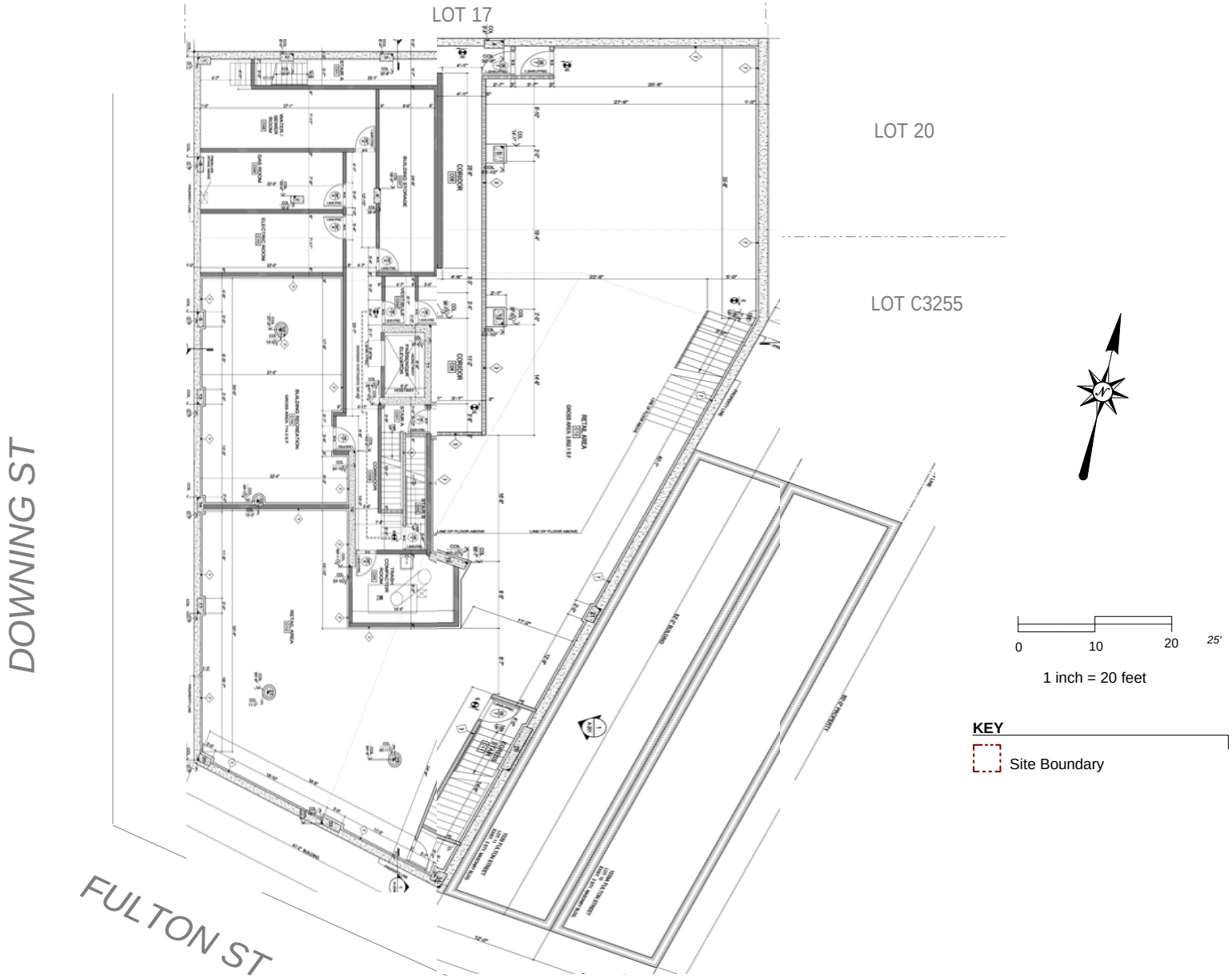

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FIGURE 3 REDEVELOPMENT PLAN

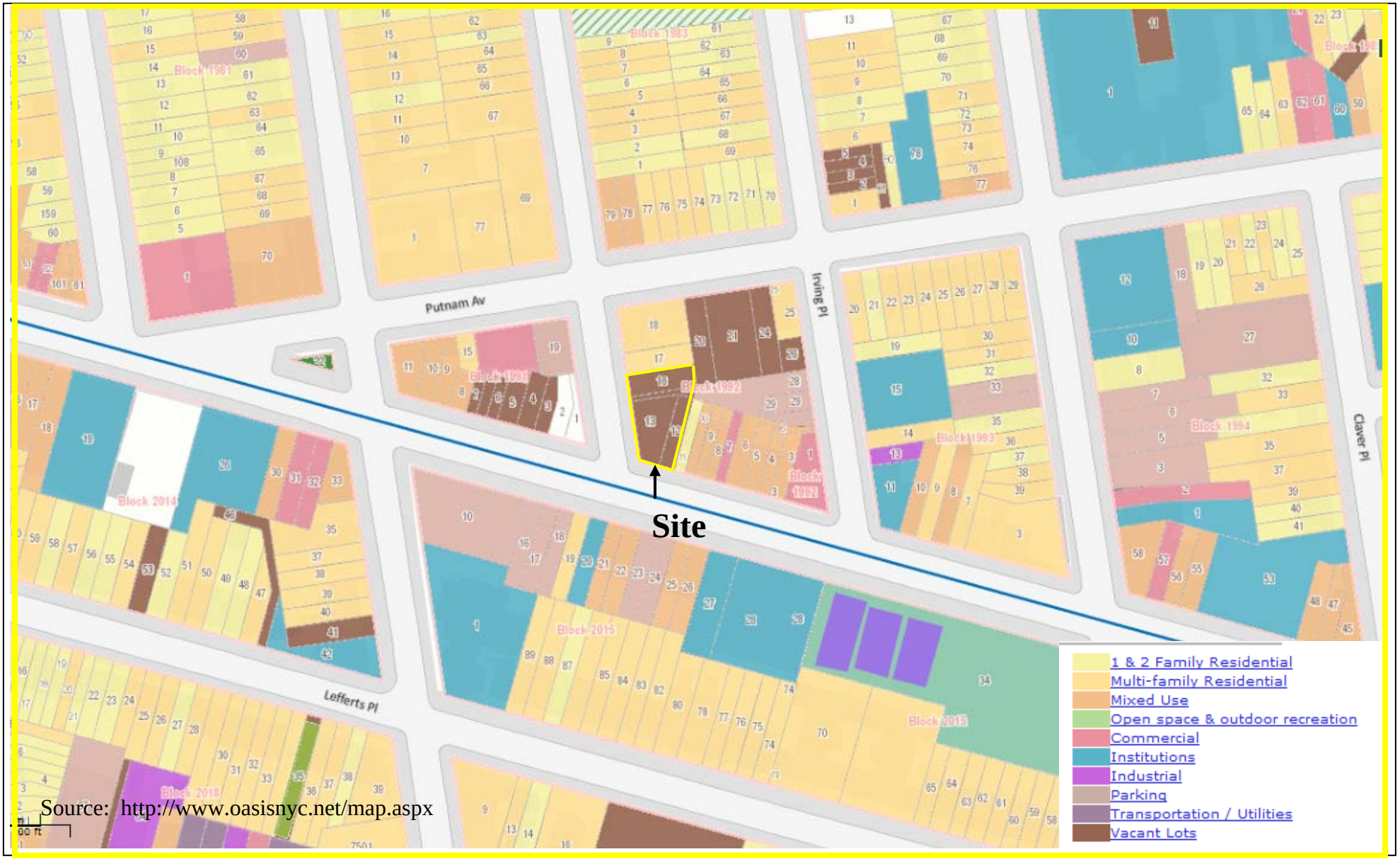

FIGURE 4
SURROUNDING LAND USE MAP

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HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT

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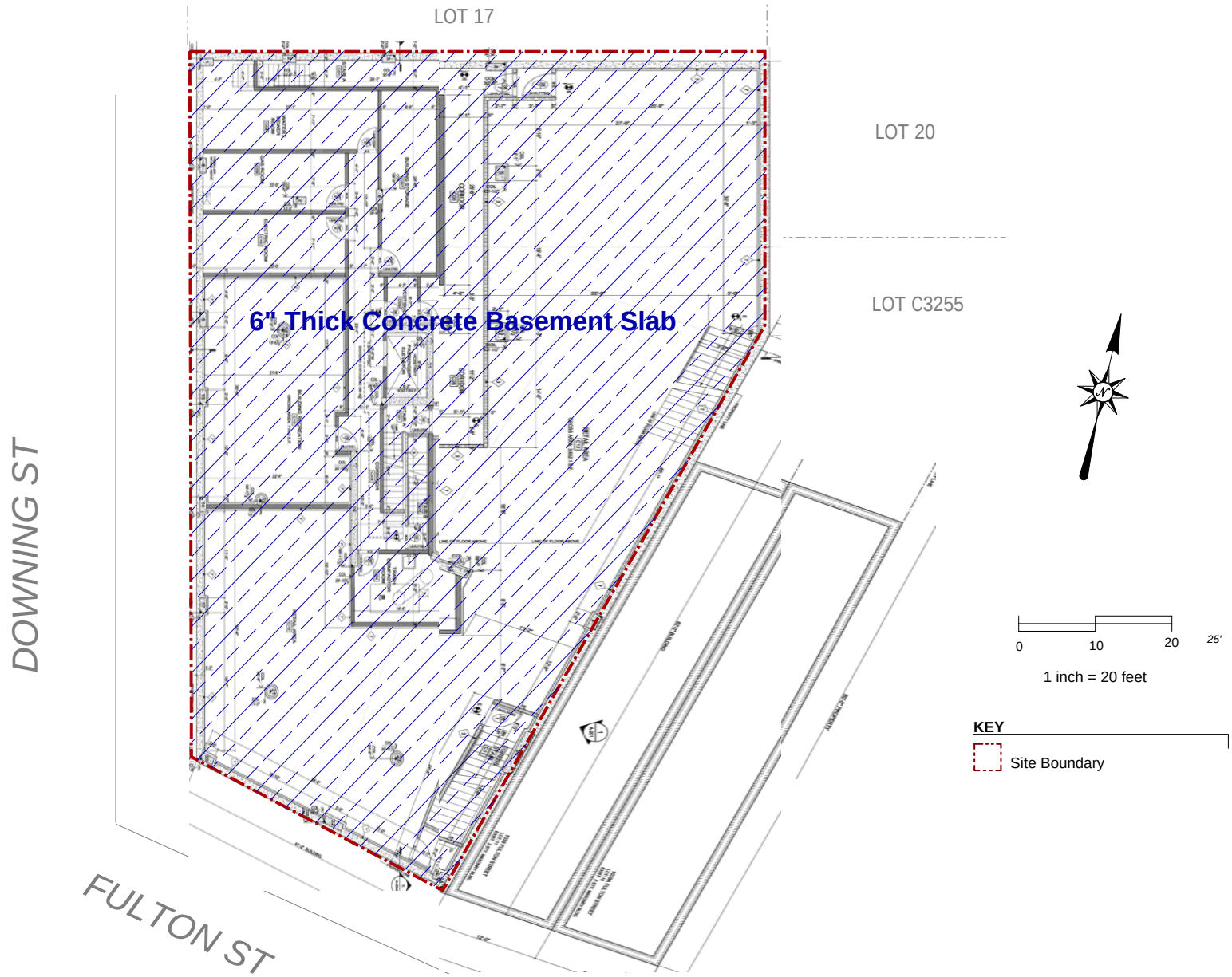

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FIGURE 5
EXCAVATION AND CAPPING PLAN

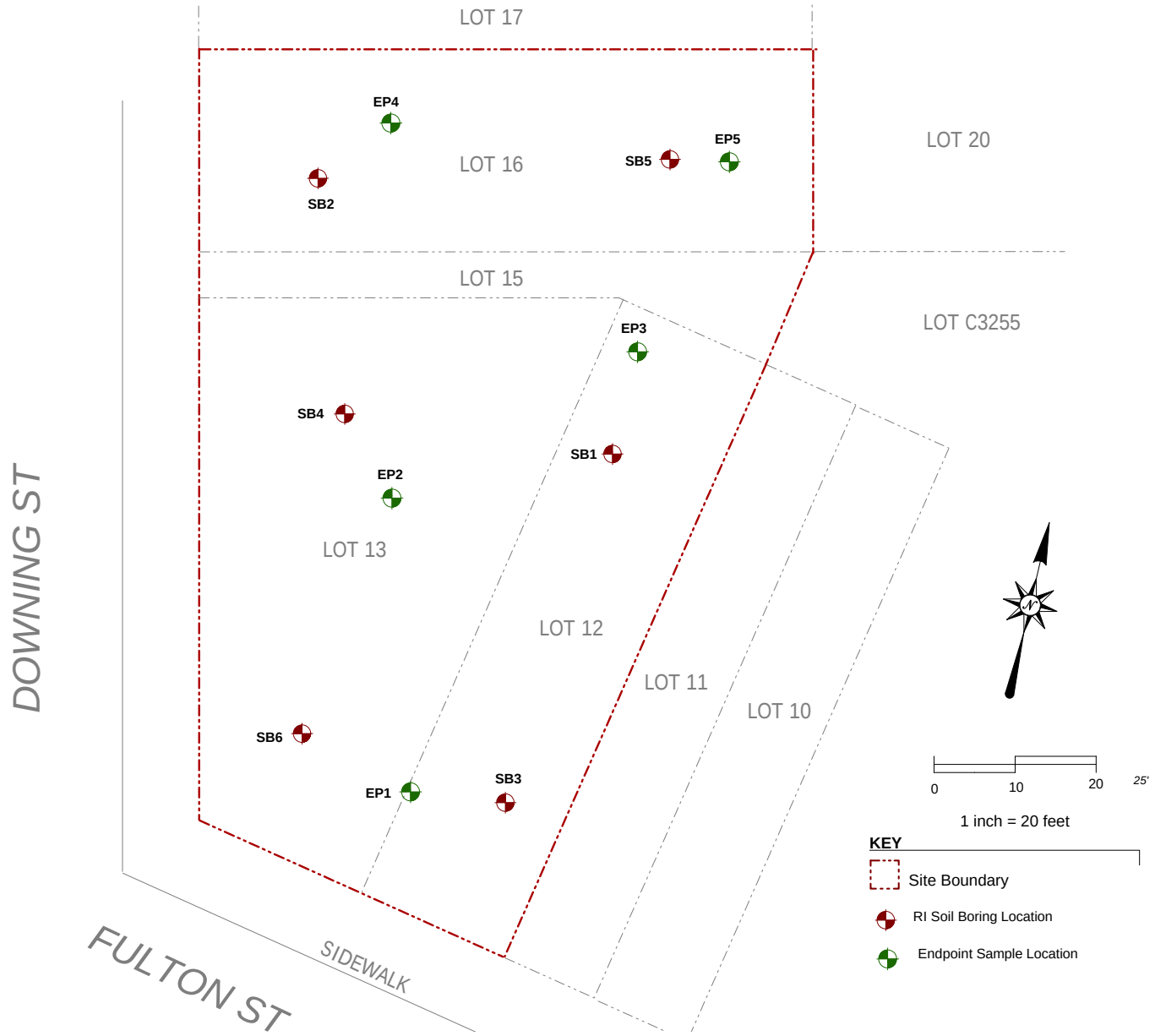

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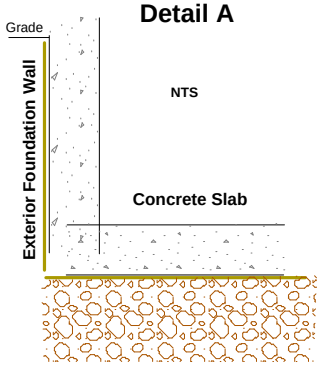
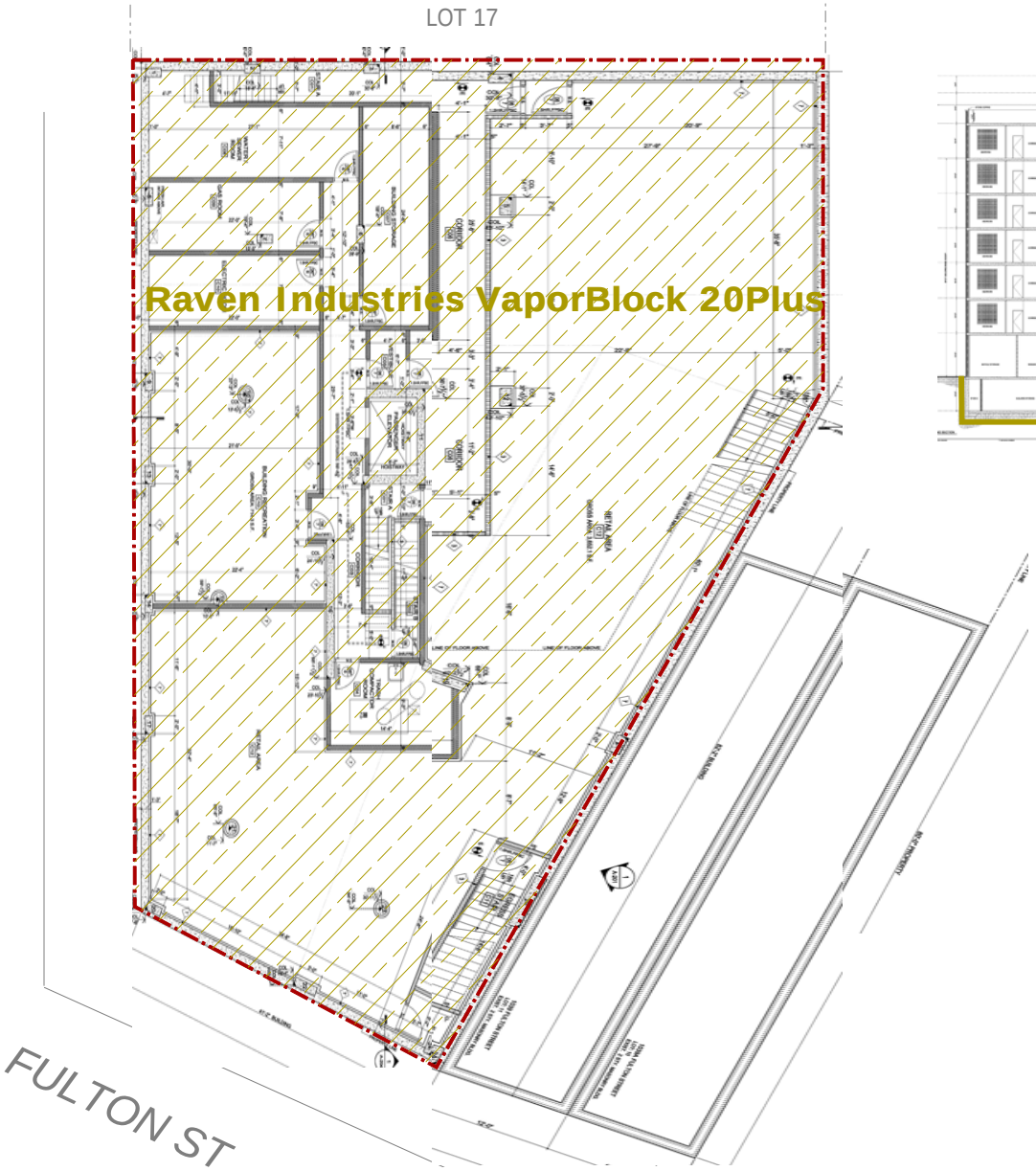
FIGURE 6
ENDPOINT SAMPLING PLAN

Detail A





Detail B

0 10 20 25'

1 inch = 20 feet

KEY

Site Boundary

VaporBlock 20Plus

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FIGURE 7

VAPOR BARRIER PLAN

ATTACHMENT A
PROPOSED DEVELOPMENT PLANS

ABBREVIATIONS

ARCH	ARCHITECT(URAL)
A.C.	AIR CONDITIONER
ACOUS	ACOUSTIC
ABV.	ABOVE
ADJ.	ADJOINING
ADJUST	ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATELY
APPD.	APPROVED
ASPH.	ASPHALT
A.P.	APARTMENT PANEL
B.C.	BOTTOM OF CURB
BET.	BETWEEN
BLDG.	BUILDING
BLK	BLOCK
BOT.	BOTTOM
B.R.	BEDROOM
B.S.A.	BOARD OF STANDARDS AND APPEALS
B.U.	BUILT UP
B.V.	BATH/TOILET VENT
CONT.	CONTRACT
C.	CARPET
C.G.	CORNER GUARD
C.I.	CAST IRON
CAB.	CABINET
CEM	CEMENT
CIND.	CINDER
CLG.	CEILING
CL.	CLOSET
C.L.	CENTER LINE
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONV.	CONVECTOR
CONT.	CONTINOUS
CORR.	CORRIDOR
C.R.	CLOTHES RACK
C.T.	CERAMIC TILE
C.C.	COMMUNICATIONS PANEL
C.M.U.	CONCRETE MASONRY UNIT
C.J.	CONTROL JOINT
C.V.	CORRIDOR VENT
D.	DRYER
D.A.	DINING ALCOVE OR DINING AREA
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.H.	DOUBLE HUNG
DN.	DOWN
DR.	DINING ROOM
D.W.	DISH WASHER
DWG.	DRAWING
DF.	DRINKING FOUNTAIN
DV.	DRYER VENT
EA.	EACH
ELEC.	ELECTRIC
EL.	ELEVATION
ELEV.	ELEVATOR
ENGR.	ENGINEER
EXH.	EXHAUST
EQUIP.	EQUIPMENT
EXIST'G	EXISTING
E.J.	EXPANSION JOINT
EQ.	EQUAL
F.	FOYER
F.A.I.	FRESH AIR INTAKE
F.B.O.	FURNISHED BY OTHERS
FIN.	FINISH
FIXT.	FIXTURE
F.L.	FLOOR
F.D.	FLOOR DRAIN
FLASH	FLASHING
F.P.S.C.	FIREPROOF SELF-CLOSING
F.S.P.	FIRE STANDPIPE
FURR.	METAL FURRING
F.T.	TERRAZO FRITZ TILE
G.	GAS
GALV.	GALVANIZED
GA	GAUGE
G.B.	GRAB BAR
G.C.T.	GLAZED CERAMIC TILE
GEN	GENERAL
GL.	GLASS, GLAZING
GR	GRADE
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALLBOARD
H. CLG	HUNG CEILING
HC	HOLLOW CORE
HT	HEIGHT
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HORIZ	HORIZONTAL
H.R.	HANDRAIL\
HR.	HOUR
HVAC	HEATING, VENTILATING/ AIR CONDITIONING
HTG.	HEATING
I.N.R.	IMPACT NOISE RATING
INSUL	INSULATION
INT.	INTERIOR
I.D.	INSIDE DIAMETER
INC.	INCLUDING
JAN. CL	JANITOR CLOSET
JT.	JOINT
K.	KITCHEN, KITCHENETTE
KPL	KICK PLATE
LM	LAMINATED
LAV.	LAVATORY
L.CL.	LINEN CLOSET
LDR.	LEADER
L.P.	LOW POINT
LT. WT.	LIGHT WEIGHT
MACH.	MACHINE
MAINT.	MAINTANENCE
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
M.C.	MEDICINE CABINET
MET.	METAL
MIN.	MINUMUM
MIRR.	MIRROR
M.O.	MASONRY OPENING
MH	MANHOLE
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFF.	OFFICE
OPNG.	OPENING (OPG)
OPP.	OPPOSITE
P.	PAINT
PART.	PARTITION
PART.E.	PARTITON END
PAV'T	PAVEMENT
P.E.	PASSENGER ELEVATOR
PERF.	PERFORATED
PL/P.L.	PLATE, PROPERTY LINE
PLAST	PLASTER
POL.	POLISH
PRE.FAB.	PREFABRICATED
PLAS.LAM	PLASTIC LAMINATE
PL.	PROTECTION PLATE
R.	RISERS, RANGE
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFRIGERATOR, REFERENCE
REINF.	REINFORCED
REQ'D	REQUIRED
RESIST.	RESISTANT
RM.	ROOM
S.	SINK
SCHED.	SCHEDULED
S.E.	SERVICE ELEVATOR
SECT.	SECTION
SH.	SHOWER
SPECS.	SPECIFICATIONS
S.T.C.	SOUND TRANSMISSION CLASS
STL.	STEEL
S.S.	STAINLESS STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SIM.	SIMILAR
S.O.	SLAB OPENING
T.	TREAD
T.	TOILET
T.A.	TRANSIT AUTHORITY
T.C.	TOP OF CURB
THK.	THICK
T.O.	TRIMMED OPENING
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
TYP.	TYPICAL
T.B.	TOWEL BAR
T.C.P.	TOP OF CONCRETE PLANK
T.X.	TOILET EXHAUST
V.C.T.	VINYL COMPOSTION TILE
V.C.G.	VINYL CORNER GUARD
VENT.	VENTILATION
VEST.	VESTIBULE
V.W.C.	VINYL WALL COVERING
W.	WASHING MACHINE
W.H.	WEEP HOLES
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W. GL	WIRE GLASS
W.P.	WATERPROOFING
W.R. GWB	WATER RESISTANT GYPSUM BOARD

SYMBOLS AND MATERIALS

- CONCRETE
- BRICK
- CONCRETE BLOCK
- INDICATES PARTITION TYPE
- INDICATES WATER RESISTANT GYPSUM BOARD
- TOP LETTER DENOTES DETAIL NUMBER
- BOTTOM NUMBER DENOTES DRAWING NUMBER
- TOP DENOTES DOOR TYPE (SEE DOOR SCHEDULE)
- BOTTOM DENOTES HARDWARE (SEE SPECIFICATIONS)
- STARTING POINT
- EXIT & EMERGENCY LIGHT
- SD/CD — SMOKE / CARBON MONOXIDE DETECTOR

N.B.

APPLICATIONS FILED SEPARATELY:

STRUCTURAL

PLUMBING, MECHANICAL, BOILER, SPRINKLER

BUILDERS PAVEMENT PLAN (B.P.P.)

UNDERPINNING & SHORING

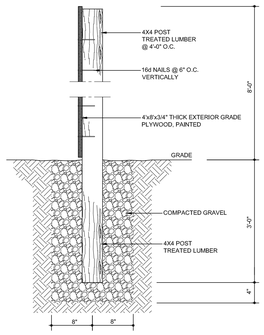
FIRE ALARM (SPRINKLER ALARM)

DRAWING SCHEDULE

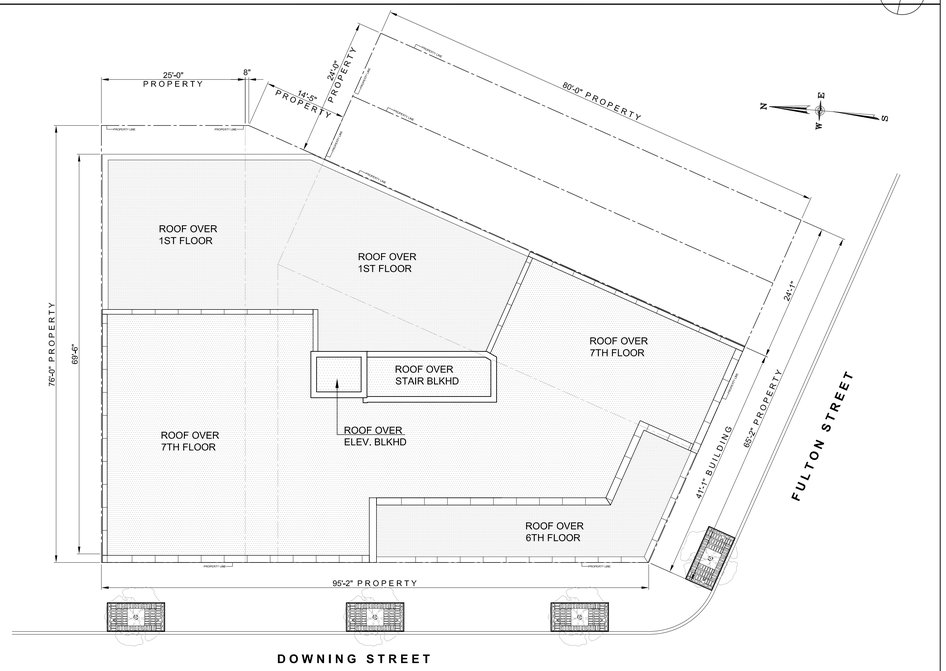
ARCHITECTURAL DRAWING LIST

Z-001 ZONING AND CODE ANALYSIS
Z-002 ZONING AND CODE ANALYSIS
Z-003 EXTERIOR WALL THICKNESS DEDUCTION
A-001 CODE ANALYSIS, FLOOD MAP, DRAWING LIST
A-002 GENERAL NOTES
A-003 SPECIAL INSPECTION, MANEUVERING CLEARANCES
A-101 PROPOSED CELLAR PLAN
A-102 PROPOSED 1ST FLOOR PLAN
A-103 POPOSED 2ND FLOOR PLAN
A-104 PROPOSED 3RD FLOOR PLAN
A-105 PROPOSED 4TH FLOOR PLAN
A-106 PROPOSED 5TH FLOOR PLAN
A-107 PROPOSED ROOF & BULKHEAD ROOF PLANS
A-201 ELEVATIONS
A-202 CROSS SECTION
A-203 CROSS SECTION
A-204 CROSS SECTIONS
A-205 CROSS SECTION
A-206 CROSS SECTION
A-301 CELLAR REFLECTED CEILING PLAN
A-302 1ST FLOOR REFLECTED CEILING PLAN
A-303 2ND FLOOR REFLECTED CEILING PLAN
A-304 3RD FLOOR REFLECTED CEILING PLAN
A-305 4TH FLOOR REFLECTED CEILING PLAN
A-306 5TH FLOOR REFLECTED CEILING PLAN
A-307 STAIR BULKHEAD REFLECTED CEILING PLAN
A-401 PARTITION TYPES
A-402 FINISH SCHEDULE
A-403 DOOR SCHEDULE, WINDOW SCHEDULE
A-404 BATHROOM ELEVATIONS
A-405 KITCHEN ELEVATIONS
A-406 KITCHEN ELEVATIONS
A-501 SECTION DETAILS
A-502 SECTION DETAILS
A-503 SECTION DETAILS
A-504 SECTION DETAILS
A-505 SECTION DETAILS
A-506 PLAN DETAILS

CONSTRUCTION FENCE DETAIL



CONSTRUCTION FENCE DETAIL
SCALE 1" = 1'-0"



PLOT PLAN

SCALE: 3/32" = 1'-0"
BLOCK: 1992
LOT: 10 + 11 + 12 + 13 + 15 + 16
MAP: 16C
ZONING: R7A

DATUM ELEVATION= FULTON STREET = $\frac{66.47' + 65.94' + 66.34'}{3}$ = 66.25'

DOWNING STREET = $\frac{65.74' + 65.98' + 66.16' + 66.80' + 66.67'}{5}$ = 66.27'

DATUM ELEVATION = 66.25' X 41.12' = 2,724.2
= 66.67' X 95.12' = 6,341.7
= 9,065.85 / 136.24 = **66.54'**

66.54' = [±0'-0"]

AS INDICATED ON SURVEY DATED DEC. 10TH, 2012

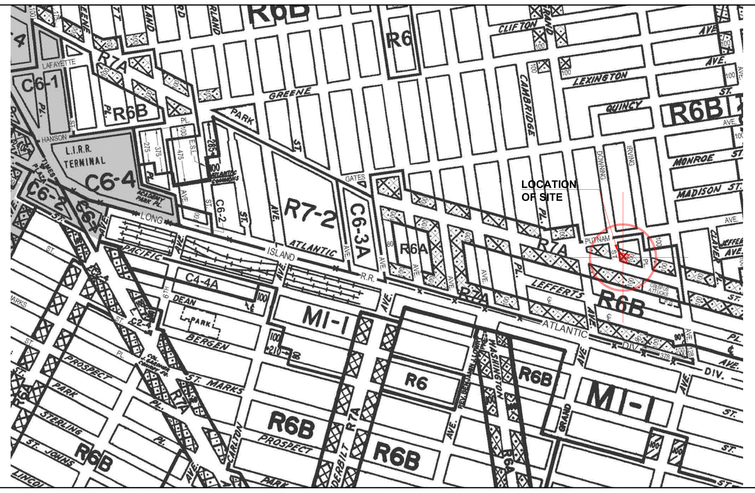
FLOOD MAP

THIS PROPERTY IS IN NOT ON A FLOOD ZONE AREA
NO MAP AVAILABLE

SPECIAL INSPECTIONS

Y	N	SPECIAL INSPECTIONS — IDENTIFICATION OF REQUIREMENT		CODE SECTION
		FLOOD ZONE COMPLIANCE		BC G105
		FIRE ALARM TEST		BC 907, BC 1704.13
		PHOTOLUMINESCENT EXIT PATH MARKINGS	TR7	BC 1026.11
		EMERGENCY POWER SYSTEMS (GENERATORS)		BC 1704.13, BC 2702
		STRUCTURAL STEEL-WELDING		BC 1704.3.1
		STRUCTURAL STEEL-ERECTION & BOLTING		BC 1704.3.2, BC 1704.3.3
		STRUCTURAL COLD-FORMED STEEL		BC 1704.3.4
		CONCRETE - CAST-IN-PLACE		BC 1704.4
		CONCRETE - PRECAST		BC 1704.4
		CONCRETE - PRESTRESSED		BC 1704.4
		CONCRETE - TEST CYLINDERS*	TR2	BC 1905.6
		CONCRETE DESIGN MIX*	TR3	BC 1905.3
		MASONRY		BC 1704.5
		WOOD - OF-SITE FABRICATION OF STRUCTURAL ELEMENTS		BC 1704.6
		WOOD - INSTALATION OF HIGH-LOAD DIAPHRAGMAS		BC 1704.6.1
		WOOD - INSTALATION OF METAL-PLATE-CONNECTED TRUSSES		BC 1704.6.3
		WOOD - INSTALATION OF PREFABRICATED I-JOISTS		BC 1704.6.4
		SOILS - SITE PREPARATION		BC 1704.7.1
		SOILS - FILL PLACEMENT & IN-PLACE DENSITY		BC 1704.7.2, BC 1704.7.3
		SOILS - INVESTIGATIONS (BORING/TEST PITS)	TR4	BC 1704.7.4
		PILE FOUNDATIONS & DRILLED PIER INSTALATION	TR5	BC 1704.8
		PIER FOUNDATIONS		BC 1704.9
		UNDERPINNING		BC 1704.9.1
		WALL PANELS, CURTAIN WALLS, AND VENEERS		BC 1704.10
		SPRAYED FIRE-RESISTANT MATERIALS		BC 1704.11
		EXTERIOR INSULATION FINISH SYSTEMS (EIFS)		BC 1704.12
		SMOKE CONTROL SYSTEMS		BC 1704.14
		MECHANICAL SYSTEMS		BC 1704.15
		FUEL-OIL STORAGE AND FUEL-OIL PIPING SYSTEMS		BC 1704.16
		HIGH-PRESSURE STEAM PIPING (WELDING)		BC 1704.17
		FUEL-GAS PIPING (WELDING)		BC 1704.18
		STRUCTURAL SAFETY - STRUCTURAL STABILITY		BC 1704.19
		MECHANICAL DEMOLITION		BC 1704.19, BC 3306.6
		EXCAVATION - SHEETING, SHORING, AND BRACING		BC 1704.19,BC 3304.4.1
		SOIL PERCOLATION TEST - DRYWELL		BC 1704.20.1
		SOIL PERCOLATION TEST - SEPTIC		BC 1704.20.1
		SITE STORM DRAINAGE DISPOSAL AND DETENTION SYSTEM INSTALATION		BC 1704.20
		SEPTIC SYSTEM INSTALATION		BC 1704.20
		SPRINKLER SYSTEMS		BC 1704.21
		STANDPIPE SYSTEMS		BC 1704.22
		HEATING SYSTEMS		BC 1704.23
		CHIMNEYS		BC 1704.24
		FIRESTOP, DRAFSTOP, AND FIREBLOCK SYSTEMS		BC 1704.25
		ALUMINIUM WELDING		BC 1704.26
		SEISMIC ISOLATION SYSTEMS		BC 1707.8
		PRELIMINARY		28-116.2.1, BC 109.2
		FOOTING AND FOUNDATION		BC 109.3.1
		LOWEST FLOOR ELEVATION (ATTACH FEMA FORM)		BC 109.3.2
		FRAME INSPECTION		BC 109.3.3
		ENERGY CODE COMPLIANCE INSPECTIONS		BC 109.3.5
		FIRE-RESISTANCE RATED CONSTRUCTION		BC 109.3.4
		PUBLIC ASSEMBLY EMERGENCY LIGHTING		28-116.2.2
		FINAL		28-116.2.4.2 AND BC 109.5 AND DIRECTIVE 14 OF 1975

ZONING MAP



1039 FULTON STREET

BROOKLYN, N.Y. 11216

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY. 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 26 Dudley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: bilevin@bv-in-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@itesacstern.com itesacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SITE PLAN, FLOOD MAP, DRAWING LIST SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. 3. 4.		A001.00

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GENERAL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS PERTAINING TO LABOR AND MATERIALS.

2. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND ITS FACILITIES (C27-127-C27-128)

3. NO WORK TO BE DONE BEYOND THE BUILDING LINES WITHOUT APPROVAL OF THE DEPARTMENT OF HIGHWAYS.

4. SIDEWALKS TO BE LAID IN ACCORDANCE WITH RULES OF THE DEPARTMENT OF HIGHWAYS.

5. BORING DIAGRAM WILL FILED BEFORE CONSTRUCTION IS STARTED AS PER SUB- ARTICLE C27-662 ADMINISTARTIVE CODE.

6. AN ACCURATE AND COMPLETE FINAL SURVEY, MADE BY A LICENSED SURVEYOR SHALL BE SUBMITTED AFTER COMPLETION OR WORK SHOWING THE LOCATION OF NEW BUILDING ELEVATION OF FIRST FLOOR, FINISHED GRADES OF OPEN SPACES ESTABLISHED CURB LEVEL, LOCATION AND BOUNDARIES OF LOT. (C27-219)

7. ALL ELEVATIONS SHALL REFER TO THE DATUM IN USE BY THE DEPARTMENT OF HIGHWAYS, BOROUGH PRESIDENT OF MANHATTAN WHICH IS 2.75 ABOVE THE U.S. COAST AND GEODETIC SURVEY DATUM OF MEAN SEA LEVEL AT SANDY HOOK (C27-158)

8. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECENCE OVER SCALED DIMENSIONS.

9. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND ARCHITECTS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS SHOWN BY THESE DRAWINGS.

10. ALL CONSTRUCTION, DIMENSIONS AND DETAILS SHALL CONCUR WITH AND BE DETERMINED FROM THESE DRAWINGS ONLY.

11. ALL MATERIALS AND CONSTRUCTION TO BE INCORPORATED IN THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS APPLICABLE, AND TO CONFORM TO THE STANDARDS AND RECOMMENDATIONS OF THE VARIOUS TRADE INSTITUTES (A.C.T., A.I.S.S. ETC) WHERE APPLICABLE. ALL MATERIALS INCORPORATED INTO THE WORK SHALL BE NEW.

12. CONTRACTORS SHALL BE RESPONSIBLE FOR ADEQUENTLY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKNESS, COLLAPSE, DISTORTIONS AND OFF-ALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.

13. POSTED OCCUPANCY AND USE, ALL BUILDING SHALL BE POSTED WITH A SIGN IN A FORM PRESRIBED BY THE DEPARTMENT, PERMANENTLY AFFIXED, PLACED IN A CONSPICIOUS LOCATION IN PUBLIC HALL OR CORRIDOR, STATING, LIVE LOADS AND OCCUPANT LOADS IN THE BUILDING AND ALL PARTS THEREOF C27-225 GROUP J IS EXEMPTED FROM THIS REQUIREMENT.

14. WHERE PIPES, WIRES, CONDUITS, DUCTS, ETC., PIERCE FIRE PROTECTION OD INDIVIDUALLY ENCASED STRUCTURAL MEMBEERS, SUCH PENETRATION SHALL NOT EXCEED 2 PERCENT OF ANY FACE SUCH PROTECTION, AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES (C27-324)

15. LINTELS SUPPORTING MASONRY WALLS OVER 4 FEET IN WIDTH SHALL BE FIRE PROTECTED WITH MATERIALS HAVING THE REQUIRED FIRE RESISTANCE-RATING OF THE WALL SUPPORTED.

16. CEILINGS THAT CONTRIBUTE TO THE REQUIRED FIRE RESISTANCE RATING OF A FLOOR OR ROOF ASSEMBLY SHALL BE CONTINOUS BETWEEN FIRE DIVISIONS, FIRE SEPERATIONS OR VERTICAL PARTITIONS HAVING THE SAME FIRE RESISTANCE RATING AS THE CEILING. CONCEALED SPACE ABOVE SUCH CEILING, UNLESS SPRINKLERED, SHALL BE FIRESTOPPED INTO AREAS NOT EXCEEDING 3,000 SQ.FT. ACCESS TO SUCH SPACE MAY BE THROUGH ONE OR MORE OPENINGS NOT EXCEEDING 9 SQ. FT. AND PROTECTED BY SELF-CLOSING OPENING PROTECTIVE. (C27-327)

17. FIRESTOPPING: CONCEALED SPACES WITHIN PARTITONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING PIPE SPACES, COLUMN ENCLOSURES, ETC. SHALL BE FIRESTOPPED (EXCEPTED WHERE CONCEALED SPACED IS SPRINKLERED OR IS CONSTRUCTED AS A SHAFT) AS FOLLOWS:
   A. CONSTRUCTION GROUP 1: WITH NON-COMBUSTIBLE MATERIAL.
   B. NON-COMBUSTIBLE FIRESTOPPING MAY BE MASONRY SET IN MORTAR, CONCRETE MORTAR OR PLASTER ON NON-COMBUSTIBLE LATH, PLASTER BOARD AT LEAST 3/8" THICK, SHEET METAL OF AT LEAST 0.002" THICK SOLID WEB METAL STRUCTURAL MEMBERS, ½" MINIMUM CEMENT BOARD OF EQUIVALENT MATERIALS, MINERAL, SLAG, OR ROCKWOOL WHEN COMPACTED INTO CONFINED SPACES. (C27-345).

18. INTERIOR FINISH: MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH THE SURFACE FLAME-SPREAD RATING OBTAINED AS PRESCRIBED IN ASTM E-84-1961 "STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS" AS PER C27-345.

19. ALL EXITS SHALL BE KEPT READILT ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.

20. ILLUMINATION OF AT LEAST 5 FOOT CANDLES MEASURED AT THE FLOOR LEVEL SHALL BE MAINTAINED CONTINOUSLY IN EXITS AND THEIR ACCESS FACILITIES.

21. EXIT LIGHTING SHALL BE ON CIRCUITS THAT ARE SEPARATE FROM ANY OTHER CIRCUITS, TAKEN OFF AHEAD OF THE MAIN SWITCH, WHERE MORE THAN FOUR LIGHTS ARE REQUIRED AS PER SECTION C27-382.

22. LOCATION OF EVERY EXIT ON EVERY FLOOR SHALL BE CLEARLY INDICATED BY EXIT SIGNS, PLACED. IF REQUIRED AT AN ANGLE WITH THE EXIT OPENING. INSTALL DIRECTIONAL SIGNS TO SERVE AS GUIDE FROM ALL PORTIONS OF THE CORRIDOR OR FLOOR, SIGNS SHALL BE ON SEPARATE CIRCUITS, TAKEN OFF AHEAD OF THE MAIN SWITCH.

23. EXIT SIGNS SHALL BE INTERNALLY LIGHTED, HAVING AN INITIAL BRIGHTNESS OF THE LETTERS OF AT LEAST 25 FEET, LAMBERT, LETTERS SHALL BE BLOCK LETTERING, AT LEAST 4 ½"HIGH, WITH 9/16" STROKES.

24. ALL INTERIOR TOILETS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH SECTION C27-759 OF THE BUILDING CODE.

25. ELEVATOR SHAFTS SHALL BE ENCLOSED WITH CONSTRUCTION FOR 2 HOUR FIRE RATING IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE-TABLE 3-4.

26. INTERIOR REQUIRED STAIR SHALL BE ENCLOSED WITH 2 HOUR FIRE RATING IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE-TABLE 3-4.

27. ALL VENT DUCT SHAFTS SHALL BE ENCLOSED WITH 2 HOUR ENCLOSURE. NO DUCT VENTS TO PASS THROUGH STAIR ENCLOSURES. 1 ½ HOUR AUTOMATIC SELF-CLOSING FIRE DAMPERS TO BE INSTALLED IN VENT DUCTS WHEN THEY PIERCE PUBLIC CORRIDORS.

28. MECHANICAL VENTILATION, AIR CONDITIONING AND REFRIGERATION.
   A. ALL FINAL INSPECTIONS AND TESTS OF A REQUIRED VENTILATING SYSTEM SHALL BE MADE (THE ARCHITECT OR ENGINEER NEED NOT TO BE IN THE EMPLOY OF THE OWNER) AS PER C27-771.
   B. ALL INSPECTIONS AND TEST OF A REFRIGERATION SYSTEM SHALL BE MADE (THE ARCHITECT OR ENGINEER NEED NOT TO BE IN THE EMPLOY OF THE OWNER) AS PER C27-771.

29. HEATING AND COMBUSTION EQUIPMENT
   A. ALL FINAL INSPECTIONS AND TESTS FOR BOILERS SHALL BE SUBJECT TO THE PROVISIONS FOR CONTROLLED INSPECTION (SUCH INSPECTIONS AND TESTS, HOWEVER, MAY BE MADE BY DEPARTMENT INSPECTIONS OR BY A DULY AUTHORIZED INSURANCE COMPANY INSPECTOR) PER C27-793.
   B. ALL APPLICATIONS FOR EQUIPMENT USE PERMIT FOR HEATING SYSTEMS SHALL BE ACCOMPANIED BY A SIGNED STATEMENT BY AN ARCHITECT OR ENGINEER STATING THAT THE SYSTEM HAS BEEN OPERATED AND FUNCTIONS SATISFACTORY AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF THE SYSTEM WILL MEET THE CODE TEMPERATURE REQUIREMENTS PER C27-187.

30. FIRE EXTINGUISHING EQUIPMENT
   A. PER C27-951- INSPECTIONS AND TESTS OF STANDPIPES ARE SUBJECT TO CONTROLLED INSPECTION. IF APPLICANT DOES NOT CHOOSE TO HAVE TESTS WITNESSED BY REPRESENTATIVE OF DEPARTMENTS.
   B. PER C27-967, C27-932-INSPECTIONS AND TEST OF SPRONKLER SYSTEMS ARE SUBJECT TO CONTROLLED INSPECTION. IF APPLICANT DOES NOT CHOOSE TO HAVE TESTS WITNESSED BY REPRESENTATIVE.

31. REFUSE CHUTE SHALL BE CONSTRUCTED STRAIGHT AND PLUMB WITHOUT PROJECTIONS OF ANY KIND SUPPORTED ON 3 HR FLOOR CONSTRUCTION.

32. REFUSE CHUTE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDING AND ANY OTHER AUTHORITY HAVING JURISDICTION.

33. INSPECTION OF REQUIRED SPRINKLERS SHALL COMPLY WITH D26-21.07.

34. FIRE SEPARATION
   A. THE OCCUPANCY CLASSIFICATION OF THE BUILDING IS OCCUPANCY GROUP (O.G.) G SUB-ARTICLE C27-237 B.C. AND CLASS "A" MULTIPLE DWELLING AS PER SECTION 4.8 M.D.L.
   B. THE CONSTRUCTION CLASIFICATION OF THE BUILDING IS CONSTRUCTION GROUP 1 NON-COMBUSTIBLE CLASS 1C AND SUB-ARTICLE C27-269 B.C. IN ACCORDANCE WITH AREA AND HEIGHT LIMITATIONS AS SPECIFIED IN SUB-ARTICLE C27-301 B.C. AND C27-305B.C. THE CONSTRUCTION ELEMENTS SHALL BE OF THE REQUIRED MINIMUM FIRE RESISTANCE RATINGS AS OUTLINED IN TABLE 3-4 AND DEFINED IN SUB- ARTICLE 27-318.

35. WOOD REQUIRED TO BE FIREPROOFED SHALL BE TESTED IN ACCORDANCE WITH REFERENCED STANDARDS RS 5-3 AND RS 5-4.

36. TOILET ROOM SIDE PARTITIONS SHALL BE 5/8" WATER RESISTANT GYPSUM WALLBOARD.

37. INTERIOR FIRE RESISTANCE

A STAIR ENCLOSURE (INCLUDING SEPERATION)	2 HR. REQUIRED FIRE RESISTANCE RATING
A ELEVATOR SHAFT	2 HR. REQUIRED FIRE RESISTANCE RATING
A DUCT SHAFT (288 SQ. INCH OR MORE)	2 HR. REQUIRED FIRE RESISTANCE RATING
A PUBLIC HALL (CORRIDOR)	2 HR. REQUIRED FIRE RESISTANCE RATING
A EXIT PASSAGEWAY (GRADE LEVEL)	2 HR. REQUIRED FIRE RESISTANCE RATING TABLE 3-4
B&C INTERIOR PARTITONS AND FURRING	O HR REQUIRED FIRE RESISTANCE RATING TABLE 3-4
FLOOR CONSTRUCTION	2 HR. REQUIRED FIRE RESISTANCE RATING TABLE 3-4

38. INTERIOR FINISHES, EXCEPT FINISHED FLOORING, FLOOR COVERINGS, WALL COVERINGS AND COATING LESS THAN .036 IN TOTAL THICKNESS, SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THAT OF THE FOLLOWING INTERIOR FINISH CLASSES:

OCCUPANCY CLASS:	CLASS G
EXITS AND SHAFTS:	A (0-25)
ROOMS GREATER THAN 1500 SQ. FEET:	B (26-75)
ROOMS LESS THAN 1500 SQ. FEET	B (26-75)

39. ENERGY CONSERVATION CODE NOTES:
   ALL PERTINENT DATA AND DESIGN CRITERIA REGARDING THE FOLLOWING COMPLY WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, CHAPTER 4. AND THE NEW YORK CITY BUILDING CODE WHICHEVER IS MORE STRINGENT:
   A. "U" VALUES OF THE ENVELOPE SUB-SYSTEM.
   B. DESIGN INSIDE AIR TEMPERATURE OF EACH ROOM THAT IS TO BE HEATED AND/OR COOLED . (72 DEG.F. FOR HEATING, 78 DEG.F. FOR COOLING)
   C. DESIGN OUTDOOR AIR TEMPERATURES (15 DEG.F. WINTER, 89 DEG.F. SUMMER)
   D. DESIGN HEAT LOSS AND/OR GAIN THROUGH EACH EXTERIOR FAÇADE IN BTU/HR.
   E. "R" VALUES OF INSULATING MATERIALS.
   F. SIZE AND TYPE OF APPARTUS AND EQUIPMENT AND SYSTEM CONTROLS IS IN CONFORMANCE WITH THE REQUIREMENTS OF THE CODE.
   G. ELECTRICAL LIGHTING AND POWER DESIGN DATA.
   H. FIRE PROTECTION CONSTRUCTION REQUIREMENTS, INCLUDING BUILDING CODE LIMITATIONS REGARDING USE OF INSULATION OR EQUIPMENT.
   I. ALL NECESSARY APPROVALS FOR ELECTRICAL WORK FROM THE BUREAU OF GAS AND ELECTRICITY WILL BE OBTAINED.

40. ALL MATERIALS ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE SECTION C27-130.

41. AT LEAST 24 HOUR WRITTEN NOTICE SHALL BE GIVEN TO THE COMMISSIONER BEFORE COMMENCEMENT OF WORK (C27-195).

42. FIVE DAYS PRIOR NOTICE SHALL BE GIVEN TO ADJOINING LOT OWNERS AFFECTED BY FOUNDATION, EARTHWORK OR DEMOLITION (C27-165 & C27-169).

43. ALL PAVED WALKS, SURFACES AND AREAWAYS WILL BE DRAINED ADEQUATELY WITHIN THE SITE.

44. WHERE PIPES, WIRES, CONDUITS, DUCTS, ETC. PEIRCE FIRE PROTECTION OF INDIVIDUALLY ENCASED STRUCTURAL MEMBERS, SUCH PENETRATION SHALL NOT EXCEED 2 OF ANY ONE FACE OF SUCH PROTECTION, AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES. (C27-324A).

45. FIRE DIVISIONS SHALL COMPLY WITH PROVISIONS OF SECTION C27-340 AND SHALL BE CONTINUOUS THROUGH ANY CONCEALED SPACE IN FLOOR OR ROOF CONSTRUCTION.

46. TENANTS NOT SEPARATED BY FIRE DIVISIONS, SHALL BE SEPARATED BY FIRE SEPARATIONS, BUT NOT LESS THAN ONE HOUR SEPARATIONS SHALL CONTINUE THROUGH CONCEALED SPACES ABOVE (C27-341).

47. FINISHED FLOORING IN ALL EXITS SHALL BE OF NON-COMBUSTIBLE MATERIAL. (C27-351)

48. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.

49. CONTRACTOR SHALL CHECK ALL CONDITIONS AND DIMENSIONS AT SITE BEFORE COMMENCING CONSTRUCTION. ARCHITECT SHALL BE NOTIFIED OF ANY ERROR OR OMISSIONS BEFORE WORK IN QUESTION IS STARTED.

50. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO STARTING THE WORK AND ALSO OBTAIN THE "CERTIFICATE OF OCCUPANCY".

51. REMOVE ALL EXISTING WALLS, PARTITIONS, DOORS, FLOORING, CEILINGS, FIXTURES, ETC. AS SHOWN ON DRAWINGS OR AS REQUIRED TO INSTALL NEW WORK.

52. WHERE EXISTING BEARING WALLS, BEAMS OR ANY OTHER STRUCTURAL SUPPORT OF THE EXISTING BUILDING IS BEING REMOVED. CONTRACTOR SHALL DO AL NECESSARY SHORING, NEEDLING, UNDERPINNING, ETC. AS REQUIRED TO MAINTAIN THE SAFETY OF THE STRUCTURE, THE WORKERS, AND THE GENERAL PUBLIC.

53. ALL SUCH MATERIALS DESIGNATED FOR "CONTROLLED INSPECTION" SHALL BE INSPECTED BY AN ARCHITECT OR ENGINEER RETAINED BY THE OWNER.

54. ORNAMENTAL PROJECTIONS AND DOOR SWINGS SHALL NOT PROJECT MORE THAN 18" BEYOND THE BUILDING LINE.

55. STOREFRONTS SHALL SUSTAIN A WIND LOAD OF 30# PER SQUARE FOOT.

56. ALL STOREFRONT MATERIALS SHALL HAVE AN INCOMBUSTIBLE RATING AND PANEL VENEER TO COMPLY WITH B.S.A. RULE #465/44SR.

57. ALL NEW STEEL RESTING ON MASONRY SHALL HAVE THREE COURSES OF BRICK UNDER SAME AND BEARING PLATES UNDER STEEL.

58. ALL REINFORCED CONCRETE MATERIALS, DESIGNS AND CONSTRUCTION SHALL BE AS ACT 318, 1963 EDITION WITH MODIFICATIONS PER RS 10-3.

59. THREE TEST CYLINDERS SHALL BE PROVIDED FOR EACH FIFTY CUBIC YARDS OF CONCRETE PLACED IN ONE DAY, AS PER RS 10.

60. ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST ASTM SPECIFICATIONS FOR A-36 AND A-50 STEEL.

61. CONTRACTOR SHALL FILE THE AFFIDAVIT OF THE PRODUCER OF STEEL, CERTIFYING THAT THE PROVISIONS OF THE LOCAL CODE ARE MET.

62. ALL CONNECTIONS SHALL BE 3/4" BOLTS OR GREATER, AS REQUIRED.

63. ALL STEEL SURFACES NOT IN CONTACT WITH CONCRETE, SHALL RECEIVE ONE SHOP COAT OF APPROVED PAINT.

64. ALL WELDING TO BE PERFORMED BY N.Y.C. LICENSED WELDERS.

65. NEW MASONRY SHALL BE LAID UP IN TYPE M OR S PORTLAND CEMENT MORTAR, 1:3 MIX WITH NOT MORE THAN 1 LIME BY VOLUME, AS PER RS 10-46, ASTM C270, 1964.

66. BRICK SHALL BE ANCHORED TO BLOCK WITH TRUSS-TYPE GALVANIZED METAL ANCHORS EVERY 160 SQUARE INCHES.

67. BLOCK WALLS SHALL HAVE "DUR-O-WALL" METAL WALL TIES EVERY OTHER BLOCK COURSE.

68. A MINIMUM OF THREE COURSES OF BRICK SHALL BE PROVIDED UNDER ALL JOISTS RESTING ON MASONRY.

69. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER AND SHALL CONFORM TO ALL CODE REQUIREMENTS.

70. ALL FIXTURES SHALL BE PROPERLY VENTED AND SHALL HAVE SHUT-OFF VALVES AT EACH FIXTURE WITH WATER SUPPLY IN COPPER PIPES.

71. ALL SOIL, WASTE AND VENT LINES IN FLOOR 2" AND LARGER, SHALL BE E.H.C.I., AND SHALL HAVE CLEAN OUTS AT THE BASE OF ALL LINES. VENTS SHALL PROJECT THROUGH THE ROOF, 4"-0".

72. ALL SERVICE EQUIPMENT SHALL BE MEA APPROVED AND AN EQUIPMENT USE PERMIT SHALL BE OBTAINED BY THE INSTALLATION CONTRACTOR FOR ALL SUCH EQUIPMENT.

73. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.

74. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM WITH ALL LOCAL LAWS, THE NATIONAL ELECTRICAL CODE AND LOCAL UTILITITY'S REQUIREMENTS.

75. ALL PARTITIONS TO BE WEDGED TIGHTLY TO CEILING.

76. PLATE GLASS TO COMPLY WITH SECTION C26-550.2.

77. GLASS DOORS TO COMPLY WITH 501-68 SR AS APPROVED BY THE B.S.A.

78. HUNG CEILING TO COMPLY WITH SECTION C27-350 & RS 5-16.

79. HUNG CEILING TO BE OF INCOMBUSTIBLE MATERIAL.

80. PROVIDE B.S.A. APPROVED TYPE PHOSPHORESCENT EXIT LIGHTS AND SIGNS AS PER SECTION C26-607.1.

81. PROVIDE SIGNS AT ELEVATOR LANDINGS AS PER SECTION C27-388.

82. PROVIDE FLOOR NUMBERING SIGNS AS PER SECTION C27-394.

83. PROVIDE STAIR AND ELEVATOR IDENTIFICATION SIGNS AS PER SECTION C27-393.

84. COMPLY WITH LOCAL LAW 76 FOR ASBESTOS.

85. COMPLY WITH LOCAL LAW 58 FOR HANDICAPPED ACCESSIBILITY.

86. UPON COMPLETION OF WORK, OWNER SHALL OBTAIN A CERTIFICATE OF OCCUPANCY FROM THE BUILDING DEPARTMENT.

SMOKE DETECTOR & CARBON MONOXIDE DETECTOR NOTES AS PER 2008 BUILDING CODE

SMOKE DETECTOR NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED AS REQUIRED BY LOCAL LAW 52 OF 1981.

2. UNITS TO BE HARD WIRED WITH INSTALLATION COMPLYING WITH RS17-11 & RS17-12 OF THE BUILDING CODE.

3. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE SMOKE DETECTOR RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUITS OTHER THAN THE CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT AS PER SECTION C26-1705.3.

4. SMOKE DETECTOR UNITS MUST BE EITHER IONIZATION CHAMBER TYPE OF THE PHOTOELECTRIC DETECTOR TYPE AS PER SECTION C26-1705.4(B) AND COMPLY WITH RS17-12.

5. UNITS TO BE APPROVED BY THE BOARD OF STANDARDS AND APPEALS. ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER OR BE LISTED BY AN ACCEPTABLE TESTING LABORATORY SUCH AS:

   A) UNDERWRITERS LAB. NORTH BROOK, ILL-MEA LAB. NO. I-69-L

   B) CANADIAN STANDARDS ASSOC., ONTARIO CANADA - MEA LAB. NO. 25-69-L

   C) UNDERWRITERS LAB. OF CANADA, ONTARIO, CANADA - MEA LAB. NO. 81-80-L

6. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH BC 907.2,6.2.3.

CARBON MONOXIDE DETECTOR NOTES

1. THE INSTALLATION OR WIRING AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE NYC ADMINISTRATIVE CODE.

2. EVERY DWELLING UNIT/BUILDING WITHIN OCCUPANCY GROUP R-2 WHERE A FOSSIL FUEL-BURNING FURNACE OR BOILER IS LOCATED SHALL BE EQUIPPED WITH AN OPERABLE CARBON MONOXIDE DETECTING DEVICE APPROVED IN ACCORDANCE WITH THE RULES PROMULGATED BY THE COMMISSIONER IN CONSULTATION WITH THE FIRE DEPARTMENT AND THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.

3. THERE SHALL BE INSTALLED AT LEAST ONE APPROVED AND OPERATIONAL CARBON MONOXIDE DETECTING DEVICE WITHIN FIFTEEN FEET OF EACH ROOM LAWFULLY USED FOR SLEEPING PURPOSES, OR ONE PER EACH DWELLING UNIT, WHICHEVER MAY APPLY.

4. SUCH CARBON MONOXIDE DETECTING DEVICE MAY BE COMBINED WITH A SMOKE DETECTOR DEVICE THAT COMPLIES WITH THE PROVISIONS OF THIS TITLE AND ANY APPLICABLE RULES PROMULGATED THEREUNDER (REF.: MUNICIPAL HOME LAW #27).

5. ALL CARBON MONOXIDE DETECTING DEVICES REQUIRED TO BE PROVIDED AND INSTALLED PURSUANT TO MUNICIPAL HOME RULE LAW #27, SHALL BE OF A TYPE AUTHORIZED BY RULES PROMULGATED BY THE COMMISSIONER.

6. THE CARBON MONOXIDE DETECTING DEVICE SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR AND BE REPLACED ,IN CASE SUCH DEVICE IS STOLEN, REMOVED, MISSING OR RENDERED INOPERABLE.

7. IT SHALL BE UNLAWFUL FOR ANY PERSON TO TAMPER WITH OR RENDER INOPERABLE CARBON MONOXIDE DETECTING DEVICE, EXCEPT FOR REPLACING THE BATTERIES OR FOR OTHER MAINTENANCE PURPOSES.

8. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH RS 17-13 AND INSTALLED IN ACCORDANCE WITH RS 17-14. IT SHALL BE PROVIDED IN EVERY DWELLING UNIT WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM.

9. CO DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH BC 908.7

EARTHQUAKE NOTE

THIS BUILDING IS IN COMPLIANCE WITH LL 17-95
THE SEPARATION COMPLY WITH TPPN 2-96 (1" PER 50FT HEIGH)

PROFESSIONAL STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH
THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, USING CHAPTER 4.

HOUSING MAINTENANCE CODE

1. THE OWNER OF THE MULTIPLE DWELLINGS SHALL KEEP THE PREMISES IN GOOD REPAIR.

2. THE OWNER SHALL KEEP THE ROOF, YARDS, COURTS & OTHER OPEN SPACES CLEAN & FREE FROM DIRT, FILTH, GARBAGE OR OTHER OFFENSIVE MATERIALS.

3. PAINTING OF PUBLIC PARTS & WITHIN DWELLINGS TO COMPLY WITH SECTION D26012.01 H.M.C.

4. PAINTING OF WINDOW FRAMES TO COMPLY WITH SECTION D26-12.03 H.M.C.

5. PREMISES TO BE MAINTAINED & KEPT FREE OF RODENT & INSECT INFESTATION AS PER SECTION D26-13.03 & D26 13.05 H.M.C.

6. RECEPTACLES FOR COLLECTION OF WASTE MATTER TO BE PROVIDED AS PER SECTION D26-13.03 & D26-14.05 H.M.C.

7. PROVIDE & MAINTAIN A SUPPLY OF PURE & WHOLESOME WATER SUFFICIENT IN QUANTITY & AT SUFFICIENT PRESSURE TO KEEP ALL PLUMBING FIXTURES ADEQUATELY SUPPLIED FOR THEIR SANIATRY MAINTENANCE.

8. MAINTAIN & KEEP AND/OR REPAIR THE PLUMBING & DRAINAGE SYSTEM INCLUDING WATER CLOSETS, TOILETS, SINKS & OTHER FIXTURES.

9. THE DRAINAGE OF ROOFS, COURTS & YARDS SHALL COMPLY WITH D26-16.03 H.M.C.

10. HEAT & HOT WATER REQUIREMENTS AS PER ARTCILE 17 OF H.M.C CENTRAL HEATING SYSTEM AS PER BUILDING CODES; MINIMUM TEMPERATURES TO BE MAINTAINED AS PER SECTION D26-17.03. CENTRAL HEATING SYSTEM TO BE INSPECTED YEARLY BY QUALIFIED PERSON IN ACCORDANCE WITH SECTION D26-17.05 OF H.M.C. SUPPLY OF HOT WATER AS PER SECTION D26-17.07.

11. YEARLY INSPECTIONS OF CENTRAL HEATING PLANT BY QUALIFIED PERSON TO BE MADE AS PER SECTION D26-17.05 H.M.C.

12. PROVIDE ELECTRIC LIGHTING EQUIPMENT IN ALL DWELLINGS AS PER SECTION D26-19.01.

13. PROVIDE AND MAINTAIN ELECTRIC LIGHTING FIXTURES IN EVERY PUBLIC HALL, STAIR OR FIRESTAR IN ACCORDANCE WITH SECTION D26-19.03 & 19.05.

14. PROPER ELECTRIC LIGHTS TO BE PROVIDED NEAR ENTRANCE WAYS, YARDS & COURTS AS PER SECTION D26-19.07 H.M.C., ON SEPARATE CIRCUIT OR CONNECTED TO HOUSE LINE SERVICING PUBLIC HALLS, AND IN ACCORDANCE WITH REQUIREMENTS & APPROVAL OF THE DEPARTMENT OF WATER SUPPLY, GAS & ELECTRICITY.

15. BOARD OF STANDARDS & APPEALS APPROVED TYPE PEEPHOLES APPROXIMATELY 5 FEET ABOVE FINISHED FLOOR TO BE PROVIDED IN ENTRANCE DOORS OF DWELLING UNITS AS PER SECTION D26.01 H.M.C. & DEPARTMENT RULES & REGULATIONS.

16. ENTRANCE DOORS SHALL BE PROVIDED WITH HEAVY DUTY LATCH SET & A HEAVY DUTY DEAD BOLT OPERABLE WITH A KEY FROM THE OUTSIDE & A THUMB-TURN FROM THE INSIDE. EQUIPMENT DOORS WITH A CHAIN DOOR GUARD SO AS TO PERMIT PARTIAL OPENING.

17. PROPERLY MOUNTED & SECURED POLISHED METAL VIEWING MIRRORS TO BE PROVIDED WITHIN SELF-SERVICE ELEVATORS AS PER SECTION D26-20.03 H.M.C. & DEPARTMENT RULES & REGULATIONS.

18. KEY LOCK IN THE ENTRANCE DOOR TO EACH DWELLING UNIT WITH AT LEAST ONE KEY TO BE PROVIDED BY OWNER AS PER SECTION D26-20.05 H.M.C.

19. APPROVED TYPE MAIL RECEPTACLED & DIRECTORY OF PERSONS LIVING IN DWELLING TO BE PROVIDED AS PER SECTION D26-21.01 H.M.C. & REGULATIONS OF POST OFFICE DEPARTMENT.

20. PROPER FLOOR SIGNS TO BE PROVIDED IN PUBLIC HALL NEAR STAIRS & ELEVATORS & WITHIN STAIR ENCLOSURE AS PER SECTION D26-21.03 H.M.C. & DEPARTMENT RULES & REGULATIONS.

21. PROPER STREET NUMBERS TO BE PROVIDED IN PUBLIC HALL OF THE DWELLING AS PER SECTION 82 (3)-1.0 ADMINISTRATIVE CODE, SECTION D26-21.03 H.M.C. AND RULES & REGULATIONS OF BOROUGH PRESIDENT.

22. A RESIDNET MANAGER RESPONSIBLE FOR OPERATION & MAINTENANCE OF ROOMING UNITS TO BE PROVIDED AS PER SECTION D26-21.09 H.M.C.

23. PROPER JANITORIAL SERVICES TO BE PROVIDED AS PER SECTION D26-22.05 H.M.C.

24. ALL COMBUSTIBLE MATERIALS WITHIN ONE FOOT OF COOKING APPARTUS TO BE PROPERLY FIRE RETARDED & MINIMUM 2-FOOT CLEARANCE MAINTAINED ABOVE EXPOSED COOKING SURFACE. COMBUSTIBLE MATERIAL BETWEEN 2 FEET & 3 FEET ABOVE EXPOSED COOKING SURFACE TO BE FIRE RETARDED. SECTION D26-32.05 H.M.C. & DEPARTMENT RULES & REGULATIONS.

25. NO KITCHEN SHALL BE OCCUPIED FOR SLEEPING PURPOSES. SECTION D26-33.05 H.M.C.

26. MAXIMUM TWO BOARDERS, ROOMERS OR LODGERS PERMITTED TO EACH FAMILY EXCEPT THAT MAXIMUM ONE BOARDER, ROOMER OF LODGER PERMITTED IF LOCATED IN ZONING TO ONE & TWO FAMILY DWELLING.

27. REGISTRATION STATEMENT TO BE FILED AS PER SECTION D26-41.01 /7 D2641.03 H.M.C.

28. REGISTRATION IDENTIFICATION SIGN CONTRACT AND DWELLING SERIAL NUMBER TO BE POSTED AS PER SECTION D26-41.15 H.M.C.

29. IDENTIFICATION OF MANAGING AGENT OR OWNER TO BE INDICTAED ON TENANT'S RENT RECEIPT AS PER SECTION D26-41.17 H.M.C.

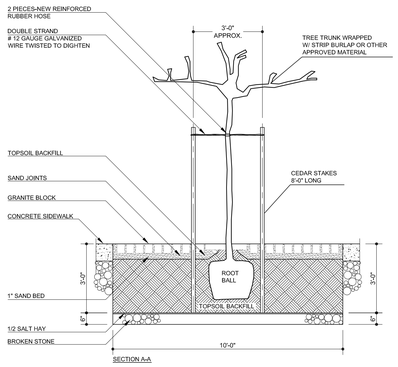
CODE ANALYSIS AS PER NYC 2008 BUILDING CODE

N

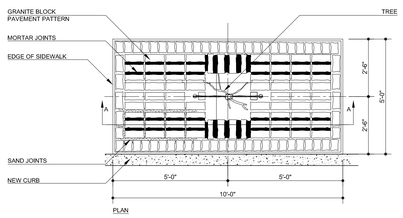
TABLE 508.3.3
REQUIRED SEPARATION OF OCCUPANCIES (HOURS)

USE	A-1	A-2	A-3	A-4	A-5	B	E	F-1	F-2	H-1	H-2	H-3	H-4	H-5	I-1	I-2	I-3	I-4	M	R-1	R-2	R-3	S-1	S-2	U
A-1	-	2	2	2	2	2	2	3	2	NP	4	3	2	4	2	2	2	2	2	2	2	2	3	2	1
A-2	-	-	2	2	2	2	2	3	2	NP	4	3	2	4	2	2	2	2	2	2	2	2	3	2	1
A-3	-	-	-	2	2	2	2	3	2	NP	4	3	2	4	2	2	2	2	2	2	2	2	3	2

TREE PLANTING DETAIL



SECTION A-A

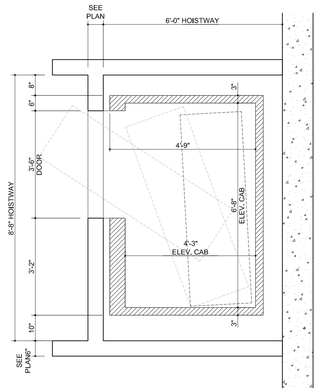


PLAN

TREE PLANTING, STAKING & TREE PIT PAVEMENT DETAILS FOR SIDEWALK AREAS
NTS

1. ALL MATERIALS & CONST. METHODS USED ARE TO CONFORM TO SECTION OF A 16 OF THE BUREAU OF HIGHWAY OPERATIONS SPECS. LATEST EDITION.
2. PRIOR TO THE START OF WORK, THE CONST. SHALL OBTAIN THE NECESSARY PERMIT FRON THE DEPT. OF PARKS & RECREATION FOR THE REMOVAL & PLANTING OF TREES.
3. TREE PITS SHOULD BE LOCATED TWO (2) FEET MIN. FROM GAS, OIL OR WATER BOXES.
4. TREE STAKES ARE TO BE REMOVED BY THE TREE SUBCONT. NOT LESS THEN ONE YEAR AFTER PLANTING OF SAND TREES & PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.
5. USE OF SIDEWALK PAVEMENT MATERIALS OTHER THEN GRANITE BLOCK MUST BE SPECIFICALLY APP. IN WRITING, BY THE BUREAU OF HIGHWAY OPERATIONS.
6. GRANITE BLOCK IN TREE PIT SHALL BE PAID FOR UNDER ITEM NO. 6.06.

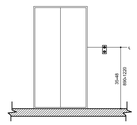
HANDICAP ELEVATOR DETAILS



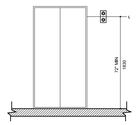
NOTES:

1. ELEVATOR CONSTRUCTION, DIMENSIONS AND CONTROL MECHANISM SHALL COMPLY WITH SECTION 407 OF THE ICC A117.1-2008 AND ASME A17.1.
2. ELEVATOR OPERATION SHALL BE AUTOMATIC.
3. IN ALL BUILDINGS 5 STORIES HIGH OR MORE, ELEVATOR CAB SIZE TO COMPLY WITH A STRETCHER-SIZED ELEVATOR CAB DIMENSIONS AS PER SECTION BC 3002.4. SUCH ELEVATOR SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES/STAR OF LIFE.
4. ELEVATOR EMERGENCY OPERATIONS TO COMPLY WITH SECTION BC 3003.

ELEVATOR CAB DIMENSIONS
SCALE: 1/2" = 1'-0"



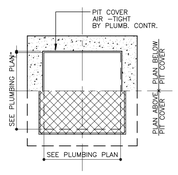
ELEVATOR CALL BUTTONS



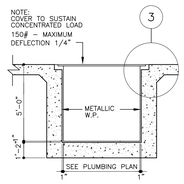
ELEVATOR CALL BUTTONS

SIZE OF ELEVATOR VISIBLE SIGNALS

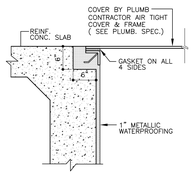
ELEVATOR PIT DETAILS



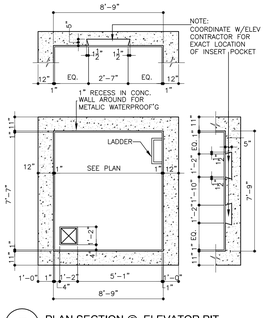
1 SEWAGE EJECTOR PIT
SCALE 1/4" = 1'-0"



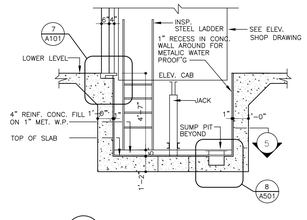
2 SECTION THRU EJECTOR PIT
SCALE 1/4" = 1'-0"



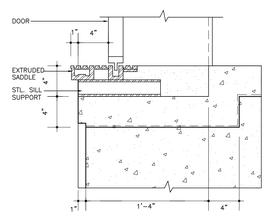
3 ENLARGED DETAIL
SCALE 3/4" = 1'-0"



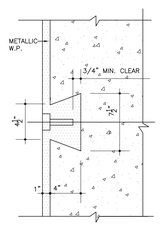
5 PLAN SECTION @ ELEVATOR PIT
SCALE 1/4" = 1'-0"



6 SECTION THRU ELEVATOR PIT
SCALE 1/4" = 1'-0"

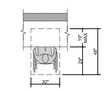


7 ELEVATOR SADDLE DETAIL
SCALE 1 1/2" = 1'-0"



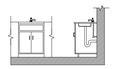
8 INSERT POCKET DET.
SCALE 1 1/2" = 1'-0"

HANDICAP DETAILS FOR APARTMENTS



CLEAR FLOOR SPACE UNDER WORK SURFACE

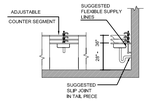
BOTTOM-HINGED DOOR



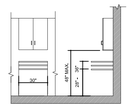
BEFORE REMOVAL OF CABINETS AND BASE

BEFORE REMOVAL OF CABINETS AND BASE

SIDE-HINGED DOOR



CABINETS AND BASE REMOVED AND HEIGHT ALT.

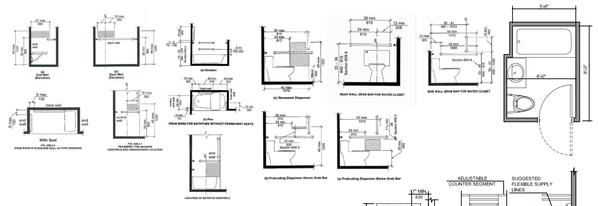


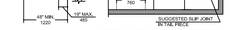
CABINETS AND BASE REMOVED AND HEIGHT ALT.

SYMBOL KEY

1. COUNTERTOP OR WALL-MOUNTED OVEN
2. PULL-OUT BOARD PREFERRED WITH SIDE-OPENING DOOR
3. CLEAR OPEN SPACE
4. BOTTOM-HINGED DOOR
5. RANGE OVEN

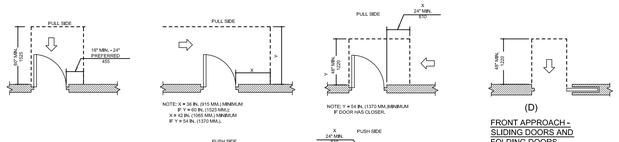
HANDICAP DETAILS FOR APARTMENTS (BATHROOM) ICC A117.1-2009



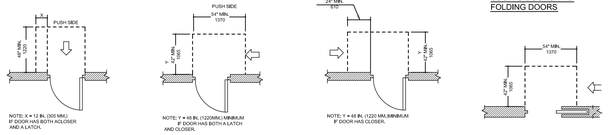


HANDICAP COUNTER DETAILS

MANEUVERING CLEARANCE AT DOORS & RAMP



(D)
FRONT APPROACH - SLIDING DOORS AND FOLDING DOORS



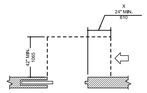
(A)
FRONT APPROACHES-SWINGING DOORS

(B)
HINGE SIDE APPROACHES-SWINGING DOORS

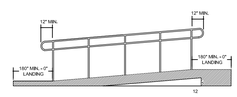
(C)
LATCH SIDE APPROACHES - SWINGING DOORS

(E)
SLIDE SIDE APPROACH - SLIDING DOORS AND FOLDING DOORS

NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.



(F)
LATCH SIDE APPROACH - SLIDING DOORS AND FOLDING DOORS

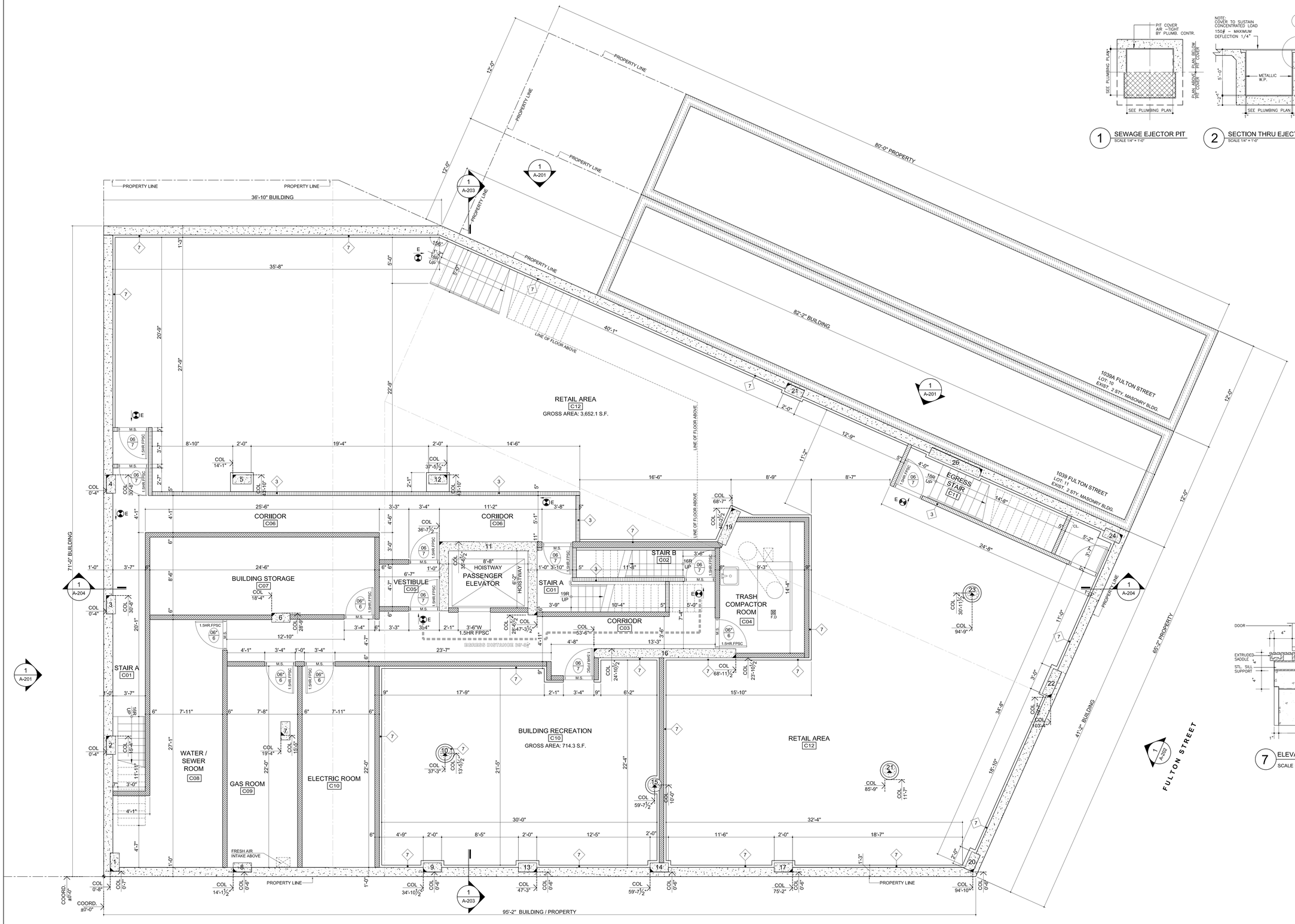


H/C RAMP DETAIL - ELEVATION

THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12, THE MAXIMUM RISE FOR ANY RAMP RUN SHALL BE 30 IN.

H/C RAMP DETAIL - SECTION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@lev-levengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York,NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CODE ANALISYS & H/C MANUVERING CLEARANCES SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. 3. 4. 5.		A003.00

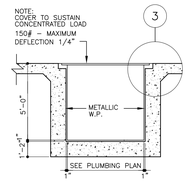


CELLAR FLOOR PLAN

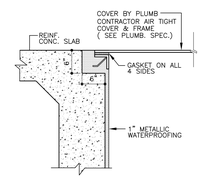
SCALE: 1/4" = 1'-0"
GROSS AREA: 6,320.4 S.F.
T.O.C. EL. [+ 56.54'] = -10'-0"

U.O.N. 0'-0" EQUAL 66.54' AS INDICATED ON ARCHITECTURAL SURVEY DATED 12-10-2012

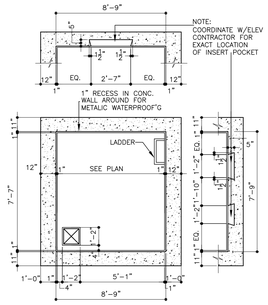
1 SEWAGE EJECTOR PIT
SCALE 1/4" = 1'-0"



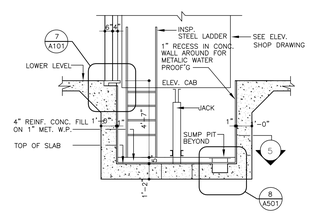
2 SECTION THRU EJECTOR PIT
SCALE 1/4" = 1'-0"



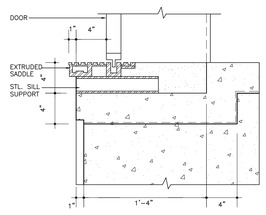
3 ENLARGED DETAIL
SCALE 3/4" = 1'-0"



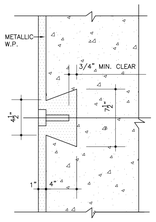
5 PLAN SECTION @ ELEVATOR PIT
SCALE 1/4" = 1'-0"



6 SECTION THRU ELEVATOR PIT
SCALE 1/4" = 1'-0"

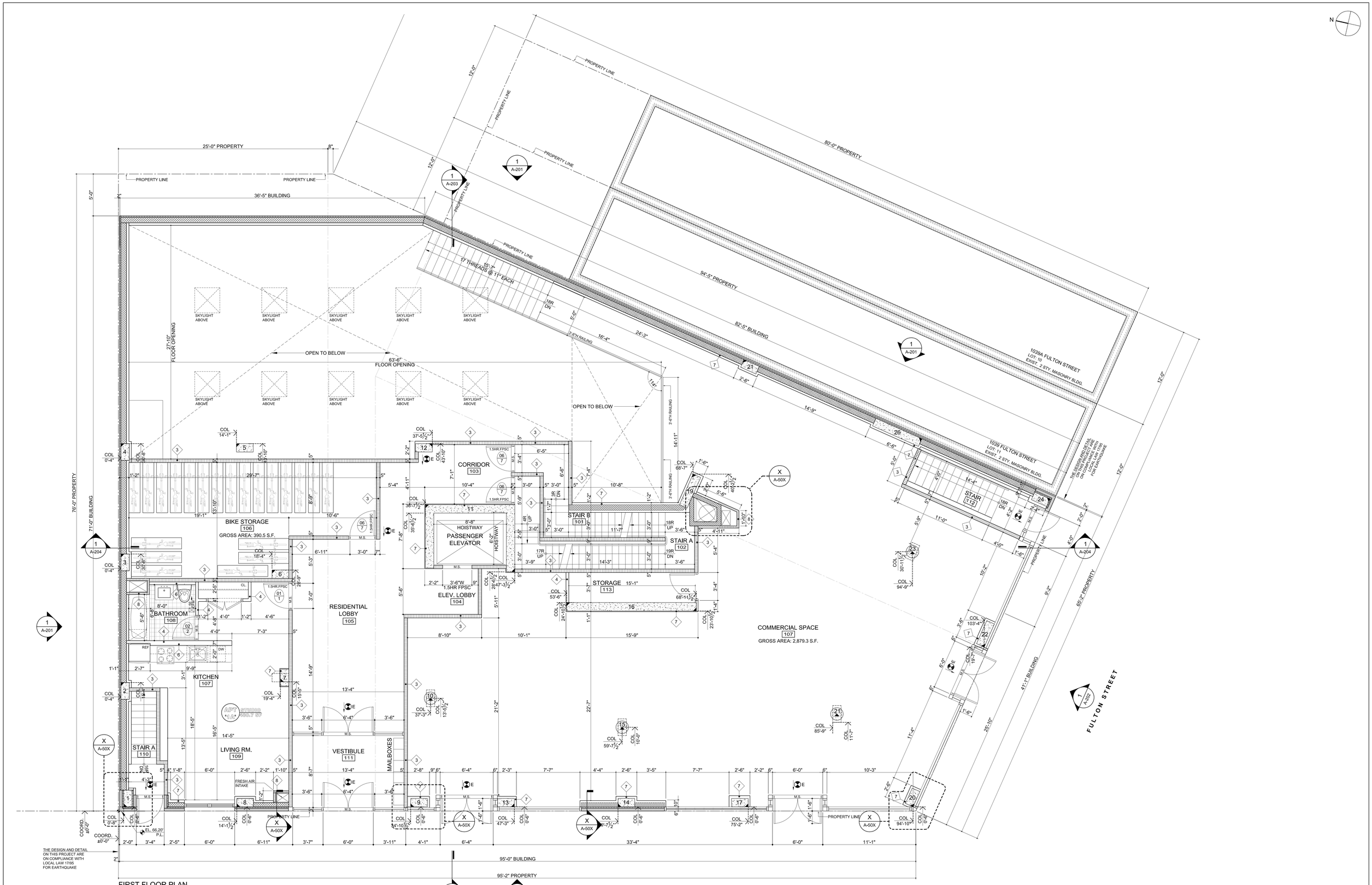


7 ELEVATOR SADDLE DETAIL
SCALE 1½" = 1'-0"



8 INSERT POCKET DET.
SCALE 1½" = 1'-0"

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 232-0296 F: (718) 332-0274 E: bilevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacsteam.com issacsteam.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CELLAR PLAN SCALE: AS SHOWN	1. ISSUED - 04-26-2013 2. 3. 4.		A-101.00



FIRST FLOOR PLAN

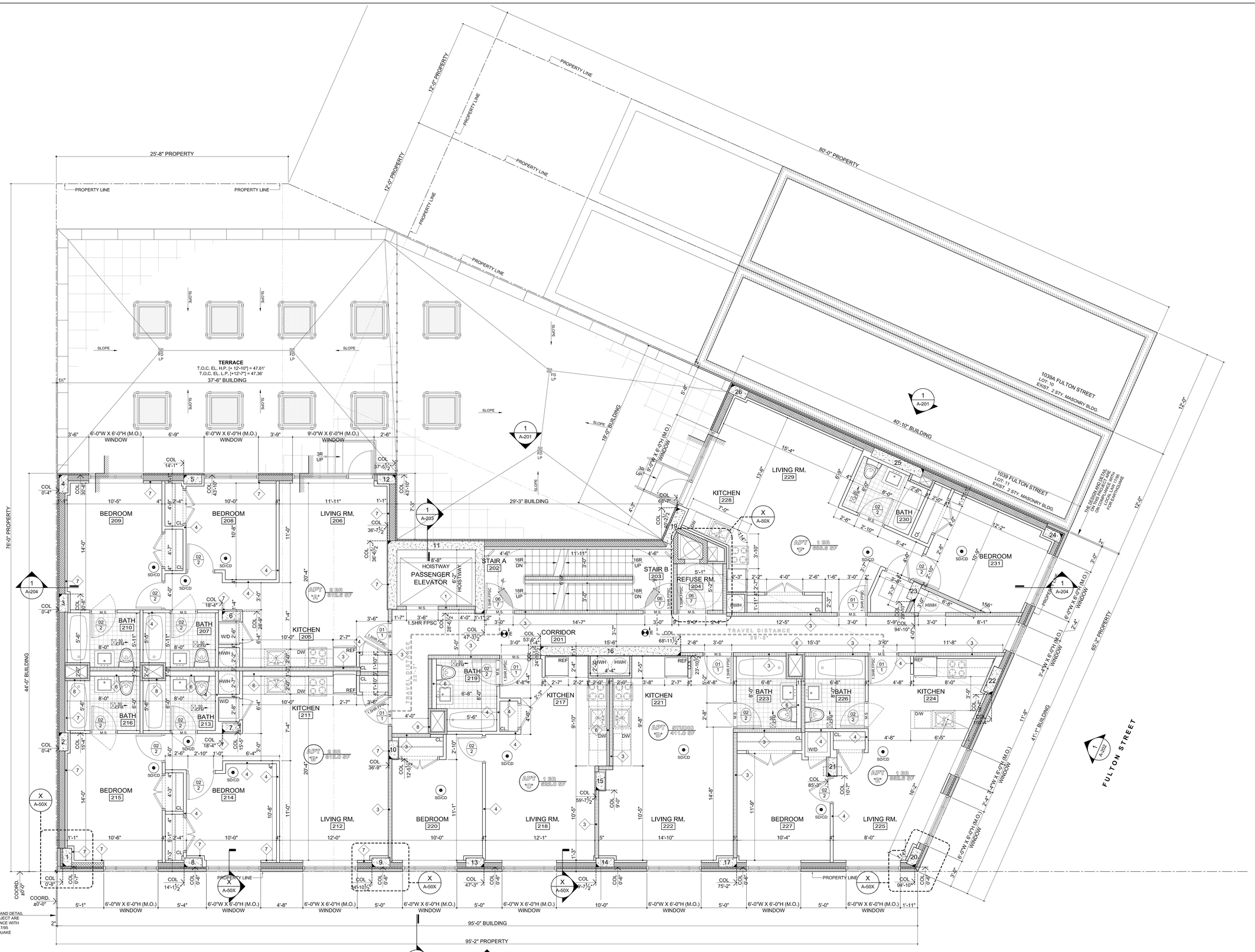
SCALE: 1/4" = 1'-0"

GROSS AREA: 6,320.4 S.F.

T.O.C. EL. [+ 66.54'] = 0'-0"

U.O.N. 0'-0" EQUAL 66.54' AS INDICATED ON ARCHITECTURAL SURVEY DATED 12-10-2012

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FIRST FLOOR PLAN SCALE: AS SHOWN	1. ISSUED - 07-20-2012 2. 3. 4. 5.		A-102.00

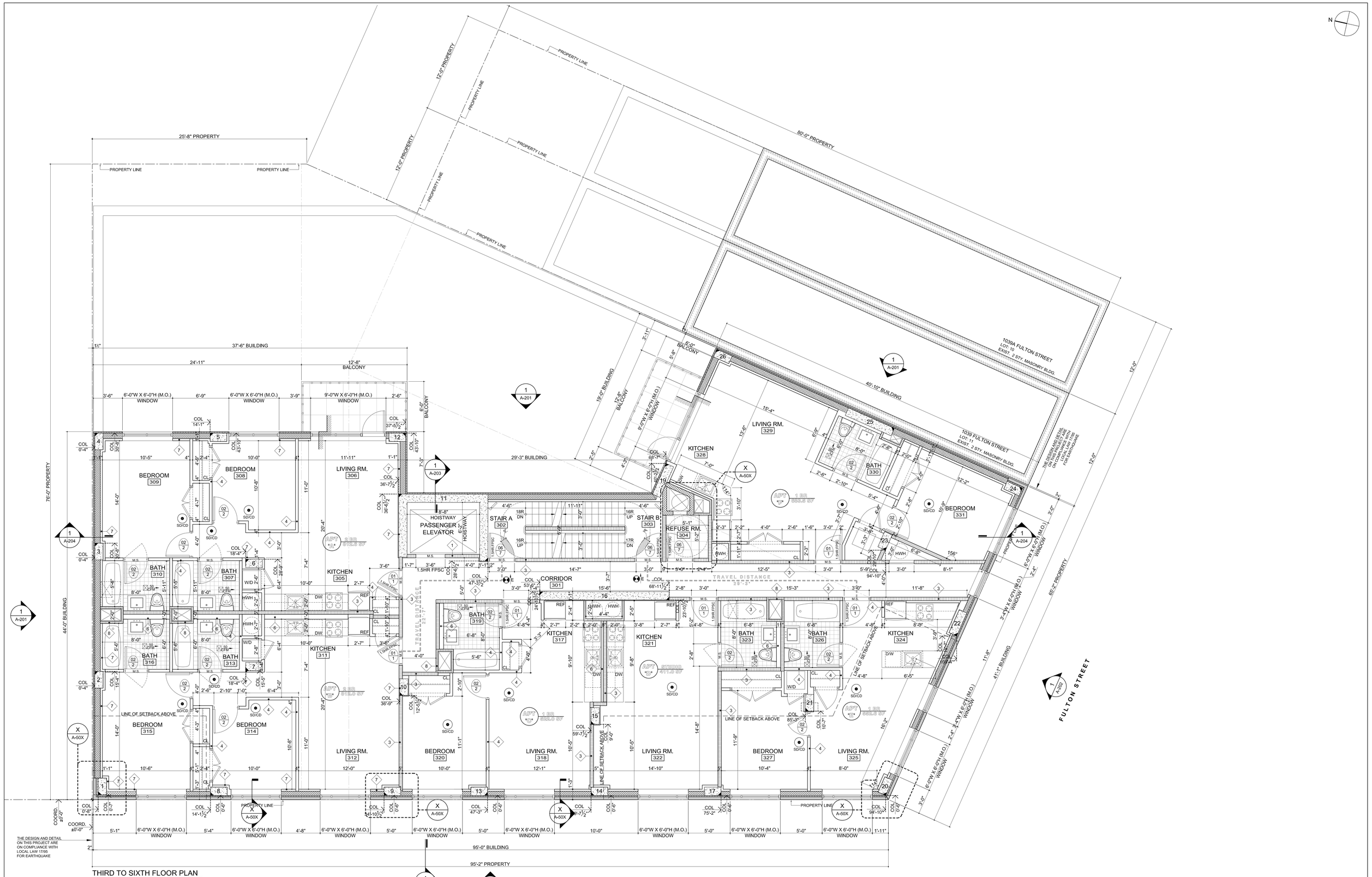


SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"
GROSS AREA: 6,320.4 S.F.
T.O.C. EL. [+ 79.54'] = 13'-0"

U.O.N. 0'-0" EQUAL 66.54' AS INDICATED ON ARCHITECTURAL SURVEY DATED 12-10-2012

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECOND TO SIXTH FLOOR PLANS SCALE: AS SHOWN	1. ISSUED - 08-30-2012 2. 3. 4.		A-103.00

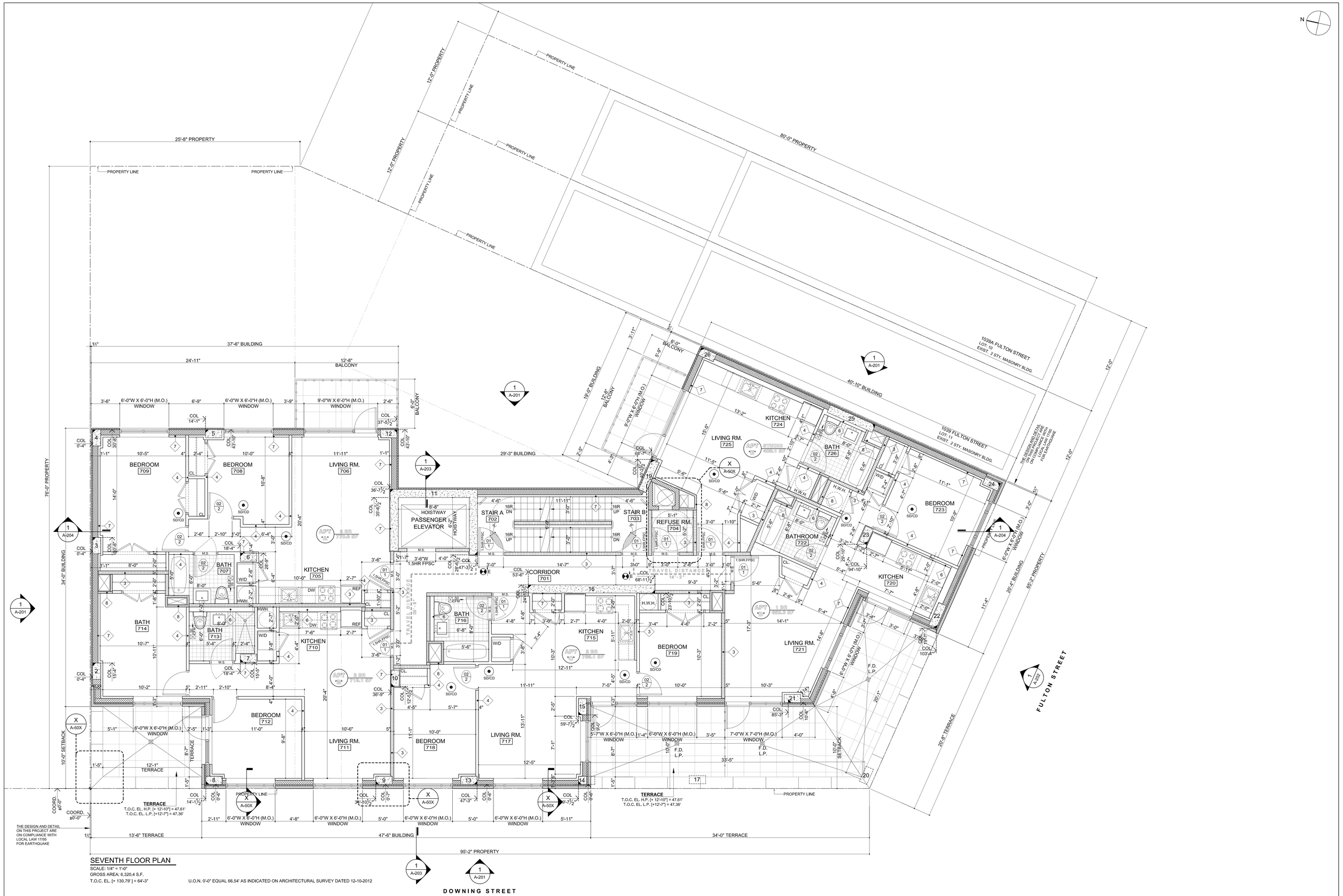


THIRD TO SIXTH FLOOR PLAN

SCALE: 1/4" = 1'-0"
GROSS AREA: 6,320.4 S.F.
3RD FLOOR T.O.C. EL. [+ 89.79'] = 23'-3"
4TH FLOOR T.O.C. EL. [+ 100.04'] = 33'-6"
5TH FLOOR T.O.C. EL. [+ 110.29'] = 43'-9"
6TH FLOOR T.O.C. EL. [+ 120.54'] = 54'-0"

U.O.N. 0'-0" EQUAL 66.54' AS INDICATED ON ARCHITECTURAL SURVEY DATED 12-10-2012

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11230 P: (718) 332-2066 F: (718) 332-2274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-0600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	TYPICAL THIRD TO SIXTH FLOOR PLAN SCALE: AS SHOWN	1. ISSUED - 08-28-2012 2. 3. 4.		A-104.00

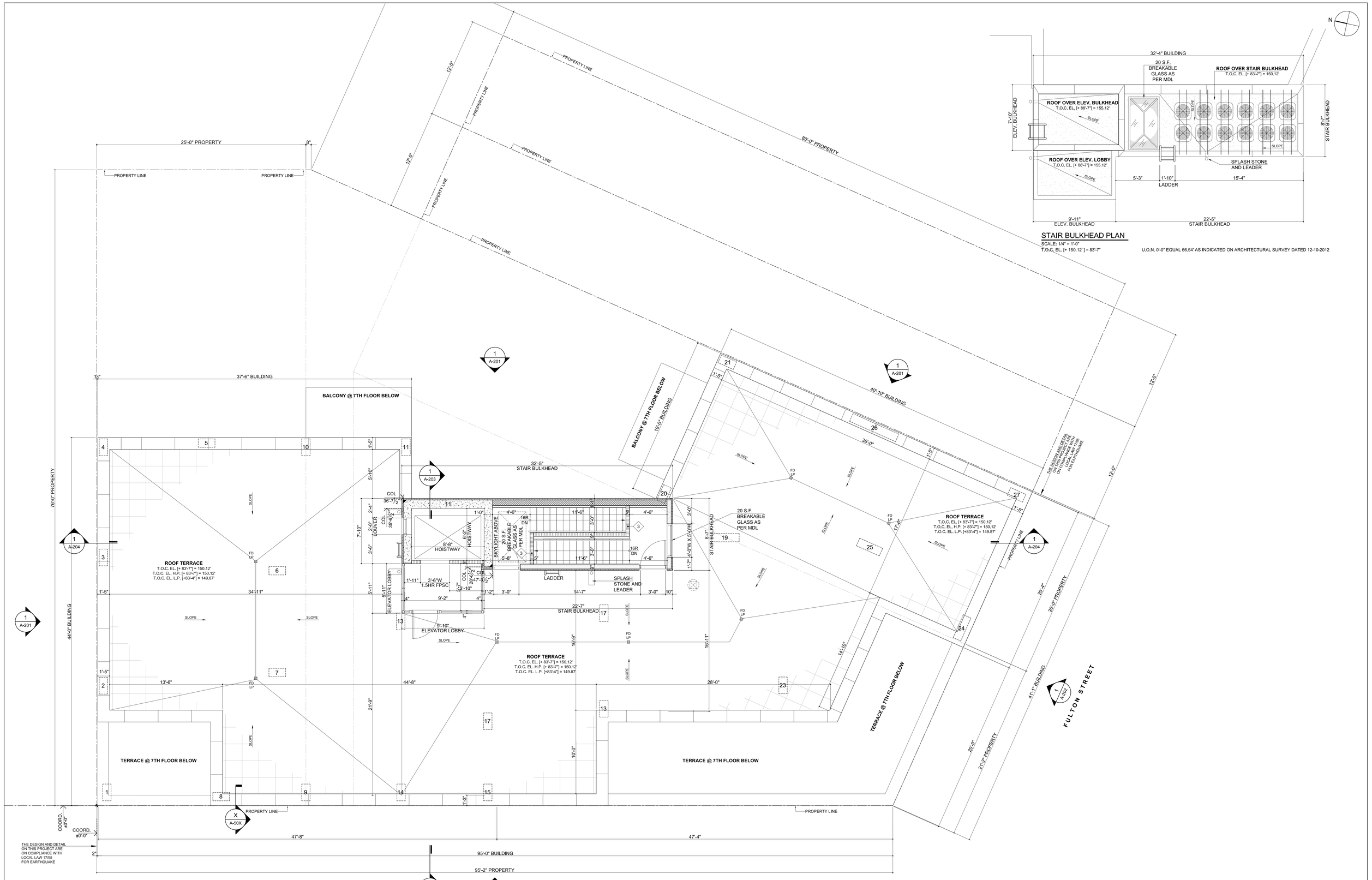


SEVENTH FLOOR PLAN

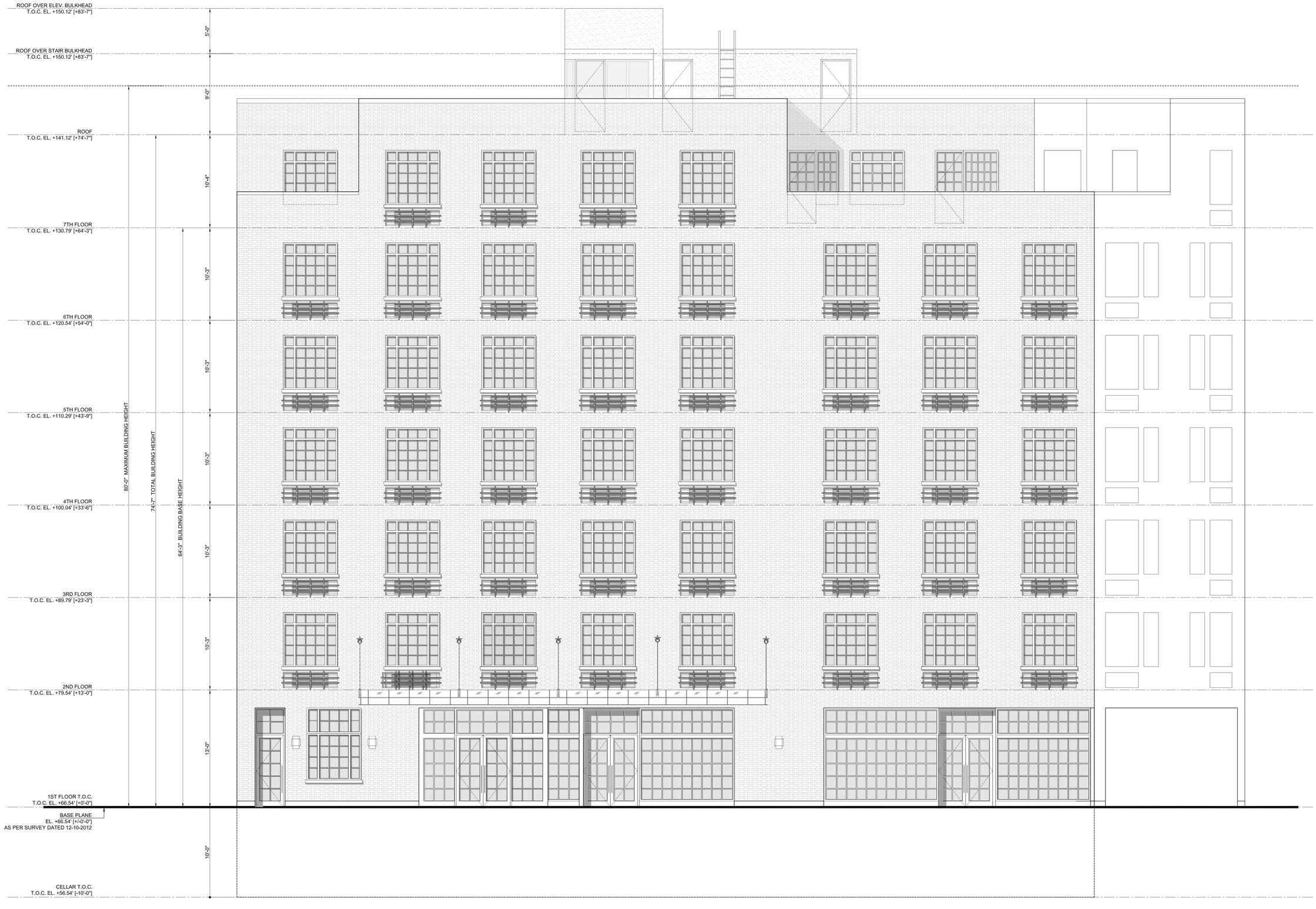
SCALE: 1/4" = 1'-0"
GROSS AREA: 6,320.4 S.F.
T.O.C. EL. [+ 130.79'] = 64'-3"

U.O.N. 0'-0" EQUAL 66.54' AS INDICATED ON ARCHITECTURAL SURVEY DATED 12-10-2012

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 26 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2066 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com Issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SEVENTH FLOOR PLAN SCALE: AS SHOWN	1. ISSUED - 08-28-2012 2. 3. 4.		A-105.00

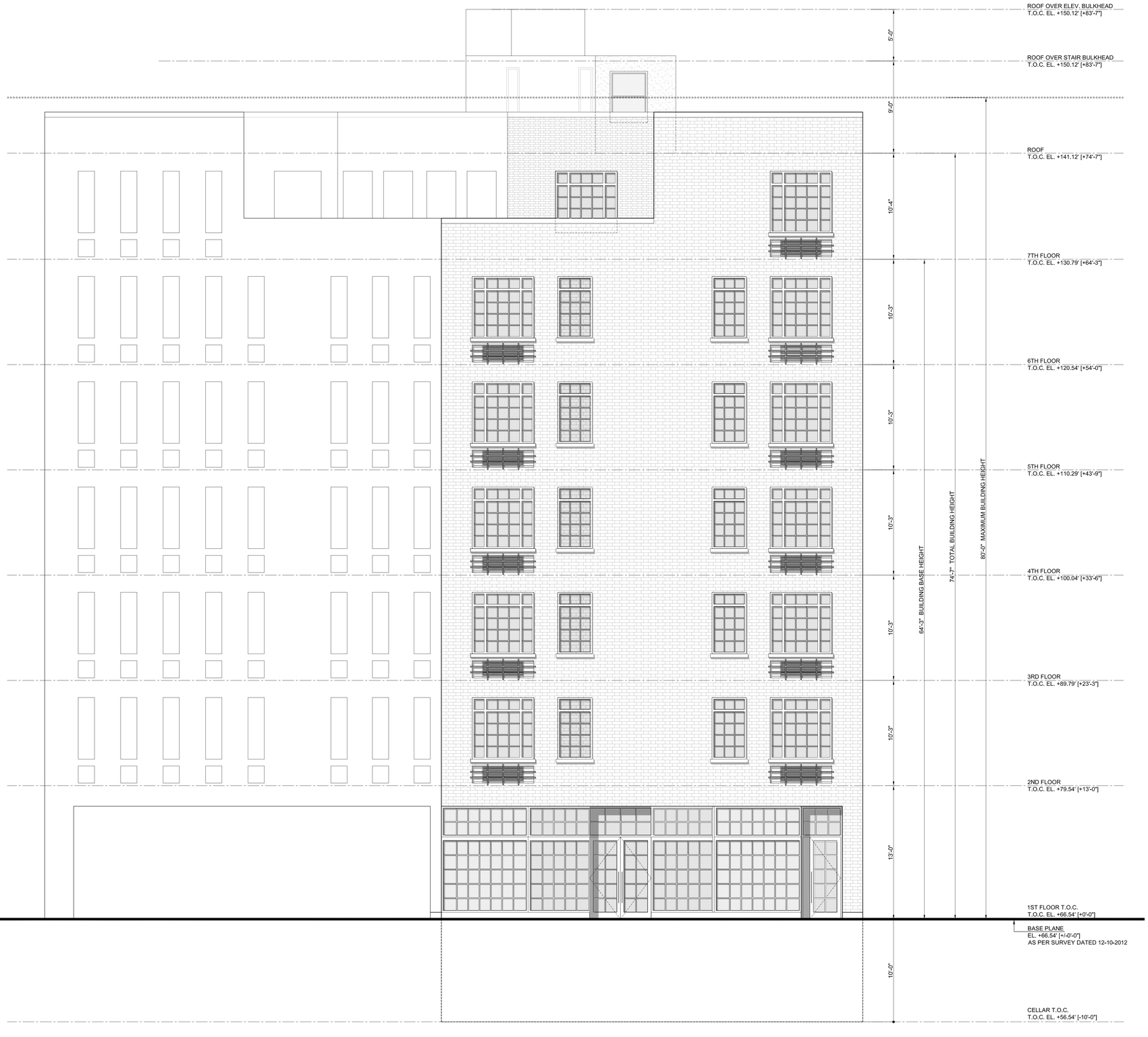


OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ROOF AND BULKHEAD PLAN SCALE: AS SHOWN	1. ISSUED - 08-30-2012 2. 3. 4.		A-106.00



DOWNING STREET BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St. 9th Floor New York NY 10001 212-206-5900 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FRONT ELEVATION SCALE: AS SHOWN	1. ISSUED 04-26-2013 2. 3. 4.		A-201.00



FULTON STREET BUILDING ELEVATION

SCALE: 1/4" = 1'-0"

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-6600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FRONT ELEVATION SCALE: AS SHOWN	1. ISSUED 04-25-2013 2. 3. 4.		A-202.00

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REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-2274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	REAR ELEVATION SCALE: AS SHOWN	1. ISSUED: 04-28-2013 2. 3. 4.		A-203.00

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LONGITUDINAL BUILDING SECTION

SCALE: 1/4" = 1'-0"

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-6500 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. 3. 4.		A-204.00

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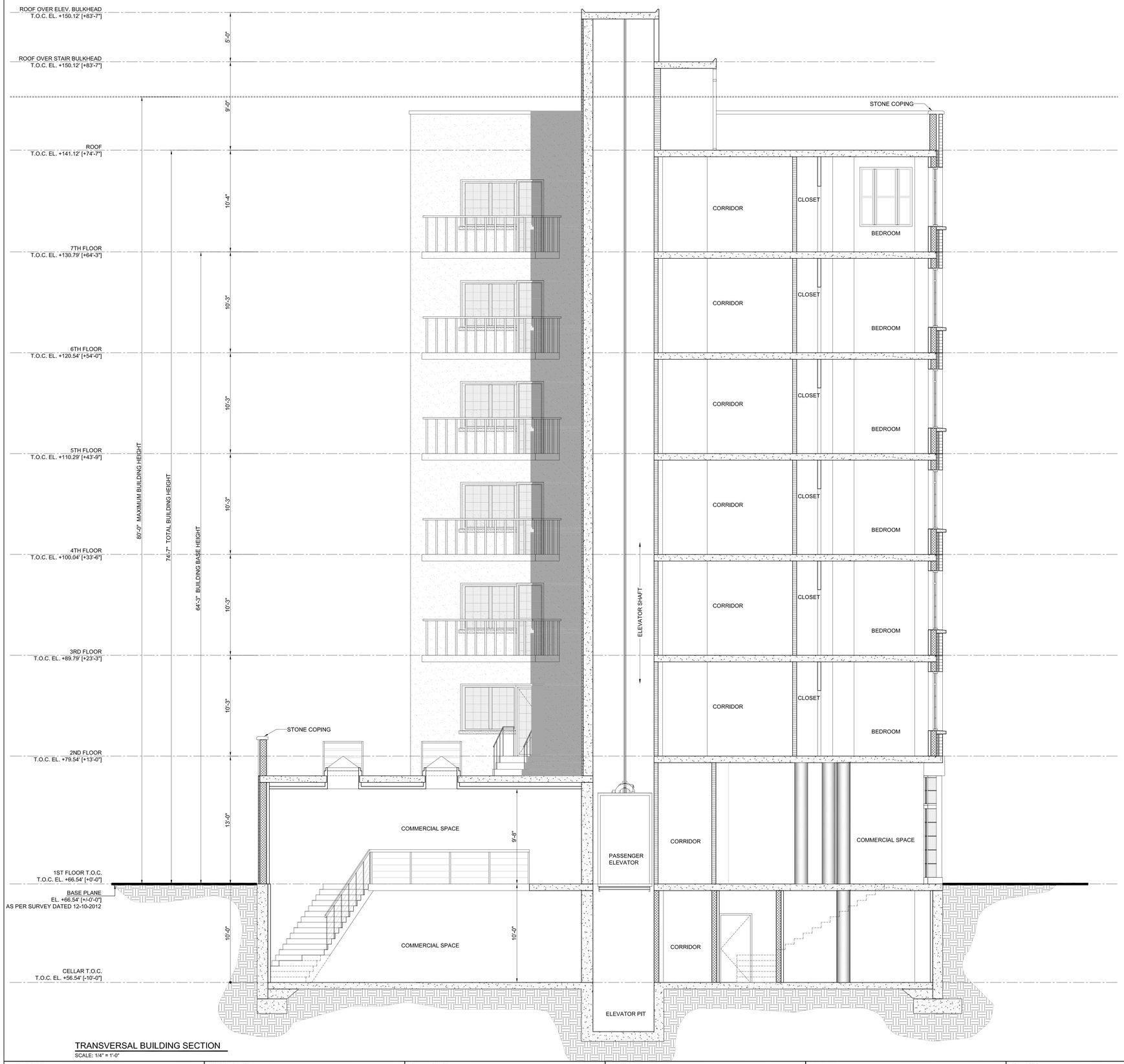

TRANSVERSAL BUILDING SECTION

SCALE: 1/4" = 1'-0"

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com Isaacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 04-26-2013 2. 3. 4.		A-205.00

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ATTACHMENT B
CITIZEN PARTICIPATION PLAN

ATTACHMENT B
CITIZEN PARTICIPATION PLAN

The NYC Office of Environmental Remediation and Fulton Hill Corner LLC have established this Citizen Participation Plan because the opportunity for citizen participation is an important component of the NYC Voluntary Cleanup Program. This Citizen Participation Plan describes how information about the project will be disseminated to the Community during the remedial process. As part of its obligations under the NYC VCP, Fulton Hill Corner LLC will maintain a repository for project documents and provide public notice at specified times throughout the remedial program. This Plan also takes into account potential environmental justice concerns in the community that surrounds the project Site. Under this Citizen Participation Plan, project documents and work plans are made available to the public in a timely manner. Public comment on work plans is strongly encouraged during public comment periods. Work plans are not approved by the NYC Office of Environmental Remediation (OER) until public comment periods have expired and all comments are formally reviewed. An explanation of cleanup plans in the form of a public meeting or informational session is available upon request to OER's project manager assigned to this Site, Hannah Moore, who can be contacted about these issues or any others questions, comments or concerns that arise during the remedial process at (212) 788-8841

Project Contact List. OER has established a Site Contact List for this project to provide public notices in the form of fact sheets to interested members of the Community. Communications will include updates on important information relating to the progress of the cleanup program at the Site as well as to request public comments on the cleanup plan. The Project Contact List includes owners and occupants of adjacent buildings and homes, principal administrators of nearby schools, hospitals and day care centers, the public water supplier that serves the area, established document repositories, the representative Community Board, City Council members, other elected representatives and any local Brownfield Opportunity Area (BOA) grantee organizations. Any member of the public or organization will be added to the Site Contact List on request. A copy of the Site Contact List is maintained by OER's project manager. If you would like to be added to the Project Contact List, contact NYC OER at (212) 788-8841 or by email at

brownfields@cityhall.nyc.gov.

Repositories. A document repository is maintained in the nearest public library that maintains evening and weekend hours. This document repository is intended to house, for community review, all principal documents generated during the cleanup program including Remedial Investigation plans and reports, Remedial Action work plans and reports, and all public notices and fact sheets produced during the lifetime of the remedial project. Fulton Hill Corner LLC will inspect the repositories to ensure that they are fully populated with project information. The repository for this project is:

Repository Name: Bedford Library

Repository Address: 496 Franklin Avenue, Brooklyn NY 11238

Repository Telephone Number: 718-623-0012

Repository Hours of Operation:

Mon	Closed
Tue	10:00 PM - 6:00 PM
Wed	1:00 AM - 8:00 PM
Thu	10:00 AM - 6:00 PM
Fri	10:00 AM - 6:00 PM
Sat	10:00 AM - 5:00 PM
Sun	closed

Digital Documentation. NYC OER strongly encourages the use of digital documents in repositories as a means of minimizing paper use while also increasing convenience in access and ease of use.

Identify Issues of Public Concern. The major issues of concern to the public will be potential impacts of nuisance odors and dust during the disturbance of historic fill soils at the Site. This work will be performed in accordance with procedures which will be specified under a detailed Remedial Program which considers and takes preventive measures for exposures to future residents of the property and those on adjacent properties during construction. Detailed plans to

monitor the potential for exposure including a Construction Health and Safety Plan and a Community Air Monitoring Plan are required components of the remedial program. Implementation of these plans will be under the direct oversight of the New York City Department of Environmental Remediation (NYCOER).

These plans will specify the following worker and community health and safety activities during remedial activity at the Site:

- On-Site air monitoring for worker protection,
- Perimeter air monitoring for community protection.

The Health and Safety Plan and the Community Air Monitoring Plan prepared as part of the Remedial Action Work Plan will be available for public review at the document repository.

Public Notice and Public Comment. Public notice to all members of the Project Contact List is required at three major steps during the performance of the cleanup program (listed below) and at other points that may be required by OER. Notices will include Fact Sheets with descriptive project summaries, updates on recent and upcoming project activities, repository information, and important phone and email contact information. All notices will be prepared by Fulton Hill Corner LLC, reviewed and approved by OER prior to distribution and mailed by Fulton Hill Corner LLC. Public comment is solicited in public notices for all work plans developed under the NYC Voluntary Cleanup Program. Final review of all work plans by OER will consider all public comments. Approval will not be granted until the public comment period has been completed.

Citizen Participation Milestones. Public notice and public comment activities occur at several steps during a typical NYC VCP project. See flow chart on the following page, which identifies when during the NYC VCP public notices are issued: These steps include:

- **Public Notice of the availability of the Remedial Investigation Report and Remedial Action Work Plan and a 30-day public comment period on the Remedial Action Work Plan.**

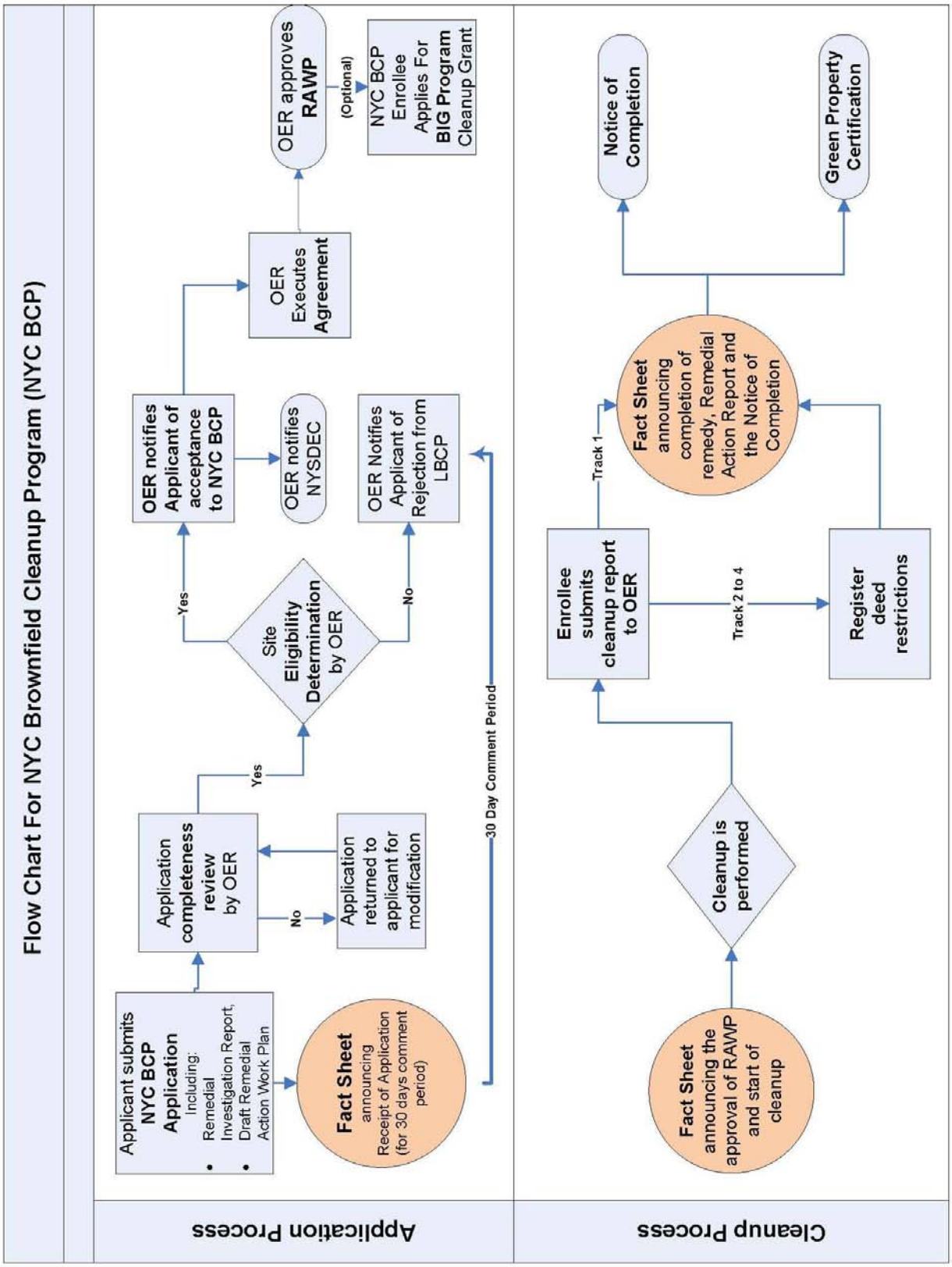
  Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact

List announcing the availability of the Remedial Investigation Report and Remedial Action Work Plan and the initiation of a 30-day public comment period on the Remedial Action Work Plan. The Fact Sheet summarizes the findings of the RIR and provides details of the RAWP. The public comment period will be extended an additional 15 days upon public request. A public meeting or informational session will be conducted by OER upon request.

- **Public Notice announcing the approval of the RAWP and the start of remediation**
  Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the approval of the RAWP and the start of remediation.

- **Public Notice announcing the completion of remediation, designation of Institutional and Engineering Controls and issuance of the Notice of Completion**
  Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the completion of remediation, providing a list of all Institutional and Engineering Controls implemented for to the Site and announcing the issuance of the Notice of Completion

1808 MIDDLE COUNTRY ROAD
RIDGE, NY 11961
PH: 631.504.6000
FAX: 631.928.2780



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ATTACHMENT C
SUSTAINABILITY STATEMENT

ATTACHMENT C
SUSTAINABILITY STATEMENT

This Sustainability Statement documents sustainable activities and green remediation efforts planned under this remedial action.

Reuse of Clean, Recyclable Materials. Reuse of clean, locally-derived recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction.

This project intends to use recycled concrete aggregate wherever possible in grading and backfilling the Site. An estimate of the quantity (in tons) of clean, non-virgin materials (reported by type of material) reused under this plan will be quantified and reported in the RAR.

Reduce Consumption of Virgin and Non-Renewable Resources. Reduced consumption of virgin and non-renewable resources lowers the overall environmental impact of the project on the region by conserving these resources.

The project will reduce the consumption of virgin materials by substituting recycled concrete aggregate for mined gravel and/or sand backfill whenever possible. An estimate of the quantity (in tons) of virgin and non-renewable resources, the use of which will be avoided under this plan, will be quantified and reported in the RAR.

Reduced Energy Consumption and Promotion of Greater Energy Efficiency. Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

Recycled concrete materials and other backfill materials will be locally sourced reducing the energy consumption associated with transporting these materials to the Site. Best efforts will be made to quantify energy efficiencies achieved during the remediation and will be reported in the Remedial Action Report (RAR). Where energy savings cannot be easily quantified, a gross indicator of the amount of energy saved or the means by which energy savings was achieved will be reported.

Paperless Voluntary Cleanup Program. Fulton Hill Corner LLC is participating in OER's Paperless Voluntary Cleanup Program. Under this program, submission of electronic documents will replace submission of hard copies for the review of project documents, communications and milestone reports.

Low-Energy Project Management Program. Fulton Hill Corner LLC is participating in OER's low-energy project management program. Under this program, whenever possible, meetings are held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation.

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ATTACHMENT D
SOIL/MATERIALS MANAGEMENT PLAN

ATTACHMENT D
SOIL/MATERIALS MANAGEMENT PLAN

1.1 SOIL SCREENING METHODS

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional and will be reported in the RAR. Soil screening will be performed during invasive work performed during the remedy and development phases prior to issuance of the Notice of Completion.

1.2 STOCKPILE METHODS

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 8-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters and other discharge points.

1.3 CHARACTERIZATION OF EXCAVATED MATERIALS

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Soils proposed for reuse on-Site will be managed as defined in this plan.

1.4 MATERIALS EXCAVATION, LOAD-OUT AND DEPARTURE

The PE/QEP overseeing the remedial action will:

- oversee remedial work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this work plan;
- ensure that Site development activities and development-related grading cuts will not interfere with, or otherwise impair or compromise the remedial activities proposed in this RAWP;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site; and
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site remediation.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

Open and uncontrolled mechanical processing of historical fill and contaminated soil on-Site will not be performed without prior OER approval.

1.5 OFF-SITE MATERIALS TRANSPORT

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance. Off-Site queuing will be minimized.

Outbound truck transport routes are westbound on Fulton Street making a right on Flatbush

Avenue and continuing to Interstate - 278 (Brooklyn Queens Expressway). This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

1.6 MATERIALS DISPOSAL OFF-SITE

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Brooklyn, New York under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the RAR.

The Remedial Action Report will include an itemized account of the destination of all material removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the RAR.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the

receiving facility and in conformance with its applicable permits. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the RAR. A manifest system for off-Site transportation of exported materials will be employed. Manifest information will be reported in the RAR. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), including transport to a Part 360-16 Registration Facility, a formal request will be made for approval by OER with an associated plan compliant with 6NYCRR Part 360-16. This request and plan will include the location, volume and a description of the material to be recycled, including verification that the material is not impacted by site uses and that the material complies with receipt requirements for recycling under 6NYCRR Part 360. This material will be appropriately handled on-Site to prevent mixing with impacted material.

1.7 MATERIALS REUSE ON-SITE

Soil and fill that is derived from the property that meets the soil cleanup objectives established in this plan may be reused on-Site. The soil cleanup objectives for on-Site reuse are listed in Table 1. 'Reuse on-Site' means material that is excavated during the remedy or development, does not leave the property, and is relocated within the same property and on comparable soil/fill material, and addressed pursuant to the NYC VCP agreement subject to Engineering and Institutional Controls. The PE/QEP will ensure that reused materials are segregated from other materials to be exported from the Site and that procedures defined for material reuse in this RAWP are followed.

Organic matter (wood, roots, stumps, etc.) or other waste derived from clearing and grubbing of the Site will not be buried on-Site. Soil or fill excavated from the site for grading or other purposes will not be reused within a cover soil layer or within landscaping berms.

1.8 DEMARCATION

After completion of hotspot removal and any other invasive remedial activities, and prior to backfilling, the top of the residual soil/fill will be defined by one of three methods: (1) placement of a demarcation layer. The demarcation layer will consist of geosynthetic fencing or equivalent

material to be placed on the surface of residual soil/fill to provide an observable reference layer. A description or map of the approximate depth of the demarcation layer will be provided in the SMP; or (2) a land survey of the top elevation of residual soil/fill before the placement of cover soils, pavement and associated sub-soils, or other materials or structures or, (3) all materials beneath the approved cover will be considered impacted and subject to site management after the remedy is complete. Demarcation may be established by one or any combination of these three methods. As appropriate, a map showing the method of demarcation for the Site and all associated documentation will be presented in the RAR.

This demarcation will constitute the top of the site management horizon. Materials within this horizon require adherence to special conditions during future invasive activities as defined in the Site Management Plan.

1.9 IMPORT OF BACKFILL SOIL FROM OFF-SITE SOURCES

This Section presents the requirements for imported fill materials to be used below the cover layer and within the clean soil cover layer. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. The backfill and cover soil quality objectives are listed in Table 1.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this RAWP. The RAR will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

Source Screening and Testing

Inspection of imported fill material will include visual, olfactory and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material will be taken at a minimum frequency of one sample for every 500 cubic yards of material. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

Recycled concrete aggregate (RCA) will be imported from facilities permitted or registered by NYSDEC. Facilities will be identified in the RAR. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for, and will not be used as cover material.

1.10 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by New York City Department of

Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYC DEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by New York State Department of Environmental Conservation.

1.11 STORM-WATER POLLUTION PREVENTION

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. Erosion and sediment control measures identified in this RAWP (silt fences and barriers, and hay bale checks) will be installed around the entire perimeter of the remedial construction area and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

1.12 CONTINGENCY PLAN

This contingency plan is developed for the remedial construction to address the discovery of unknown structures or contaminated media during excavation. Identification of unknown contamination source areas during invasive Site work will be promptly communicated to OER's Project Manager. Petroleum spills will be reported to the NYS DEC Spill Hotline. These findings will be included in the daily report. If previously unidentified contaminant sources are found

during on-Site remedial excavation or development-related excavation, sampling will be performed on contaminated source material and surrounding soils and reported to OER. Chemical analytical testing will be performed for TAL metals, TCL volatiles and semi-volatiles, TCL pesticides and PCBs, as appropriate.

1.13 ODOR, DUST AND NUISANCE CONTROL

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP's certifying the Remedial Action Report.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the

responsibility of the PE/QEP's responsible for certifying the Remedial Action Report.

Other Nuisances

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

Rodent control will be provided, during Site clearing and grubbing, and during the remedial program, as necessary, to prevent nuisances.

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ATTACHMENT E
SITE SPECIFIC CONSTRUCTION HEALTH AND SAFETY PLAN

1035 FULTON STREET

BROOKLYN, NEW YORK

Block 1992, Lots 12, 13, 15 and 16

CONSTRUCTION
HEALTH AND SAFETY PLAN

JUNE 2013

Prepared By:

EBC
ENVIRONMENTAL BUSINESS
1808 Middle Country Road
Ridge, NY 11961

HEALTH AND SAFETY PLAN

Site:	**Redevelopment Project**
Location:	**1035 Fulton Street, Brooklyn, NY**
Prepared By:	**ENVIRONMENTAL BUSINESS CONSULTANTS**
Date Prepared:	**June- 2013**
Version:	**1**
Revision:	**0**
Project Description:	
Waste types:	Solid
Characteristics:	Semi-Volatile Organic Compounds, Pesticides and metals in historic fill (From grade to depths as great as 5 feet)
Overall Hazard:	Low

ENVIRONMENTAL BUSINESS CONSULTANTS (EBC) AND EBC'S SUBCONTRACTORS DO NOT GUARANTEE THE HEALTH OR SAFETY OF ANY PERSON ENTERING THIS SITE. DUE TO THE NATURE OF THIS SITE AND THE ACTIVITY OCCURRING THEREON, IT IS NOT POSSIBLE TO DISCOVER, EVALUATE, AND PROVIDE PROTECTION FOR ALL POSSIBLE HAZARDS WHICH MAY BE ENCOUNTERED. STRICT ADHERENCE TO THE HEALTH AND SAFETY GUIDELINES SET FORTH HEREIN WILL REDUCE, BUT NOT ELIMINATE, THE POTENTIAL FOR INJURY AT THIS SITE. THE HEALTH AND SAFETY GUIDELINES IN THIS PLAN WERE PREPARED SPECIFICALLY FOR THIS SITE AND SHOULD NOT BE USED ON ANY OTHER SITE WITHOUT PRIOR RESEARCH AND EVALUATION.

CONSTRUCTION HEALTH AND SAFETY PLAN
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STATEMENT OF COMMITMENT

This Construction Health and Safety Plan (CHASP) has been prepared to ensure that workers are not exposed to risks from hazardous materials during the Remedial Activities planned for 1035 Fulton Street, Brooklyn, New York.

This CHASP, which applies to persons present at the site actually or potentially exposed to hazardous materials, describes emergency response procedures for actual and potential chemical hazards. This CHASP is also intended to inform and guide personnel entering the work area or exclusion zone. Persons are to acknowledge that they understand the potential hazards and the contents of this Health and Safety policy by signing off on receipt of their individual copy of the document. The General Contractor and their subcontractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees. The General contractor has the option of adopting this CHASP or providing its own for the planned scope of work under the Remedial Action Plan.

1.0 INTRODUCTION

This document describes the health and safety guidelines developed by Environmental Business Consultants (EBC) for implementation of a Remedial Action Plan at Redevelopment Project located at 1035 Fulton Street and exposure to hazardous materials or wastes during the removal of underground storage tanks and the excavation and loading of contaminated soil. In accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120 Hazardous Waste Operations and Emergency Response Final rule, this CHASP, including the attachments, addresses safety and health hazards related to subsurface sample collection activities and is based on the best information available. The CHASP may be revised by EBC at the request of the Owner or the New York City Office of Environmental Remediation (NYCOER) upon receipt of new information regarding site conditions. Changes will be documented by written amendments signed by EBC's Project Manager, site safety officer and/or the EBC Health and Safety Consultant.

1.1 Scope

This CHASP addresses the potential hazards related to the site Remedial Action Plan (RAP). The RAP activities are as described below:

1) Site mobilization of General Contractor (GC) and Subcontractors to install the buildings' foundations.
    a) Excavate historic fill to a depth of approximately 5 feet for the entire lot for construction of a cellar level for the new building.

1.2 Application

The CHASP applies to all personnel involved in the above tasks who wish to gain access to active work areas, including but not limited to:

- General Contractor
- EBC employees and subcontractors;
- Client representatives; and
- Federal, state or local representatives.

1.3 Site Safety Plan Acceptance, Acknowledgment and Amendments

The project superintendent and the site safety officer are responsible for informing personnel (EBC employees and/or owner or owners representatives) entering the work area of the contents of this plan and ensuring that each person signs the safety plan acknowledging the on-site hazards and procedures required to minimize exposure to adverse effects of these hazards. A copy of the Acknowledgement Form is included in **Appendix A**.

Site conditions may warrant an amendment to the CHASP. Amendments to the CHASP are acknowledged by completing forms included in **Appendix B**.

1.4 Key Personnel - Roles and Responsibilities

Personnel responsible for implementing this Construction Health and Safety Plan are:

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Name	Title	Address	Contact Numbers
Ms. Kristen DiScenza	EBC Project Manager	1808 Middle Country Road Ridge, NY 11961	(631) 504-6000 Cell (516) 652-8338
Mr. Kevin Waters	EBC Site Safety Officer	1808 Middle Country Road Ridge, NY 11961	(631) 504-6000

The project manager is responsible for overall project administration and, with guidance from the site safety officer, for supervising the implementation of this CHASP. The site safety officer will conduct daily (tail gate or tool box) safety meetings at the project site and oversee daily safety issues. Each subcontractor and supplier (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute about health and safety or project activities, on-site personnel will attempt to resolve the issue. If the issue cannot be resolved at the site, then the project manager will be consulted.

The site safety officer is also responsible for coordinating health and safety activities related to hazardous material exposure on-site. The site safety officer is responsible for the following:

1. Educating personnel about information in this CHASP and other safety requirements to be observed during site operations, including, but not limited to, decontamination procedures, designation of work zones and levels of protection, air monitoring, fit testing, and emergency procedures dealing with fire and first aid.

2. Coordinating site safety decisions with the project manager.

3. Designating exclusion, decontamination and support zones on a daily basis.

4. Monitoring the condition and status of known on-site hazards and maintaining and implementing the air quality monitoring program specified in this CHASP.

5. Maintaining the work zone entry/exit log and site entry/exit log.

6. Maintaining records of safety problems, corrective measures and documentation of chemical exposures or physical injuries (the site safety officer will document these conditions in a bound notebook and maintain a copy of the notebook on-site).

The person who observes safety concerns and potential hazards that have not been addressed in the daily safety meetings should immediately report their observations/concerns to the site safety officer or appropriate key personnel.

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2.0 SITE BACKGROUND AND SCOPE OF WORK

The Site is located at 1035 Fulton Street in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1992 and Lots 12, 13, 15, and 16 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 6,438-square feet and is bounded by Block 1992 Lot 17 (multi-story residential building) to the north, Fulton Street and Block 2015 Lots 21, 22 and 23 (mixed residential/commercial buildings and a parking lot (Lot 23)) to the south, Block 1992 Lots 11, 20 and 28 (a mixed residential/commercial building, vacant land and a parking lot, respectively) to the east, and Downing Street and Block 1991 Lot 1 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

The proposed future use of the Site will consist of redeveloping the lot with a 7-story mixed use building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

The 7-story mixed use building and cellar will occupy the entire Site. The cellar will be used for commercial space, recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor will be used for commercial and residential space, residential lobby, and bicycle storage. The second through seventh floors will all be residential units.

The top of the cellar floor will be approximately 10 feet below sidewalk level, requiring excavation of the entire footprint of the lot to approximately 11 feet below grade, with additional for the elevator pit to approximately 15ft below sidewalk level. Assuming an excavation depth of approximately 11 feet across the Site, a total of approximatley 2,623 cubic yards (3,934 tons) of soil will be removed.

2.1 Prior Investigations

2.1.1 Remedial Investigation Report

EBC performed a subsurface investigation at the Site consisting of the following;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil samples for chemical analysis from the soil borings to evaluate soil quality; and
3. Installed four soil vapor probes throughout the Site and collected three samples for chemical analysis.

Soil Sampling Results

Soil/fill samples collected during the RI showed no VOCs or PCBs detected above Unrestricted Use SCOs. Seven SVOCs including benz(a)anthracene (max. of 6,900 µg/Kg), benzo(a)pyrene (max. of 5,900 µg/Kg), benzo(b)fluoranthene (max. of 7,500 µg/Kg), benzo(k)fluoranthene (max. of 2,800 µg/Kg), chrysene (max. of 7,300 µg/Kg), dibenz(a,h)anthracene (840 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,600 µg/Kg) were detected above their respective Restricted

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Residential Use SCOs within three of the six shallow samples. Six of the seven SVOCs were also detected above Restricted Residential Use SCOs in the duplicate sample. The SVOCs detected above Restricted Residential Use SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Four pesticides, 4,4'-DDD (8.4 µg/Kg), 4,4'-DDE (max. of 14 µg/Kg), 4,4'-DDT (max. of 230 µg/Kg) and aldrin (6.4 µg/Kg) were detected above Unrestricted Use SCOs in four of the six shallow samples collected. All pesticide concentrations were well below Restricted Residential SCOs. Three metals, including lead (max. of 869 µg/Kg), mercury (max. of 1.61 µg/Kg) and zinc (max. of 563 µg/Kg) exceeded Unrestricted Use SCOs in all six shallow soil samples. Of these metals, lead and mercury also exceeded Restricted Residential SCOs in three of the six samples. Chromium was detected above Unrestricted Use SCOs in the duplicate sample, however, the compound was not detected above UUSCOs in any other sample. Lead and mercury were also detected above RRSCOs in the duplicate sample. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Unrestricted Use SCOs within any of the six deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

Groundwater Sampling Results

Groundwater was not collected during the RI.

Soil Vapor Sampling Results

Soil vapor samples collected during the RI showed chlorinated and petroleum VOCs at low concentrations. Tetrachloroethylene (PCE) was detected in all four soil vapor samples at a maximum concentration of 3.18 $\mu g/m^3$ and carbon tetrachloride was detected in all four samples at a maximum concentration of 0.314 $\mu g/m^3$. Trichloroethene (TCE) and 1,1,1-TCA were not detected in any of the four samples. The PCE and carbon tetrachloride concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from approximately 38.96 $\mu g/m^3$ to 94.44 $\mu g/m^3$. Overall, the highest reported concentrations were for acetone (234 $\mu g/m^3$) and ethanol (175 $\mu g/m^3$).

2.2 Description of Remedial Action Plan

Site activities included within the Remedial Action Plan that are included within the scope of this HASP include the following:

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and implementation of a Citizen Participation Plan;
2. Perform a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establish Track 1 Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Excavation and removal of soil/fill exceeding Track 1 SCOs. The property will be

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excavated to a depth of approximately 11 feet;

6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavted media on-Site;
7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations.
8. Transportation and off-Site disposal of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities.
9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs.
10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
11. As part of development, installation of a vapor barrier system beneath the basement concrete slab and behind the foundation walls of the proposed building. The vapor barrier will consist of Raven Industries' VaporBlock 20 Plus, which is a seven layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins.
12. As part of development, construction and maintenance of an engineered composite cover consisting of a 6 inch thick concrete basement slab;
13. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations.
14. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
15. Submission of a RAR that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, and describes all Engineering and Institutional Controls to be implemented at the Site, and lists any changes from this RAWP.
16. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for operation, maintenance, monitoring, inspection and certification of Engineering and

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Institutional Controls and reporting at a specified frequency.

17. If Track 1 is not achieved, the property will continue to be flagged with an E-Designation by the NYC Buildings Department. Establishment of Engineering Controls and Institutional Controls in the RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

3.0 HAZARD ASSESSMENT

This section identifies the hazards associated with the proposed scope of work, general physical hazards that can be expected at most sites; and presents a summary of documented or potential chemical hazards at the site. Every effort must be made to reduce or eliminate these hazards. Those that cannot be eliminated must be guarded against using engineering controls and/or personal protective equipment.

3.1 Physical Hazards

3.1.1 Tripping Hazards

An area of risk associated with on-site activities are presented by uneven ground, concrete, curbstones or equipment which may be present at the site thereby creating a potential tripping hazard. During intrusive work, care should be taken to mark or remove any obstacles within the exclusion zone.

3.1.2 Climbing Hazards

During site activities, workers may have to work on excavating equipment by climbing. The excavating contractor will conform with any applicable NIOSH and OSHA requirements or climbing activities.

3.1.3 Cuts and Lacerations

Field activities that involve excavating activities usually involve contact with various types of machinery. A first aid kit approved by the American Red Cross will be available during all intrusive activities.

3.1.4 Lifting Hazards

Improper lifting by workers is one of the leading causes of industrial injuries. Field workers in the excavation program may be required to lift heavy objects. Therefore, all members of the field crew should be trained in the proper methods of lifting heavy objects. All workers should be cautioned against lifting objects too heavy for one person.

3.1.5 Utility Hazards

Before conducting any excavation, the excavation contractor will be responsible for locating and verifying all existing utilities at each excavation.

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3.1.6 Traffic Hazards

All traffic, vehicular and pedestrian, shall be maintained and protected at all times consistent with local, state and federal agency regulations regarding such traffic and in accordance with NYCDOT guidelines. The excavation contractor shall carry on his operations without undue interference or delays to traffic. The excavation contractor shall furnish all labor, materials, guards, barricades, signs, lights, and anything else necessary to maintain traffic and to protect his work and the public, during operations.

3.2 Work in Extreme Temperatures

Work under extremely hot or cold weather conditions requires special protocols to minimize the chance that employees will be affected by heat or cold stress.

3.2.1 Heat Stress

The combination of high ambient temperature, high humidity, physical exertion, and personal protective apparel, which limits the dissipation of body heat and moisture, can cause heat stress.

The following prevention, recognition and treatment strategies will be implemented to protect personnel from heat stress. Personnel will be trained to recognize the symptoms of heat stress and to apply the appropriate treatment.

1. Prevention
    a. Provide plenty of fluids. Available in the support zone will be a 50% solution of fruit punch and water or plain water.
    b. Work in Pairs. Individuals should avoid undertaking any activity alone.
    c. Provide cooling devices. A spray hose and a source of water will be provided to reduce body temperature, cool protective clothing and/or act as a quick-drench shower in case of an exposure incident.
    d. Adjustment of the work schedule. As is practical, the most labor-intensive tasks should be carried out during the coolest part of the day.

2. Recognition and Treatment
    a Heat Rash (or prickly heat):
    Cause: Continuous exposure to hot and humid air, aggravated by chafing clothing.
    Symptoms: Eruption of red pimples around sweat ducts accompanied by intense itching and tingling.
    Treatment: Remove source or irritation and cool skin with water or wet cloths.

    b. Heat Cramps (or heat prostration)
    Cause: Profuse perspiration accompanied by inadequate replenishment of body water and electrolytes.
    Symptoms: Muscular weakness, staggering gait, nausea, dizziness, shallow breathing, pale and clammy skin, approximately normal body temperature.
    Treatment: Perform the following while making arrangement for transport to a medical facility. Remove the worker to a contamination reduction zone. Remove protective clothing. Lie worker down on back in a

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cool place and raise feet 6 to 12 inches. Keep warm, but loosen all clothing. If conscious, provide sips of salt-water solution, using one teaspoon of salt in 12 ounces of water. Transport to a medical facility.

c. Heat Stroke

Cause: Same as heat exhaustion. This is also an extremely serious condition.

Symptoms: Dry hot skin, dry mouth, dizziness, nausea, headache, rapid pulse.

Treatment: Cool worker immediately by immersing or spraying with cool water or sponge bare skin after removing protective clothing. Transport to hospital.

3.2.2 Cold Exposure

Exposure to cold weather, wet conditions and extreme wind-chill factors may result in excessive loss of body heat (hypothermia) and /or frostbite. To guard against cold exposure and to prevent cold injuries, appropriate warm clothing should be worn, warm shelter must be readily available, rest periods should be adjusted as needed, and the physical conditions of on-site field personnel should be closely monitored. Personnel and supervisors working on-site will be made aware of the signs and symptoms of frost bite and hypothermia such as shivering, reduced blood pressure, reduced coordination, drowsiness, impaired judgment, fatigue, pupils dilated but reactive to light and numbing of the toes and fingers.

3.3 Chemical Hazards

Soil collected from the site as part of several subsurface investigations performed at the site have revealed elevated levels of SVOCs, metals and pesticides in historic fill at the Site.

Semi-Volatile organic compounds reported to be present at elevated concentrations in historic fill materials at the Site include the following:

Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene	Dibenzo(a,h)anthracene
Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Chrysene	

Metals reported to be present at elevated concentrations in historic fill materials at the Site include the following:

Lead	Mercury	Zinc

Pesticides reported to be present at elevated concentrations in historic fill materials at the Site include the following:

4,4'-DDD	4,4'-DDE	4,4'-DDT
Aldrin		

The primary routes of exposure to identified contaminants in soil to on-site construction workers are through inhalation, ingestion and absorption.

Appendix C includes information sheets for all detected chemicals that may be encountered at the site.

3.3.1 Respirable Dust

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Dust may be generated from vehicular traffic and/or excavation activities. If visible observation detects elevated levels of dust, a program of wetting will be employed by the site safety officer. If elevated dust levels persist, the site safety office will employ dust monitoring using a particulate monitor (Miniram or equivalent). If monitoring detects concentrations greater than 5,000 µg/m3 over daily background, the site safety officer will take corrective actions as defined herein, including the use of water for dust suppression and if this is not effective, requiring workers to wear APRs with efficiency particulate air (HEPA) cartridges.

Absorption pathways for dust and direct contact with soils or groundwater will be mitigated with the implementation of latex gloves, hand washing and decontamination exercises when necessary.

3.3.2 Dust Control and Monitoring During Earthwork

Dust generated during excavation activities or other earthwork may contain contaminants identified in soils at the site. Dust will be controlled by wetting the working surface with water. Calcium chloride may be used if the problem cannot be controlled with water. Air monitoring and dust control techniques are specified in a site specific Dust Control Plan (if applicable). Site workers will not be required to wear APR's unless dust concentrations are consistently over 5,000 $\mu g/m^3$ over site-specific background in the breathing zone as measured by a dust monitor unless the site safety officer directs workers to wear APRs. The site safety officer will use visible dust as an indicator to implement the dust control plan.

3.3.3 Organic Vapors

Although no VOCs were detected within any of the soil samples collected at the Site, the site safety officer will periodically monitor organic vapors with a Photo-ionization Detector (PID) during excavation activities to determine whether organic vapor concentrations exceed action levels shown in Section 5 and/or the Community Air Monitoring Plan.

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4.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) shall be selected in accordance with the site air monitoring program, OSHA 29 CFR 1910.120(c), (g), and 1910.132. Protective equipment shall be NIOSH approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136. The only true difference among the levels of protection from D thru B is the addition of the type of respiratory protection. **It is anticipated that work will be performed in Level D PPE.**

4.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with, hazardous concentrations of harmful chemicals. Level D PPE consists of:

- standard work clothes, coveralls, or tyvek, as needed;
- steel toe and steel shank work boots;
- hard hat;
- gloves, as needed;
- safety glasses;
- hearing protection;
- equipment replacements are available as needed.

4.2 Level C

Level C PPE shall be donned when sustained concentrations of measured total organic vapors in the breathing zone exceed background concentrations (using a portable OVA, or equivalent), by more than 5 ppm. The specifications on the APR filters used must be appropriate for contaminants identified or expected to be encountered. Level C PPE shall be donned when the identified contaminants have adequate warning properties and criteria for using APR have been met. Level C PPE consists of:

- chemical resistant or coated tyvek coveralls;
- steel-toe and steel-shank workboots;
- chemical resistant overboots or disposable boot covers;
- disposable inner gloves (surgical gloves);
- disposable outer gloves;
- full face APR fitted with organic vapor/dust and mist filters or filters appropriate for the identified or expected contaminants;
- hard hat;
- splash shield, as needed; and,
- ankles/wrists taped with duct tape.

The site safety officer will verify if Level C is appropriate by checking organic vapor concentrations using compound and/or class-specific detector tubes.

The exact PPE ensemble is decided on a site-by-site basis by the Site Safety Officer with the intent to provide the most protective and efficient worker PPE.

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4.3 Activity-Specific Levels of Personal Protection

The required level of PPE is activity-specific and is based on air monitoring results (Section 4.0) and properties of identified or expected contaminants. **It is expected that site work will be performed in Level D.** If air monitoring results indicate the necessity to upgrade the level of protection, engineering controls (i.e. Facing equipment away from the wind and placing site personnel upwind of excavations, active venting, etc.) will be implemented before requiring the use of respiratory protection.

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5.0 AIR MONITORING AND ACTION LEVELS

29 CFR 1910.120(h) specifies that monitoring shall be performed where there may be a question of employee exposure to hazardous concentrations of hazardous substances in order to assure proper selection of engineering controls, work practices and personal protective equipment so that employees are not exposed to levels which exceed permissible exposure limits, or published exposure levels if there are no permissible exposure limits, for hazardous substances.

5.1 Air Monitoring Requirements

If excavation work is performed, air will be monitored for VOCs with a portable ION Science 3000EX photoionization detector, or the equivalent. If necessary, Lower Explosive Limit (LEL) and oxygen will be monitored with a Combustible Gas Indicator (CGI). If appropriate, fugitive dust will be monitored using a MiniRam Model PDM-3 aerosol monitor. Air will be monitored when any of the following conditions apply:

- initial site entry;
- during any work where a potential IDLH condition or flammable atmosphere could develop;
- excavation work begins on another portion of the site;
- contaminants, other than those previously identified, have been discovered;
- each time a different task or activity is initiated;
- during trenching and/or excavation work.

The designated site safety officer will record air monitoring data and ensure that air monitoring instruments are calibrated and maintained in accordance with manufacturer's specifications. Instruments will be zeroed daily and checked for accuracy. Monitoring results will be recorded in a field notebook and will be transferred to instrument reading logs.

5.2 Work Stoppage Responses

The following responses will be initiated whenever one or more of the action levels necessitating a work stoppage are exceeded:

1. The SSO will be consulted immediately
2. All personnel (except as necessary for continued monitoring and contaminant migration, if applicable) will be cleared from the work area (eg from the exclusion zone).
3. Monitoring will be continued until intrusive work resumes.

5.3 Action Levels During Excavation Activities

Instrument readings will be taken in the breathing zone above the excavation pit unless otherwise noted. Each action level is independent of all other action levels in determining responses.

Organic Vapors (PID)	LEL %	Responses
0-1 ppm above background	0%	• Continue excavating • Level D protection • Continue monitoring every 10 minutes
1-5 ppm Above Background, Sustained Reading	1-10%	• Continue excavating • Go to Level C protection or employ

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		engineering controls • Continue monitoring every 10 minutes
5-25 ppm Above Background, Sustained Reading	10-20%	• Discontinue excavating, unless PID is only action level exceeded. • Level C protection or employ engineering controls • Continue monitoring for organic vapors 200 ft downwind • Continuous monitoring for LEL at excavation pit
>25 ppm Above Background, Sustained Reading	>20%	• Discontinue excavating • Withdraw from area, shut off all engine ignition sources. • Allow pit to vent • Continuous monitoring for organic vapors 200 ft downwind.

Notes: Air monitoring will occur in the breathing zone 30 inches above the excavation pit. Readings may also be taken in the excavation pit but will not be used for action levels.

If action levels for any one of the monitoring parameters are exceeded, the appropriate responses listed in the right hand column should be taken. If instrument readings do not return to acceptable levels after the excavation pit has been vented for a period of greater than one-half hour, a decision will then be made whether or not to seal the pit with suppressant foam.

If, during excavation activities, downwind monitoring PID readings are greater than 5 ppm above background for more than one-half hour, excavation will stop until sustained levels are less then 5 ppm (see Community Air Monitoring Plan).

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6.0 SITE CONTROL

6.1 Work Zones

The primary purpose of site controls is to establish the perimeter of a hazardous area, to reduce the migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. When operations are to take place involving hazardous materials, the site safety officer will establish an exclusion zone, a decontamination zone, and a support zone. These zones "float" (move around the site) depending on the tasks being performed on any given day. The site safety officer will outline these locations before work begins and when zones change. The site safety officer records this information in the site log book.

Due to the dimensions of the Site and the work area, it is expected that an exclusion zone will include the entire fenced area with the exception of the construction entrance area, which will serve as the decontamination zone. A support zone if needed will be located outside of the fenced area. All onsite workers engaged in the excavation of hazardous or contaminated materials must provide evidence of OSHA 24 or 40-hour Hazardous Waste Operations and Emergency Response Operations training to conduct work within the exclusion zone established by the site safety officer. The exclusion zone is defined by the site safety officer but will typically be a 50-foot area around work activities. Gross decontamination (as determined by the site Health and Safety Officer) is conducted in the exclusion zone; all other decontamination is performed in the decontamination zone or trailer, if provided.

Protective equipment is removed in the decontamination zone. Disposable protective equipment is stored in receptacles staged in the decontamination zone, and non-disposable equipment is decontaminated. All personnel and equipment exit the exclusion zone through the decontamination zone. If a decontamination trailer is provided the first aid equipment, an eye wash unit, and drinking water are kept in the decontamination trailer.

The support zone is used for vehicle parking, daily safety meetings, and supply storage. Eating, drinking, and smoking are permitted only in the support zone. When a decontamination trailer is not provided, the eye wash unit, first aid equipment, and drinking water are kept at a central location designated by the site safety officer.

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7.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

7.1 Emergency Equipment On-site

Private telephones:	Site personnel.
Two-way radios:	Site personnel where necessary.
Emergency Alarms:	On-site vehicle horns*.
First aid kits:	On-site, in vehicles or office.
Fire extinguisher:	On-site, in office or on equipment.

* Horns: Air horns will be supplied to personnel at the discretion of the project superintendent or site safety officer.

7.2 Emergency Telephone Numbers

General Emergencies	911
Kings County Police	911
NYC Fire Department	911
The Brooklyn Hospital Center	(718) 250-8000
NYSDEC Spills Hotline	1-800-457-7362
NYCDEP Project Manager	(212) 442-7126
NYC Department of Health	(212) 676-2400
National Response Center	1-800-424-8802
Poison Control	1-800-222-1222
Project Manager	1-631-504-6000
Site Safety Officer	1-631-504-6000

7.3 Personnel Responsibilities During an Emergency

The project manager is primarily responsible for responding to and correcting any emergency situations. However, in the absence of the project manager, the site safety officer shall act as the project manager's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel including: withdrawal from the exclusion zone, evacuate and secure the site, or upgrade/downgrade the level of protective clothing and respiratory protection;

- Ensure that appropriate federal, state, and local agencies are informed and emergency response plans are coordinated. In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation;

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- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel;

- Determine the cause of incidents and make recommendations to prevent recurrence; and,

- Ensure that all required reports have been prepared.

The following key personnel are planned for this project:

- Project Manager Ms. Kristen DiScenza (631) 504-6000
- Site Safety Officer Mr. Kevin Waters (631) 504-6000

7.4 Medical Emergencies

A person who becomes ill or injured in the exclusion zone will be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination will be completed and first aid administered prior to transport. First aid will be administered while waiting for an ambulance or paramedics. A Field Accident Report (**Appendix D**) must be filled out for any injury.

A person transporting an injured/exposed person to a clinic or hospital for treatment will take the directions to the hospital (**Appendix D**).and information on the chemical(s) to which they may have been exposed (**Appendix C**).

7.5 Fire or Explosion

In the event of a fire or explosion, the local fire department will be summoned immediately. The site safety officer or his designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- use fire fighting equipment available on site; or,
- remove or isolate flammable or other hazardous materials that may contribute to the fire.

7.6 Evacuation Routes

Evacuation routes established by work area locations for each site will be reviewed prior to commencing site operations. As the work areas change, the evacuation routes will be altered accordingly, and the new route will be reviewed.

Under extreme emergency conditions, evacuation is to be immediate without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel will follow these instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone or in a safe place.

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- The site safety officer will conduct a head count to ensure that all personnel have been evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

7.7 Spill Control Procedures

Spills associated with site activities may be attributed to project equipment and include gasoline, diesel and hydraulic oil. In the event of a leak or a release, site personnel will inform their supervisor immediately, locate the source of spillage and stop the flow if it can be done safely. A spill containment kit including absorbent pads, booms and/or granulated speedy dry absorbent material will be available to site personnel to facilitate the immediate recovery of the spilled material. Daily inspections of site equipment components including hydraulic lines, fuel tanks, etc. will be performed by their respective operators as a preventative measure for equipment leaks and to ensure equipment soundness. In the event of a spill, site personnel will immediately notify the NYSDEC (1-800-457-7362), and a spill number will be generated.

7.8 Vapor Release Plan

If work zone organic vapor (excluding methane) exceeds 5 ppm, then a downwind reading will be made either 200 feet from the work zone or at the property line, whichever is closer. If readings at this location exceed 5 ppm over background, the work will be stopped.

If 5 ppm of VOCs are recorded over background on a PID at the property line, then an off-site reading will be taken within 20 feet of the nearest residential or commercial property, whichever is closer. If efforts to mitigate the emission source are unsuccessful for 30 minutes, then the designated site safety officer will:

- contact the local police;
- continue to monitor air every 30 minutes, 20 feet from the closest off-site property. If two successive readings are below 5 ppm (non-methane), off-site air monitoring will be halted.
- All property line and off site air monitoring locations and results associated with vapor releases will be recorded in the site safety log book.

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APPENDIX A

SITE SAFETY ACKNOWLEDGEMENT FORM

DAILY BREIFING SIGN-IN SHEET

Date:_____ Person Conducting Briefing:_____

Project Name and Location:_____

1. AWARENESS (topics discussed, special safety concerns, recent incidents, etc…):

_____

_____

_____

_____

2. OTHER ISSUES (HASP changes, attendee comments, etc…):

_____

_____

_____

3. ATTENDEES (Print Name):

1.	11.
2.	12.
3.	13.
4.	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.
10.	20.

APPENDIX B

SITE SAFETY PLAN AMENDMENTS

SITE SAFETY PLAN AMENDMENT FORM

Site Safety Plan Amendment #:_____

Site Name: _____

Reason for Amendment:_____

_____

_____

_____

Alternative Procedures:_____

_____

_____

_____

Required Changes in PPE:_____

_____

_____

_____

_____ _____

Project Superintendent (signature) **Date**

_____ _____

Health and Safety Consultant (signature) **Date**

_____ _____

Site Safety Officer (signature) **Date**

APPENDIX C

CHEMICAL HAZARDS

CHEMICAL HAZARDS

The attached International Chemical Safety Cards are provided for contaminants of concern that have been identified in soils and/or groundwater at the site.

International Chemical Safety Cards

BARIUM SULFATE

ICSC: 0827

Barium sulphate
Blanc fixe
Artificial barite
$BaSO_4$
Molecular mass: 233.43

ICSC # 0827
CAS # 7727-43-7
RTECS # CR0600000
October 20, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
•EYES		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Personal protection: P1 filter respirator for inert particles.		R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0827

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

BARIUM SULFATE

ICSC: 0827

I M P O R T A N T D A T A	**PHYSICAL STATE; APPEARANCE:** ODOURLESS TASTELESS, WHITE OR YELLOWISH CRYSTALS OR POWDER. **PHYSICAL DANGERS:** **CHEMICAL DANGERS:** Reacts violently with aluminium powder. **OCCUPATIONAL EXPOSURE LIMITS:** TLV: 10 mg/m³ as TWA; (ACGIH 2004). MAK: (Inhalable fraction) 4 mg/m³; (Respirable fraction) 1.5 mg/m³; (DFG 2004). OSHA PEL†: TWA 15 mg/m^3 (total) TWA 5 mg/m^3 (resp) NIOSH REL: TWA 10 mg/m^3 (total) TWA 5 mg/m^3 (resp) NIOSH IDLH: N.D. See: IDLH INDEX	**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation of its aerosol. **INHALATION RISK:** Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly. **EFFECTS OF SHORT-TERM EXPOSURE:** **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** Lungs may be affected by repeated or prolonged exposure to dust particles , resulting in baritosis (a form of benign pneumoconiosis).
PHYSICAL PROPERTIES	Melting point (decomposes): 1600°C Density: 4.5 g/cm³	Solubility in water: none
ENVIRONMENTAL DATA		

N O T E S

Occurs in nature as the mineral barite; also as barytes, heavy spar. Card has been partly updated in October 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

(C) IPCS, CEC, 1994

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International Chemical Safety Cards

COPPER

ICSC: 0240

Cu
(powder)

ICSC # 0240
CAS # 7440-50-8
RTECS # GL5325000
September 24, 1993 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Special powder, dry sand, NO other agents.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
•INHALATION	Cough. Headache. Shortness of breath. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
•SKIN	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers. Carefully collect remainder. Then remove to safe place. (Extra personal protection: P2 filter respirator for harmful particles).	Separated from - See Chemical Dangers.	R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0240

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

COPPER

ICSC: 0240

I M P

PHYSICAL STATE; APPEARANCE:
RED POWDER, TURNS GREEN ON EXPOSURE TO MOIST AIR.

PHYSICAL DANGERS:

CHEMICAL DANGERS:

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation and by ingestion.

INHALATION RISK:
Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

O R T A N T D A T A	Shock-sensitive compounds are formed with acetylenic compounds, ethylene oxides and azides. Reacts with strong oxidants like chlorates, bromates and iodates, causing explosion hazard. **OCCUPATIONAL EXPOSURE LIMITS:** TLV: 0.2 mg/m³ fume (ACGIH 1992-1993). TLV (as Cu, dusts & mists): 1 mg/m³ (ACGIH 1992-1993). Intended change 0.1 mg/m³ Inhal., A4 (not classifiable as a human carcinogen); MAK: 0.1 mg/m³ (Inhalable fraction) Peak limitation category: II(2) Pregnancy risk group: D (DFG 2005). OSHA PEL*: TWA 1 mg/m^3 *Note: The PEL also applies to other copper compounds (as Cu) except copper fume. NIOSH REL*: TWA 1 mg/m^3 *Note: The REL also applies to other copper compounds (as Cu) except Copper fume. NIOSH IDLH: 100 mg/m^3 (as Cu) See: 7440508	**EFFECTS OF SHORT-TERM EXPOSURE:** Inhalation of fumes may cause metal fume fever. See Notes. **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** Repeated or prolonged contact may cause skin sensitization.
PHYSICAL PROPERTIES	Boiling point: 2595°C Melting point: 1083°C Relative density (water = 1): 8.9	Solubility in water: none
ENVIRONMENTAL DATA		

N O T E S

The symptoms of metal fume fever do not become manifest until several hours.

ADDITIONAL INFORMATION

ICSC: 0240 **COPPER**

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International Chemical Safety Cards

LEAD

ICSC: 0052

Lead metal
Plumbum
Pb
Atomic mass: 207.2
(powder)

ICSC # 0052
CAS # 7439-92-1
RTECS # OF7525000
October 08, 2002 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P3 filter respirator for toxic particles.	Separated from food and feedstuffs incompatible materials See Chemical Dangers.	R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0052

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

LEAD

ICSC: 0052

I M P O R T A N T D A T A

PHYSICAL STATE; APPEARANCE:
BLUISH-WHITE OR SILVERY-GREY SOLID IN VARIOUS FORMS. TURNS TARNISHED ON EXPOSURE TO AIR.

PHYSICAL DANGERS:
Dust explosion possible if in powder or granular form, mixed with air.

CHEMICAL DANGERS:
On heating, toxic fumes are formed. Reacts with oxidants. Reacts with hot concentrated nitric acid, boiling concentrated hydrochloric acid and sulfuric acid. Attacked by pure water and by weak organic acids in the presence of oxygen.

OCCUPATIONAL EXPOSURE LIMITS:
TLV: 0.05 mg/m³ A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued (ACGIH 2004).
MAK:
Carcinogen category: 3B; Germ cell mutagen group: 3A; (DFG 2004).
EU OEL: as TWA 0.15 mg/m³ (EU 2002).
OSHA PEL*: 1910.1025 TWA 0.050 mg/m^3 See Appendix C *Note: The PEL also applies to other lead compounds (as Pb) -- see Appendix C.
NIOSH REL*: TWA 0.050 mg/m^3 See Appendix C
*Note: The REL also applies to other lead compounds (as Pb) -- see Appendix C.
NIOSH IDLH: 100 mg/m^3 (as Pb) See: 7439921

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation and by ingestion.

INHALATION RISK:
A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

EFFECTS OF SHORT-TERM EXPOSURE:

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
The substance may have effects on the blood bone marrow central nervous system peripheral nervous system kidneys , resulting in anaemia, encephalopathy (e.g., convulsions), peripheral nerve disease, abdominal cramps and kidney impairment. Causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 1740°C
Melting point: 327.5°C
Density: 11.34 g/cm3
Solubility in water: none

ENVIRONMENTAL DATA

Bioaccumulation of this chemical may occur in plants and in mammals. It is strongly advised that this substance does not enter the environment.

N O T E S

Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-51S1872

ADDITIONAL INFORMATION

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International Chemical Safety Cards

NICKEL

ICSC: 0062

Ni
Atomic mass: 58.7
(powder)

ICSC # 0062
CAS # 7440-02-0
RTECS # QR5950000
EC # 028-002-00-7
October 17, 2001 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Flammable as dust. Toxic fumes may be released in a fire.		Dry sand. NO carbon dioxide. NO water.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	
•INHALATION	Cough. Shortness of breath.	Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety spectacles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Vacuum spilled material. Carefully collect remainder, then remove to safe place. Personal protection: P2 filter respirator for harmful particles.	Separated from strong acids.	Xn symbol R: 40-43 S: 2-22-36

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0062

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

NICKEL

ICSC: 0062

I

PHYSICAL STATE; APPEARANCE:
SILVERY METALLIC SOLID IN VARIOUS FORMS.

PHYSICAL DANGERS:

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of the dust.

M P O R T A N T D A T A	Dust explosion possible if in powder or granular form, mixed with air. **CHEMICAL DANGERS:** Reacts violently, in powder form, with titanium powder and potassium perchlorate, and oxidants such as ammonium nitrate, causing fire and explosion hazard. Reacts slowly with non-oxidizing acids and more rapidly with oxidizing acids. Toxic gases and vapours (such as nickel carbonyl) may be released in a fire involving nickel. **OCCUPATIONAL EXPOSURE LIMITS:** TLV: (Inhalable fraction) 1.5 mg/m³ as TWA A5 (not suspected as a human carcinogen); (ACGIH 2004). MAK: (Inhalable fraction) sensitization of respiratory tract and skin (Sah); Carcinogen category: 1; (DFG 2004). OSHA PEL*†: TWA 1 mg/m^3 *Note: The PEL does not apply to Nickel carbonyl. NIOSH REL*: Ca TWA 0.015 mg/m^3 See Appendix A *Note: The REL does not apply to Nickel carbonyl. NIOSH IDLH: Ca 10 mg/m^3 (as Ni) See: 7440020	**INHALATION RISK:** Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed. **EFFECTS OF SHORT-TERM EXPOSURE:** May cause mechanical irritation. Inhalation of fumes may cause pneumonitis. **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma. Lungs may be affected by repeated or prolonged exposure. This substance is possibly carcinogenic to humans.
PHYSICAL PROPERTIES	Boiling point: 2730°C Melting point: 1455°C Density: 8.9 g/cm3	Solubility in water: none
ENVIRONMENTAL DATA		

N O T E S

At high temperatures, nickel oxide fumes will be formed. Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance.

ADDITIONAL INFORMATION

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International Chemical Safety Cards

MERCURY

ICSC: 0056

Quicksilver
Liquid silver
Hg
Atomic mass: 200.6

ICSC # 0056
CAS # 7439-97-6
RTECS # OV4550000
UN # 2809
EC # 080-001-00-0
April 22, 2004 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Risk of fire and explosion.		In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
•INHALATION	Abdominal pain. Cough. Diarrhoea. Shortness of breath. Vomiting. Fever or elevated body temperature.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
•SKIN	MAY BE ABSORBED! Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
•EYES		Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work. Wash hands before eating.	Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area in case of a large spill! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable non-metallic containers as far as possible. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs Well closed.	Special material. Do not transport with food and feedstuffs. T symbol N symbol R: 23-33-50/53 S: 1/2-7-45-60-61 UN Hazard Class: 8 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0056

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International Chemical Safety Cards

MERCURY

ICSC: 0056

I M P O R T A N T D A T A

PHYSICAL STATE; APPEARANCE:
ODOURLESS, HEAVY AND MOBILE SILVERY LIQUID METAL.

PHYSICAL DANGERS:

CHEMICAL DANGERS:
Upon heating, toxic fumes are formed. Reacts violently with ammonia and halogens causing fire and explosion hazard. Attacks aluminium and many other metals forming amalgams.

OCCUPATIONAL EXPOSURE LIMITS:
TLV: 0.025 mg/m³ as TWA (skin) A4 BEI issued (ACGIH 2004).
MAK: 0.1 mg/m³ Sh
Peak limitation category: II(8) Carcinogen category: 3B (DFG 2003).
OSHA PEL†: C 0.1 mg/m^3
NIOSH REL: Hg Vapor: TWA 0.05 mg/m^3 skin
Other: C 0.1 mg/m^3 skin
NIOSH IDLH: 10 mg/m^3 (as Hg) See: 7439976

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of its vapour and through the skin , also as a vapour!

INHALATION RISK:
A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.

EFFECTS OF SHORT-TERM EXPOSURE:
The substance is irritating to the skin. Inhalation of the vapours may cause pneumonitis. The substance may cause effects on the central nervous systemandkidneys. The effects may be delayed. Medical observation is indicated.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
The substance may have effects on the central nervous system kidneys , resulting in irritability, emotional instability, tremor, mental and memory disturbances, speech disorders. Danger of cumulative effects. Animal tests show that this substance possibly causes toxic effects upon human reproduction.

PHYSICAL PROPERTIES

Boiling point: 357°C
Melting point: -39°C
Relative density (water = 1): 13.5
Solubility in water:
none

Vapour pressure, Pa at 20°C: 0.26
Relative vapour density (air = 1): 6.93
Relative density of the vapour/air-mixture at 20°C (air = 1): 1.009

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish.

N O T E S

Depending on the degree of exposure, periodic medical examination is indicated. No odour warning if toxic concentrations are present. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-80GC9-II+III

ADDITIONAL INFORMATION

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International Chemical Safety Cards

ZINC POWDER

ICSC: 1205

Blue powder
Merrillite
Zn
Atomic mass: 65.4
(powder)

ICSC # 1205
CAS # 7440-66-6
RTECS # ZG8600000
UN # 1436 (zinc powder or dust)
EC # 030-001-00-1
October 24, 1994 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Highly flammable. Many reactions may cause fire or explosion. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with acid(s), base (s) and incompatible substances (see Chemical Dangers).	Special powder, dry sand, NO other agents. NO water.
EXPLOSION	Risk of fire and explosion on contact with acid(s), base(s), water and incompatible substances.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Prevent deposition of dust.	In case of fire: cool drums, etc., by spraying with water but avoid contact of the substance with water.
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
•INHALATION	Metallic taste and metal fume fever. Symptoms may be delayed (see Notes).	Local exhaust.	Fresh air, rest. Refer for medical attention.
•SKIN	Dry skin.	Protective gloves.	Rinse and then wash skin with water and soap.
•EYES		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Extinguish or remove all ignition sources. Do NOT wash away into sewer. Sweep spilled substance into containers. then remove to safe place. Personal protection: self-contained breathing apparatus.	Fireproof. Separated from acids, bases oxidants Dry.	Airtight. F symbol N symbol R: 15-17-50/53 S: 2-7/8-43-46-60-61 UN Hazard Class: 4.3 UN Subsidiary Risks: 4.2

SEE IMPORTANT INFORMATION ON BACK

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International Chemical Safety Cards

ZINC POWDER

ICSC: 1205

I M P O R T A N T D A T A

PHYSICAL STATE; APPEARANCE:
ODOURLESS GREY TO BLUE POWDER.

PHYSICAL DANGERS:
Dust explosion possible if in powder or granular form, mixed with air. If dry, it can be charged electrostatically by swirling, pneumatic transport, pouring, etc.

CHEMICAL DANGERS:
Upon heating, toxic fumes are formed. The substance is a strong reducing agent and reacts violently with oxidants. Reacts with water and reacts violently with acids and bases forming flammable/explosive gas (hydrogen - see ICSC0001) Reacts violently with sulfur, halogenated hydrocarbons and many other substances causing fire and explosion hazard.

OCCUPATIONAL EXPOSURE LIMITS:
TLV not established.

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation and by ingestion.

INHALATION RISK:
Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

EFFECTS OF SHORT-TERM EXPOSURE:
Inhalation of fumes may cause metal fume fever. The effects may be delayed.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
Repeated or prolonged contact with skin may cause dermatitis.

PHYSICAL PROPERTIES

Boiling point: 907°C
Melting point: 419°C
Relative density (water = 1): 7.14

Solubility in water: reaction
Vapour pressure, kPa at 487°C: 0.1
Auto-ignition temperature: 460°C

ENVIRONMENTAL DATA

N O T E S

Zinc may contain trace amounts of arsenic, when forming hydrogen, may also form toxic gas arsine (see ICSC 0001 and ICSC 0222). Reacts violently with fire extinguishing agents such as water, halons, foam and carbon dioxide. The symptoms of metal fume fever do not become manifest until several hours later. Rinse contaminated clothes (fire hazard) with plenty of water.

Transport Emergency Card: TEC (R)-43GWS-II+III
NFPA Code: H0; F1; R1;

ADDITIONAL INFORMATION

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International Chemical Safety Cards

DDT

ICSC: 0034

Dichlorodiphenyltrichloroethane
1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane
2,2-bis(p-Chlorophenyl)-1,1,1-trichloroethane
1,1'-(2,2,2-Trichloroethylidene)bis(4-chlorobenzene)
p,p'-DDT
$C_{14}H_9Cl_5$
Molecular mass: 354.5

ICSC # 0034
CAS # 50-29-3
RTECS # KJ3325000
UN # 2761
EC # 602-045-00-7
April 20, 2004 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
•INHALATION	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness.	Safety goggles, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Tremors. Diarrhoea. Dizziness. Headache. Vomiting. Numbness. Paresthesias. Hyperexcitability. Convulsions.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT let this chemical enter the environment. Sweep spilled substance into sealable non-metallic containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.	Provision to contain effluent from fire extinguishing. Separated from iron, aluminum and its salts, food and feedstuffs See Chemical Dangers.	Do not transport with food and feedstuffs. Severe marine pollutant. T symbol N symbol R: 25-40-48/25-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0034

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

DDT

ICSC: 0034

I M P O R T A N T D A T A

PHYSICAL STATE; APPEARANCE:
COLOURLESS CRYSTALS WHITE POWDER.
TECHNICAL PRODUCT IS WAXY SOLID.

PHYSICAL DANGERS:

CHEMICAL DANGERS:
On combustion, forms toxic and corrosive fumesincludinghydrogen chloride. Reacts with aluminium and iron.

OCCUPATIONAL EXPOSURE LIMITS:
TLV: 1 mg/m³ as TWA A3 (ACGIH 2004).
MAK: 1 mg/m³ H
Peak limitation category: II(8)
(DFG 2003).
OSHA PEL: TWA 1 mg/m^3 skin
NIOSH REL: Ca TWA 0.5 mg/m^3 See Appendix A
NIOSH IDLH: Ca 500 mg/m^3 See: 50293

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by ingestion.

INHALATION RISK:
Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly especially if powdered.

EFFECTS OF SHORT-TERM EXPOSURE:
May cause mechanical irritation. The substance may cause effects on the central nervous system , resulting in convulsions and respiratory depression Exposure at high levels may result in death. Medical observation is indicated.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
The substance may have effects on the central nervous system and liver. This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 260°C
Melting point: 109°C
Density: 1.6
g/cm3

Solubility in water: poor
Octanol/water partition coefficient as log Pow: 6.36

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to birds. Bioaccumulation of this chemical may occur along the food chain, for example in milk and aquatic organisms. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.

N O T E S

Depending on the degree of exposure, periodic medical examination is indicated. Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Consult national legislation. Agritan, Azotox, Anofex, Ixodex, Gesapon, Gesarex, Gesarol, Guesapon, Clofenotane, Zeidane, Dicophane, Neocid are trade names.

Transport Emergency Card: TEC (R)-61GT7-III

ADDITIONAL INFORMATION

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International Chemical Safety Cards

BENZO(k)FLUORANTHENE

ICSC: 0721

Dibenzo(b,jk)fluorene
8,9-Benzofluoranthene
11,12-Benzofluoranthene
$C_{20}H_{12}$
Molecular mass: 252.3

ICSC # 0721
CAS # 207-08-9
RTECS # DF6350000
EC # 601-036-00-5
March 25, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE			In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		AVOID ALL CONTACT!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety spectacles or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0721

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

BENZO(k)FLUORANTHENE

ICSC: 0721

I **M**	**PHYSICAL STATE; APPEARANCE:** YELLOW CRYSTALS	**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation of its aerosol and through the skin.

P O R T A N T D A T A	**PHYSICAL DANGERS:** **CHEMICAL DANGERS:** Upon heating, toxic fumes are formed. **OCCUPATIONAL EXPOSURE LIMITS:** TLV not established. MAK: Carcinogen category: 2; (DFG 2004). **INHALATION RISK:** Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly. **EFFECTS OF SHORT-TERM EXPOSURE:** **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** This substance is possibly carcinogenic to humans.
PHYSICAL PROPERTIES	Boiling point: 480°C Melting point: 217°C Solubility in water: none Octanol/water partition coefficient as log Pow: 6.84
ENVIRONMENTAL DATA	This substance may be hazardous to the environment; special attention should be given to air quality and water quality. Bioaccumulation of this chemical may occur in crustacea and in fish.

N O T E S

Benzo(k)fluoranthene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco.ACGIH recommends environment containing benzo(k)fluoranthene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m^3. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

ADDITIONAL INFORMATION

ICSC: 0721 **BENZO(k)FLUORANTHENE**

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International Chemical Safety Cards

BENZO(g,h,i)FLUORANTHENE

ICSC: 0527

2,13-Benzofluoranthene
Benzo(mno)fluoranthene
$C_{18}H_{10}$
Molecular mass: 226.3

ICSC # 0527
CAS # 203-12-3
RTECS # DF6140000
March 25, 1998 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, powder.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
•INHALATION		Local exhaust or breathing protection.	
•SKIN	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention. Wear protective gloves when administering first aid.
•EYES		Safety goggles, face shield, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Well closed.	R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0527

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International Chemical Safety Cards

BENZO(g,h,i)FLUORANTHENE

ICSC: 0527

I

M

P

PHYSICAL STATE; APPEARANCE:
YELLOW CRYSTALS

PHYSICAL DANGERS:

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of its aerosol and through the skin.

O R T A N T D A T A	**CHEMICAL DANGERS:** The substance decomposes on heating producing toxic fumes. **OCCUPATIONAL EXPOSURE LIMITS:** TLV not established.	**INHALATION RISK:** **EFFECTS OF SHORT-TERM EXPOSURE:** **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** See Notes.
PHYSICAL PROPERTIES	Melting point: 149°C Solubility in water: none Vapour pressure, Pa at 20°C: <10	Relative vapour density (air = 1): 7.8 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.0 Octanol/water partition coefficient as log Pow: 7.23
ENVIRONMENTAL DATA	This substance may be hazardous to the environment; special attention should be given to the total environment. In the food chain important to humans, bioaccumulation takes place, specifically in oils and fats.	

N O T E S

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Also consult ICSC #0720 and 0721.

ADDITIONAL INFORMATION

ICSC: 0527 **BENZO(g,h,i)FLUORANTHENE**

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International Chemical Safety Cards

BENZO(b)FLUORANTHENE

ICSC: 0720

Benz(e)acephenanthrylene
2,3-Benzofluoroanthene
Benzo(e)fluoranthene
3,4-Benzofluoranthene
$C_{20}H_{12}$
Molecular mass: 252.3

ICSC # 0720
CAS # 205-99-2
RTECS # CU1400000
EC # 601-034-00-4
March 25, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE			In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		AVOID ALL CONTACT!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0720

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

BENZO(b)FLUORANTHENE

ICSC: 0720

I	**PHYSICAL STATE; APPEARANCE:** COLOURLESS CRYSTALS	**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation

M P O R T A N T D A T A	**PHYSICAL DANGERS:** **CHEMICAL DANGERS:** Upon heating, toxic fumes are formed. **OCCUPATIONAL EXPOSURE LIMITS:** TLV: A2 (suspected human carcinogen); (ACGIH 2004). MAK: Carcinogen category: 2; (DFG 2004).	of its aerosol and through the skin. **INHALATION RISK:** Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly. **EFFECTS OF SHORT-TERM EXPOSURE:** **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** This substance is possibly carcinogenic to humans. May cause genetic damage in humans.
PHYSICAL PROPERTIES	Boiling point: 481°C Melting point: 168°C Solubility in water: none	Octanol/water partition coefficient as log Pow: 6.12
ENVIRONMENTAL DATA	This substance may be hazardous to the environment; special attention should be given to air quality and water quality.	

N O T E S

Benzo(b)fluoranthene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco.ACGIH recommends environment containing benzo(b)fluoranthene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m^3. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

ADDITIONAL INFORMATION

ICSC: 0720 **BENZO(b)FLUORANTHENE**

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BENZO(a)PYRENE

ICSC: 0104

Benz(a)pyrene
3,4-Benzopyrene
Benzo(d,e,f)chrysene
$C_{20}H_{12}$
Molecular mass: 252.3

ICSC # 0104
CAS # 50-32-8
RTECS # DJ3675000
EC # 601-032-00-3
October 17, 2005 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, foam, powder, carbon dioxide.
EXPLOSION			
EXPOSURE	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Personal protection: complete protective clothing including self-contained breathing apparatus. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants.	T symbol N symbol R: 45-46-60-61-43-50/53 S: 53-45-60-61

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0104

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

BENZO(a)PYRENE

ICSC: 0104

I M P O R T A N T D A T A

PHYSICAL STATE; APPEARANCE:
PALE-YELLOW CRYSTALS

PHYSICAL DANGERS:

CHEMICAL DANGERS:
Reacts with strong oxidants causing fire and explosion hazard.

OCCUPATIONAL EXPOSURE LIMITS:
TLV: Exposure by all routes should be carefully controlled to levels as low as possible A2 (suspected human carcinogen); (ACGIH 2005).
MAK:
Carcinogen category: 2; Germ cell mutagen group: 2; (DFG 2005).

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

INHALATION RISK:
Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

EFFECTS OF SHORT-TERM EXPOSURE:

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
This substance is carcinogenic to humans. May cause heritable genetic damage to human germ cells. Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 496°C
Melting point: 178.1°C
Density: 1.4
g/cm³

Solubility in water: none (<0.1 g/100 ml)
Vapour pressure :
negligible
Octanol/water partition coefficient as log Pow: 6.04

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish, in plants and in molluscs. The substance may cause long-term effects in the aquatic environment.

N O T E S

Do NOT take working clothes home. Benzo(a)pyrene is present as a component of polycyclic aromatic hydrocarbons (PAHs) in the environment, usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco.

ADDITIONAL INFORMATION

(C) IPCS, CEC, 1994

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BENZ(a)ANTHRACENE

ICSC: 0385

1,2-Benzoanthracene
Benzo(a)anthracene
2,3-Benzphenanthrene
Naphthanthracene
$C_{18}H_{12}$
Molecular mass: 228.3

ICSC # 0385
CAS # 56-55-3
RTECS # CV9275000
EC # 601-033-00-9
October 23, 1995 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.		Water spray, powder. In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		AVOID ALL CONTACT!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety goggles face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: complete protective clothing including self-contained breathing apparatus.	Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0385

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

ICSC: 0385

BENZ(a)ANTHRACENE

IMPORTANT DATA		
	PHYSICAL STATE; APPEARANCE: COLOURLESS TO YELLOW BROWN FLUORESCENT FLAKES OR POWDER.	**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
	PHYSICAL DANGERS: Dust explosion possible if in powder or granular form, mixed with air.	**INHALATION RISK:** Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.
	CHEMICAL DANGERS:	**EFFECTS OF SHORT-TERM EXPOSURE:**
	OCCUPATIONAL EXPOSURE LIMITS: TLV: A2 (suspected human carcinogen); (ACGIH 2004). MAK: Carcinogen category: 2 (as pyrolysis product of organic materials) (DFG 2005).	**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** This substance is probably carcinogenic to humans.
PHYSICAL PROPERTIES	Sublimation point: 435°C Melting point: 162°C Relative density (water = 1): 1.274 Solubility in water: none	Vapour pressure, Pa at 20°C: 292 Octanol/water partition coefficient as log Pow: 5.61
ENVIRONMENTAL DATA	Bioaccumulation of this chemical may occur in seafood.	

N O T E S

This substance is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, it may be encountered as a laboratory chemical in its pure form. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Do NOT take working clothes home. Tetraphene is a common name. Card has been partly updated in October 2005 and August 2006: see sections Occupational Exposure Limits, EU classification.

ADDITIONAL INFORMATION

ICSC: 0385 **BENZ(a)ANTHRACENE**

(C) IPCS, CEC, 1994

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Material Safety Data Sheet

Version 3.1
Revision Date 03/22/2010
Print Date 12/09/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dibenzofuran

Product Number : 236373
Brand : Aldrich

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052
Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Toxic by ingestion

HMIS Classification
Health hazard: 2
Flammability: 1
Physical hazards: 0

NFPA Rating
Health hazard: 2
Fire: 1
Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Diphenylene oxide

Formula : $C_{12}H_8O$
Molecular Weight : 168.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Dibenzofuran			
132-64-9	205-071-3	-	-

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Face shield and safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	crystalline
Colour	white, beige

Safety data

pH	no data available
Melting point	80 - 82 °C (176 - 180 °F) - lit.
Boiling point	154 - 155 °C (309 - 311 °F) at 27 hPa (20 mmHg) - lit.
Flash point	130.0 °C (266.0 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 3.77

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

Specific target organ toxicity - single exposure (GHS)
no data available

Specific target organ toxicity - repeated exposure (GHS)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information
RTECS: HP4430000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	NOEC - Cyprinodon variegatus (sheepshead minnow) - 1 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 1.05 mg/l - 96.0 h

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Dibenzofuran)
Reportable Quantity (RQ): 100 lbs
Marine pollutant: Marine pollutant
Poison Inhalation Hazard: No

IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzofuran)
Marine pollutant: Marine pollutant

IATA
UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenzofuran)

15. REGULATORY INFORMATION

OSHA Hazards
Toxic by ingestion

DSL Status
All components of this product are on the Canadian DSL list.

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information
Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

International Chemical Safety Cards

DIBENZO(a,h)ANTHRACENE

ICSC: 0431

1,25,6-Dibenzanthracene
$C_{22}H_{14}$
Molecular mass: 278.4

ICSC # 0431
CAS # 53-70-3
RTECS # HN2625000
EC # 601-041-00-2
October 23, 1995 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, powder.
EXPLOSION			
EXPOSURE		AVOID ALL CONTACT!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN	Redness. Swelling. Itching.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.	Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0431

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

DIBENZO(a,h)ANTHRACENE

ICSC: 0431

I M P O

PHYSICAL STATE; APPEARANCE:
COLOURLESS CRYSTALLINE POWDER.

PHYSICAL DANGERS:

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

INHALATION RISK:
Evaporation at 20°C is negligible; a harmful concentration

R T A N T D A T A	**CHEMICAL DANGERS:** **OCCUPATIONAL EXPOSURE LIMITS:** TLV not established.	of airborne particles can, however, be reached quickly. **EFFECTS OF SHORT-TERM EXPOSURE:** **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** The substance may have effects on the skin , resulting in photosensitization. This substance is probably carcinogenic to humans.
PHYSICAL PROPERTIES	Boiling point: 524°C Melting point: 267°C Relative density (water = 1): 1.28	Solubility in water: none Octanol/water partition coefficient as log Pow: 6.5
ENVIRONMENTAL DATA	Bioaccumulation of this chemical may occur in seafood.	

N O T E S

This is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, it may be encountered as a laboratory chemical in its pure form. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Do NOT take working clothes home. DBA is a commonly used name. This substance is one of many polycyclic aromatic hydrocarbons (PAH).

ADDITIONAL INFORMATION

ICSC: 0431 **DIBENZO(a,h)ANTHRACENE**

(C) IPCS, CEC, 1994

IMPORTANT LEGAL NOTICE: Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

CHRYSENE

ICSC: 1672

Benzoaphenanthrene
1,2-Benzophenanthrene
1,2,5,6-Dibenzonaphthalene
$C_{18}H_{12}$
Molecular mass: 228.3

ICSC # 1672
CAS # 218-01-9
RTECS # GC0700000
UN # 3077
EC # 601-048-00-0
October 12, 2006 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray. Dry powder. Foam. Carbon dioxide.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	AVOID ALL CONTACT!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety goggles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: P3 filter respirator for toxic particles. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants, Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access.	T symbol N symbol R: 45-68-50/53 S: 53-45-60-61 UN Hazard Class: 9 UN Packing Group: III Signal: Warning Aqua-Cancer Suspected of causing cancer Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

SEE IMPORTANT INFORMATION ON BACK

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European

Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

CHRYSENE

ICSC: 1672

IMPORTANT DATA

PHYSICAL STATE; APPEARANCE:
COLOURLESS TO BEIGE CRYSTALS OR POWDER

PHYSICAL DANGERS:
Dust explosion possible if in powder or granular form, mixed with air.

CHEMICAL DANGERS:
The substance decomposes on burning producing toxic fumes Reacts violently with strong oxidants

OCCUPATIONAL EXPOSURE LIMITS:
TLV: A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2006).
MAK not established.

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

INHALATION RISK:
A harmful concentration of airborne particles can be reached quickly when dispersed

EFFECTS OF SHORT-TERM EXPOSURE:

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
This substance is possibly carcinogenic to humans.

PHYSICAL PROPERTIES

Boiling point: 448°C
Melting point: 254 - 256°C
Density: 1.3 g/cm³

Solubility in water:
very poor
Octanol/water partition coefficient as log Pow: 5.9

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in seafood. It is strongly advised that this substance does not enter the environment.

NOTES

Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. This substance does not usually occur as a pure substance but as a component of polyaromatic hydrocarbon (PAH) mixtures. Human population studies have associated PAH's exposure with cancer and cardiovascular diseases.

Transport Emergency Card: TEC (R)-90GM7-III

ADDITIONAL INFORMATION

(C) IPCS, CEC, 1994

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International Chemical Safety Cards

INDENO(1,2,3-cd)PYRENE

ICSC: 0730

o-Phenylenepyrene
2,3-Phenylenepyrene
$C_{22}H_{12}$
Molecular mass: 276.3

ICSC # 0730
CAS # 193-39-5
RTECS # NK9300000
March 25, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE			In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		AVOID ALL CONTACT!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Well closed.	R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0730

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

INDENO(1,2,3-cd)PYRENE

ICSC: 0730

I **M** **P**	**PHYSICAL STATE; APPEARANCE:** YELLOW CRYSTALS **PHYSICAL DANGERS:**	**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation of its aerosol and through the skin. **INHALATION RISK:**

O R T A N T D A T A	**CHEMICAL DANGERS:** Upon heating, toxic fumes are formed. **OCCUPATIONAL EXPOSURE LIMITS:** TLV not established. MAK: Carcinogen category: 2; (DFG 2004).	Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly. **EFFECTS OF SHORT-TERM EXPOSURE:** **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** This substance is possibly carcinogenic to humans.
PHYSICAL PROPERTIES	Boiling point: 536°C Melting point: 164°C Solubility in water: none	Octanol/water partition coefficient as log Pow: 6.58
ENVIRONMENTAL DATA	This substance may be hazardous to the environment; special attention should be given to air quality and water quality. Bioaccumulation of this chemical may occur in fish.	

N O T E S

Indeno(1,2,3-cd)pyrene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco.ACGIH recommends environment containing Indeno(1,2,3-c,d)pyrene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m^3. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

ADDITIONAL INFORMATION

ICSC: 0730 **INDENO(1,2,3-cd)PYRENE**

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Material Safety Data Sheet

Version 4.0
Revision Date 07/24/2010
Print Date 12/09/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Phenanthrene
Product Number	:	695114
Brand	:	Aldrich
Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052
Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Harmful by ingestion., Irritant

Other hazards which do not result in classification
Photosensitizer.

GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard:	2
Flammability:	0
Physical hazards:	0

NFPA Rating

Health hazard:	2
Fire:	0
Reactivity Hazard:	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.

Eyes	Causes eye irritation.
Ingestion	Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $C_{14}H_{10}$
Molecular Weight : 178.23 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Phenanthrene			
85-01-8	201-581-5	-	-

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.

Handle and store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control	Update	Basis

			parameters		
Phenanthrene	85-01-8	TWA	0.2 mg/m3	1993-06-30	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.2 mg/m3	1989-03-01	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses with side-shields conforming to EN166

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	solid

Safety data

pH	no data available
Melting point	98 - 100 °C (208 - 212 °F)
Boiling point	340 °C (644 °F)
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.063 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 4.57

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - mouse - 700.0 mg/kg

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

Germ cell mutagenicity

no data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenanthrene)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 3.2 mg/l - 96.0 h
	LC100 - other fish - 1.5 mg/l - 1.0 h
Toxicity to daphnia	EC50 - Daphnia magna (Water flea) - 0.86 mg/l - 24 h

and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 0.38 mg/l - 48 h

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 1.20 mg/l - 3 h

Persistence and degradability

Biodegradability Result: 55 - 95 % - Partially biodegradable.

Bioaccumulative potential

Bioaccumulation Pimephales promelas (fathead minnow) - 28 d
Bioconcentration factor (BCF): 5,100

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Phenanthrene)
Reportable Quantity (RQ): 5000 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenanthrene)
Marine pollutant: No

IATA

UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Phenanthrene)

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

OSHA Hazards

Harmful by ingestion., Irritant

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Phenanthrene	85-01-8	1990-01-01

16. OTHER INFORMATION

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

International Chemical Safety Cards

PYRENE

ICSC: 1474

Benzo (d,e,f) phenanthrene
beta-Pyrene
$C_{16}H_{10}$
Molecular mass: 202.26

ICSC # 1474
CAS # 129-00-0
RTECS # UR2450000
November 27, 2003 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water spray, carbon dioxide, dry powder, alcohol-resistant foam, foam.
EXPLOSION			
EXPOSURE			
•INHALATION		Avoid inhalation of dust	Fresh air, rest.
•SKIN	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles.)	Separated from strong oxidants. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 1474

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

PYRENE

ICSC: 1474

I **M**	**PHYSICAL STATE; APPEARANCE:** YELLOW COLOURLESS SOLID IN VARIOUS FORMS	**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation through the skin and by ingestion

P O R T A N T D A T A	**PHYSICAL DANGERS:** **CHEMICAL DANGERS:** The substance decomposes on heating producing irritating fumes **OCCUPATIONAL EXPOSURE LIMITS:** TLV not established. MAK not established.	**INHALATION RISK:** Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed. **EFFECTS OF SHORT-TERM EXPOSURE:** Exposure to sun may provoke an irritating effect of pyrene on skin and lead to chronic skin discoloration. **EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**
PHYSICAL PROPERTIES	Boiling point: 404°C Melting point: 151°C Density: 1.27 g/cm3	Solubility in water: 0.135 mg/l at 25°C Vapour pressure, Pa at °C: 0.08 Octanol/water partition coefficient as log Pow: 4.88
ENVIRONMENTAL DATA	Bioaccumulation of this chemical may occur in crustacea,in fish,in milk,in algae andin molluscs. It is strongly advised that this substance does not enter the environment.	

N O T E S

Pyrene is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, pyrene may be encountered as a laboratory chemical in its pure form. Health effects of exposure to the substance have not been investigated adequately. See ICSC 1415 Coal-tar pitch.

ADDITIONAL INFORMATION

(C) IPCS, CEC, 1994

IMPORTANT LEGAL NOTICE:	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

APPENDIX D

HOSPITAL INFORMATION AND MAP

FIELD ACCIDENT REPORT

FIELD ACCIDENT REPORT

This report is to be filled out by the designated Site Safety Officer after EVERY accident.

PROJECT NAME _____ PROJECT. NO._____

Date of Accident _____ Time _____ Report By _____

Type of Accident (Check One):

( ) Vehicular ( ) Personal ( ) Property

Name of Injured _____ DOB or Age _____

How Long Employed _____

Names of Witnesses _____

_____

Description of Accident _____

_____

_____

Action Taken _____

_____

_____

Did the Injured Lose Any Time? _____ How Much (Days/Hrs.)? _____

Was Safety Equipment in Use at the Time of the Accident (Hard Hat, Safety Glasses, Gloves, Safety Shoes, etc.)? _____

_____

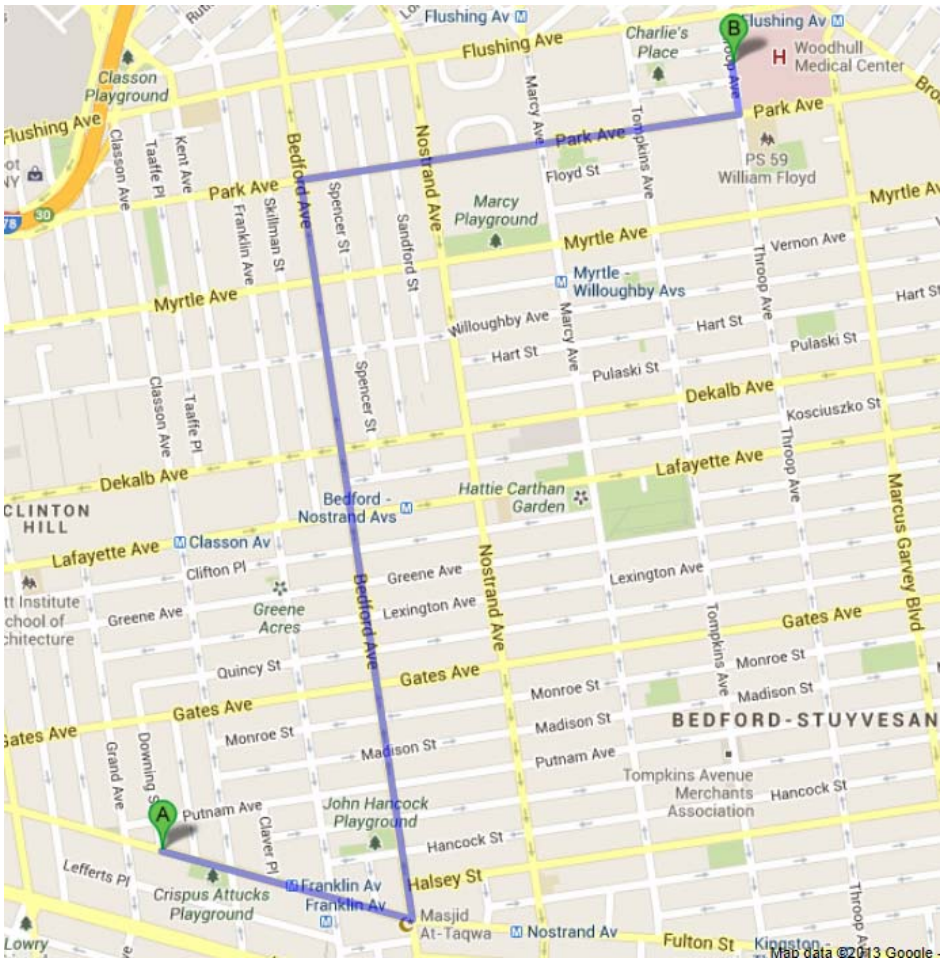
(If not, it is the EMPLOYEE'S sole responsibility to process his/her claim through his/her Health and Welfare Fund.)

INDICATE STREET NAMES, DESCRIPTION OF VEHICLES, AND NORTH ARROW

HOSPITAL INFORMATION AND MAP

The hospital nearest the site is:

WOODHUL MEDICAL CENTER
760 Broadway, Brooklyn, New York 11206
718-963-8000
2.3 Miles – About 8 Minutes



A 1035 Fulton St, Brooklyn, NY 11238

	1. Head **east** on **Fulton St** toward **Irving Pl** About 1 min	go 0.4 mi total 0.4 mi
↰	2. Turn left onto **Bedford Ave** About 4 mins	go 1.1 mi total 1.5 mi
↱	3. Turn right onto **Park Ave** About 2 mins	go 0.7 mi total 2.2 mi
↰	4. Turn left onto **Throop Ave**	go 404 ft total 2.3 mi

B **Woodhull Medical and Mental Health Center**
760 Broadway Brooklyn, New York 11206

ATTACHMENT F
VAPOR BARRIER SPECIFICATIONS

VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

RAVEN INDUSTRIES

Product Description

VaporBlock® Plus™ 20 is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock® Plus™ 20 is a highly resilient underslab / vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. VaporBlock® Plus™ 20 is more than 100 times less permeable than typical high-performance polyethylene vapor retarders against Methane, Radon and other harmful VOCs.

VaporBlock® Plus™ 20 is one of the most effective underslab gas barriers in the building industry today far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in a 20 (Class A) mil thicknesses designed to meet the most stringent requirements. VaporBlock® Plus™ 20 is produced within the strict guidelines of our ISO 9001:2008 Certified Management System.

Product Use

VaporBlock® Plus™ 20 resists gas and moisture migration into the building envelop when properly installed to provide protection from toxic/harmful chemicals. It can be installed as part of a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

VaporBlock® Plus™ 20 works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation.

Size & Packaging

VaporBlock® Plus™ 20 is available in 10' x 150' rolls to maximize coverage. All rolls are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.

Under-Slab Vapor/Gas Retarder

Product	Part #
VaporBlock Plus 20	VBP 20

APPLICATIONS

- Radon Barrier
- Methane Barrier
- VOC Barrier
- Under-Slab Vapor Retarder
- Foundation Wall Vapor Retarder

VaporBlock® Plus™
UNDERSLAB VAPOR RETARDER / GAS BARRIER

VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

ISO 9001:2008
CERTIFIED MANAGEMENT SYSTEM

		VAPORBLOCK PLUS 20	
PROPERTIES	**TEST METHOD**	**IMPERIAL**	**METRIC**
APPEARANCE		White/Gold	
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT		102 lbs/MSF	498 g/m²
CLASSIFICATION	ASTM E 1745	CLASS A, B & C	
TENSILE STRENGTH LBF/IN (N/CM) AVERAGE MD & TD (NEW MATERIAL)	ASTM E 154 Section 9 (D-882)	58 lbf	102 N
IMPACT RESISTANCE	ASTM D 1709	2600 g	
MAXIMUM USE TEMPERATURE		180° F	82° C
MINIMUM USE TEMPERATURE		-70° F	-57° C
PERMEANCE (NEW MATERIAL)	ASTM E 154 Section 7 ASTM E 96 Procedure B	0.0051 Perms grains/(ft²·hr·in·Hg)	0.0034 Perms g/(24hr·m²·mm Hg)
RADON DIFFUSION COEFFIECIENT	K124/02/95	< 1.1 x 10^{-13} m²/s	
METHANE PERMEANCE	ASTM D 1434	< 1.7 x 10^{-10} m²/d• atm 0.32 GTR (Gas Transmission Rate) ml/m²•D•ATM	

VaporBlock® Plus™ Placement

All instructions on architectural or structural drawings should be reviewed and followed.
Detailed installation instructions accompany each roll of VaporBlock® Plus™ and can also be located on our website.
ASTM E-1643 also provides general installation information for vapor retarders.

VaporBlock® Plus™
UNDERSLAB VAPOR RETARDER / GAS BARRIER

VaporBlock® Plus™ is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

RAVEN INDUSTRIES

Engineered Films Division
P.O. Box 5107
Sioux Falls, SD 57117-5107
Ph: (605) 335-0174 • Fx: (605) 331-0333

Toll Free: **800-635-3456**
Email: **efdsales@ravenind.com**
www.ravenefd.com

Limited Warranty available at www.RavenEFD.com

March 12, 2014

New York City Office of Environmental Remediation
City Voluntary Cleanup Program
c/o Shaminder Chawla
100 Gold Street, 2nd Floor
New York, NY 10038

Re: 14CVCP157K
1035 Fulton Street
Brooklyn, NY
Remedial Action Work Plan (RAWP) Stipulation List

Dear Ms Bub:

Environmental Business Consultants (EBC or the consultant) hereby submits a Remedial Action Work Plan (RAWP) Stipulation List for the 1035 Fulton Street (the Site) to the New York City Office of Environmental Remediation (OER) on behalf of Fulton Hill Corner LLC. This letter serves as an addendum to the RAWP to stipulate additional content, requirements, and procedures that will be followed during the Site remediation. The contents of this list are added to the RAWP and will supersede the content in the RAWP where there is a conflict in purpose or intent. The additional requirements/procedures include the following Stipulation List below:

1. The criterion attached in **Appendix 1** will be utilized if additional petroleum containing tanks or vessels are identified during the remedial action or subsequent redevelopment excavation activities. All petroleum spills will be reported to the NYSDEC hotline as required by applicable laws and regulations. This contingency plan is designed for heating oil tanks and other small or moderately sized storage vessels. If larger tanks, such as gasoline storage tanks are identified, OER will be notified before this criterion is utilized.

2. A pre-construction meeting is required prior to the start of remedial excavation work at the Site. A pre-construction meeting will be held at the Site and will be attended by OER, the developer or developer representative, the consultant, excavation/general contractor, and if applicable, the soil broker.

3. A pre-approval letter from all disposal facilities will be provided to OER prior to any soil/fill material removal from the Site. Documentation specified in the RAWP - Appendix D - Section 1.6 "Materials Disposal Off-Site" will be provided to OER. If a different disposal facility for the soil/fill material is selected, OER will be notified immediately.

4. A CD containing the final RAWP including this approved Stipulation List will be placed in the library that constitutes the primary public repository for project documents.

5. Signage for the project will include a sturdy placard mounted in a publically accessible right of way to building and other permits signage will consist of the NYC VCP Information Sheet (attached **Appendix 2**) announcing the remedial action. The Information sheet will be laminated and permanently affixed to the placard.

6. This NYC VCP project involving the removal and transportation of hazardous waste may be subject to the New York state Department of Environmental Conservation's Special Assessment Tax (ECL 27-0923) and Hazardous Waste Regulatory Fees (ECL 72-00402). See DEC's website for more information: http://www.dec.ny.gov/chemical/9099.html.

7. Collection and analysis of six post-excavation samples from the bottom of the excavation will be collected to evaluate the performance of the remedy with respect to attainment of Track 1 SCOs. Figure

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

6 indicating End point post-excavation sampling locations is attached in **Appendix 3**. Samples will be analyzed for contaminants of concern (SVOCs, pesticides and metals (lead, mercury and zinc).

8. Truck route is included in **(Appendix 4**).

9. The signed RIR certification page and stamped/signed RAWP certification page is included in **Appendix 5.**

10. **Appendix 6** includes Vapor Barrier Pre-Certification letter from Vapor Barrier manufacturer stating that the proposed vapor barrier system mitigates against the contaminants of concern at the site.

11. OER requires parties seeking City Brownfield Incentive Grants to carry insurance. For a cleanup grant, both the excavator and the trucking firm(s) that handle removal of soil must carry or be covered under a commercial general liability (CGL) policy that provides $1 million per claim in coverage. OER recommends that excavators and truckers also carry contractors pollution liability (CPL) coverage, also providing $1 million per claim in coverage. The CGL policy, and the CPL policy if obtained, must name the City of New York, the NYC Economic Development Corporation, and Brownfield Redevelopment Solutions as additional insured. For an investigation grant, an environmental consultant must be a qualified vendor in the BIG program and carry $1 million of professional liability (PL) coverage. A fact sheet regarding insurance is attached as **Appendix 7**.

12. Daily report will be provided during active excavation work. If no work is performed for extended time period, daily report frequency will be reduced to weekly basis. Daily report template is attached in **Appendix 8**.

13. Revised project description: The proposed future use of the Site will consist of a new 7-story mixed use building. The proposed building will occupy approximately 85% of the Lot and will include a fill cellar. The remaining portions of the Lot will be capped with concrete and utilized as outdoor recreational space. The cellar will be used for commercial space, recreation, storage and utility rooms. Access to the basement is provided via stairwell and elevator. The first floor will be used for commercial and residential recreation space, residential lobby and bicycle storage. The second through seventh floors will all be residential units. The top of the cellar floor will be approximately 10 feet below sidewalk level, requiring excavation of the 85% of the Lot to approximately 11 feet below grade, with additional excavation for the elevator pit to approximately 15 feet below grade. The updated site plans are included in **Appendix 9**.

Sincerely,

Environmental Business Consultants

Kristen DiScenza

cc: S. Chawla, OER

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Fax 631.924.2870

Appendix 1

Generic Procedures for Management of Underground Storage Tanks identified under the NYC BCP

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Fax 631.924.2870

Prior to Tank removal, the following procedures should be followed:

- Remove all fluid to its lowest draw-off point.
- Drain and flush piping into the tank.
- Vacuum out the "tank bottom" consisting of water product and sludge.
- Dig down to the top of the tank and expose the upper half.
- Remove the fill tube and disconnect the fill, gauge, product, vent lines and pumps. Cap and plug open ends of lines.
- Temporarily plug all tank openings, complete the excavation, remove the tank and place it in a secure location.
- Render the tank safe and check the tank atmosphere to ensure that petroleum vapors have been satisfactorily purged from the tank.
- Clean tank or remove to storage yard for cleaning.
- If the tank is to be moved, it must be transported by licensed waste transporter. Plug and cap all holes prior to transport leaving a 1/8 inch vent hole located at the top of the tank during transport.
- After cleaning, the tank must be made acceptable for disposal at a scrap yard, cleaning the tanks interior with a high pressure rinse and cutting the tank in several pieces.

During the tank and pipe line removal, the following field observations should be made and recorded:

- A description and photographic documentation of the tank and pipe line condition (pitting, holes, staining, leak points, evidence of repairs, etc.).
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with a calibrated photoionization detector (PID).

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Impacted Soil Excavation Methods

The excavation of the impacted soil will be performed following the removal of the existing tanks. Soil excavation will be performed in accordance with the procedures described under Section 5.5 of Draft DER-10 as follows:

- A description and photographic documentation of the excavation.
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with calibrated photoionization detector (PID).

Final excavation depth, length, and width will be determined in the field, and will depend on the horizontal and vertical extent of contaminated soils as indentified through physical examination (PID response, odor, staining, etc.). Collection of verification samples will be performed to evaluate the success of the removal action as specified in this document.

The following procedure will be used for the excavation of impacted soil (as necessary and appropriate):

- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan.
- Prior to excavation, ensure that the area is clear of utility lines or other obstructions. Lay plastic sheeting on the ground next to the area to be excavated.
- Using a rubber-tired backhoe or track mounted excavator, remove overburden soils and stockpile, or dispose of, separate from the impacted soil.
- If additional UST's are discovered, the NYSDEC will be notified and the best course of action to remove the structure should be determined in the field. This may involve the continued trenching around the perimeter to minimize its disturbance.
- If physically contaminated soil is present (e.g., staining, odors, sheen, PID response, etc.) an attempt will be made to remove it, to the extent not limited by the site boundaries or the bedrock surface. If possible, physically impacted soil will be removed

using the backhoe or excavator, segregated from clean soils and overburden, and staged on separated dedicated plastic sheeting or live loaded into trucks from the disposal facility. Removal of the impacted soils will continue until visibly clean material is encountered and monitoring instruments indicate that no contaminants are present.

- Excavated soils which are temporarily stockpiled on-site will be covered with tarp material while disposal options are determined. Tarp will be checked on a daily basis and replaced, repaired or adjusted as needed to provide full coverage. The sheeting will be shaped and secured in such a manner as to drain runoff and direct it toward the interior of the property.

Once the site representative and regulatory personnel are satisfied with the removal effort, verification of confirmatory samples will be collected from the excavation in accordance with DER-10.

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Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Appendix 2

Signage

1808 Middle Country Road
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Phone 631.504.6000
Fax 631.924.2870

NYC Voluntary Cleanup Program

This property is enrolled in the New York City Voluntary Cleanup Program for environmental remediation. This is a voluntary program administered by the NYC Office of Environmental Remediation.

For more information, log on to:

www.nyc.gov/oer

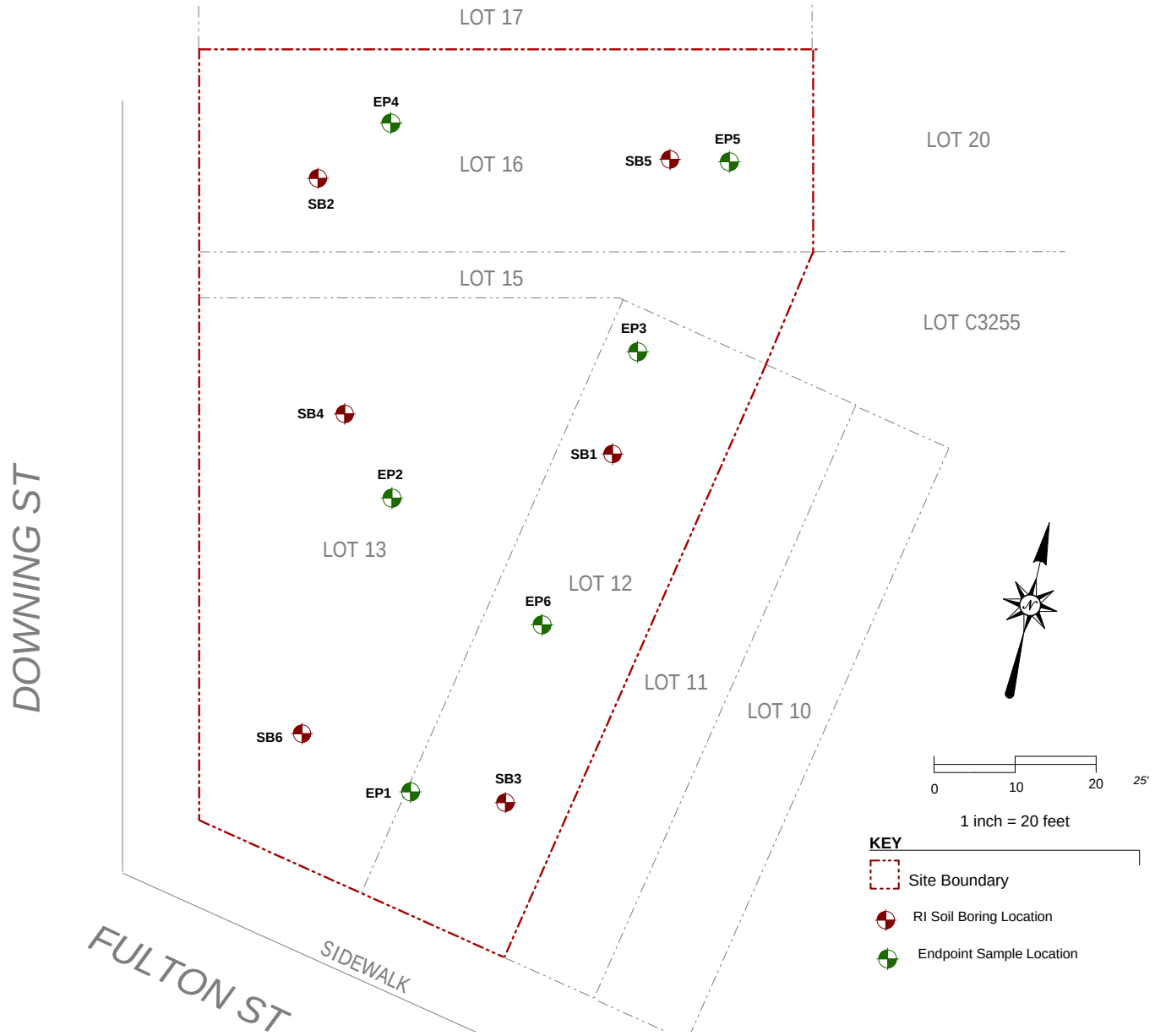
If you have questions or would like more information, please contact:

Shaminder Chawla at (212) 788-8841
or email us at brownfields@cityhall.nyc.gov
1035 Fulton Street
Site #: 14CVCP157K

Addendum 3

Endpoint Sampling Map

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870



EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Phone 631.504.6000
Fax 631.924.2870

1035 FULTON STREET
BROOKLYN, NY 11238

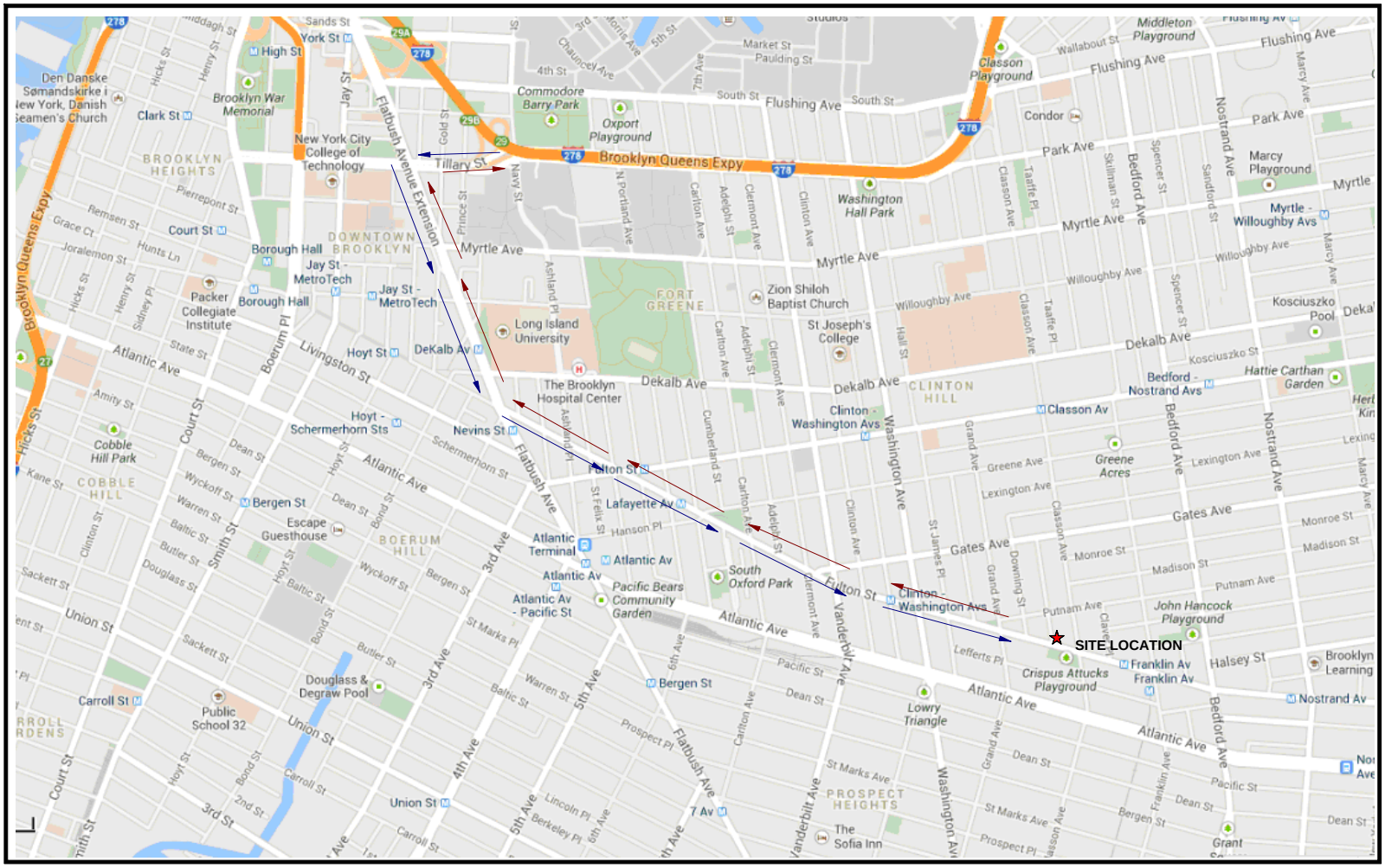
FIGURE 6

ENDPOINT SAMPLING PLAN

Addendum 4

Truck Route

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870



Key

Truck Route to the Site

Truck Route from the Site

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

1808 MIDDLE COUNTRY ROAD, RIDGE, NY 11961

Phone 631.504.6000

Fax 631.924.2780

REDEVELOPMENT PROJECT

1035 FULTON STREET, BROOKLYN

FIGURE 1 TRUCK ROUTES

Addendum 5

RIR and RAWP Certification Page

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

CERTIFICATION

I, Kristen DiScenza, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located at 1035 Fulton Street, Brooklyn, NY, (NYC VCP Site No. 13CVCP157K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Kristen DiScenza	7/11/13	
Qualified Environmental Professional	Date	Signature

CERTIFICATION

I, Ariel Czemerinski, am a Professional Engineer licensed in the State of New York. I have primary direct responsibility for implementation of the remedial action for the Redevelopment Project located at 1035 Fulton Street, Brooklyn NY, Site number 14CVCP157K.

I certify that this Remedial Action Work Plan (RAWP) has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable City, State and Federal laws and regulations. Importation of all soil, fill and other material from off-Site will be in accordance with all applicable City, State and Federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

Ariel Czemerinski

Name

076508

NYS PE License Number

Signature

8/5/2013

Date

PE Stamp

Addendum 6

Compatibility Letter

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

August 5, 2013

Ms. Kristen DiScenza
Environmental Business Consultants
1808 Middle Country Road
Ridge, New York 11961

Dear Ms. DiScenza,

I have reviewed the Remedial Investigation Report (EBC, June 2013) for the remediation/construction project located at 1035 Fulton Street, Brooklyn, NY and noted the contaminants specifically described on the following pages:

Table 2 - Soil Analytical Results (VOCs)
Table 3 - Soil Analytical Results (SVOCs)
Table 4 - Soil Analytical Results (Pesticides/PCBs)
Table 5 - Soil Analytical Results (Metals)
Table 6 - Soil Gas Analytical Results (VOCs)

Figure 6 - Soil Exceedences Map
Figure 7 - Soil Vapor Detections

The identified contaminants at the levels reported will not have an adverse effect on the intended performance of VaporBlock Plus VBP20 as a vapor barrier, provided standard design and application procedures are followed. Standard installation instructions and details can be found on our website at www.ravenefd.com.

If you have any questions, please feel free to call me or send an e-mail.

Sincerely,

Erika Arens
Product Development Specialist
Engineered Films Division
Raven Industries, Inc.
(605) 357-0453
Erika.Arens@ravenind.com

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Addendum 7

Insurance Fact Sheet

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

FACT SHEET – BIG PROGRAM INSURANCE REQUIREMENTS

Investigation Grants – for a developer or site owner to be eligible for a BIG investigation grant, its environmental consultant(s) must be:

- a Qualified Vendor in the BIG Program; and
- maintain Professional Liability (PL) insurance of $1M per claim and annual aggregate.

Cleanup Grants – for a developer or site owner to be eligible for a BIG cleanup grant:

- Its general contractor or excavation/foundation contractor hired to perform remedial work must maintain:

    a. Commercial General Liability(CGL) insurance of at least $1M per occurrence and $2M in the general aggregate; and

    b. Contractors Pollution Liability (CPL) insurance of at least $1M per occurrence.

    Both policies must list the city, EDC and BRS as additional insureds, include completed operations coverage and be primary and non-contributory to any other insurance the additional insureds may have.

- Its subcontractors who are hired by the general contractor etc. to perform remedial work at a site, including soil brokers and truckers, must also maintain CGL and CPL policies in the amount and with the terms set forth above; and

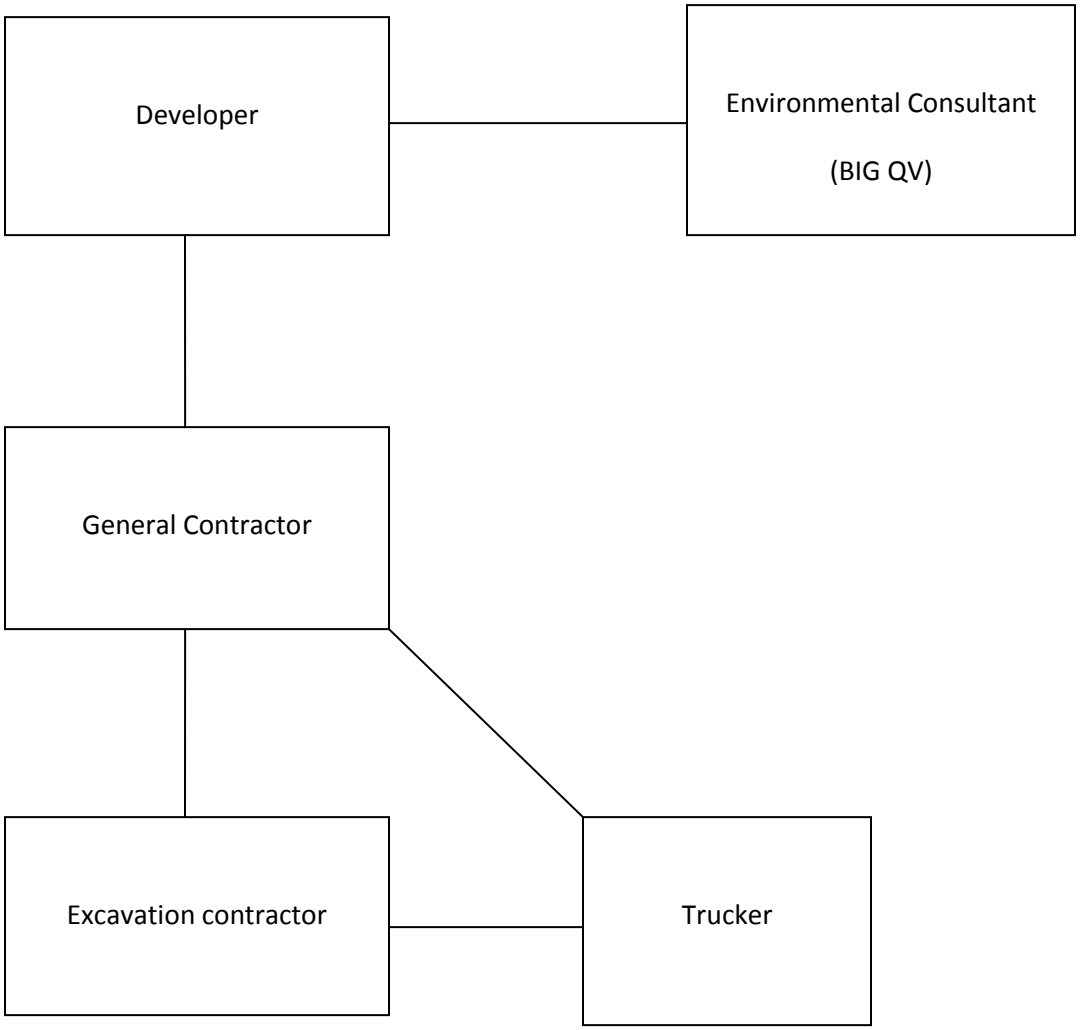
- Its environmental consultant(s) hired to oversee the cleanup must be:
    a. a BIG Qualifed Vendor; and
    b. maintain Professional Liability (PL) insurance of $1M per claim and annual aggregate.

If, in the alternative, the developer hires its environmental consultant to perform the cleanup, the environmental consultant must maintain CGL and CPL insurance in the amount and with the terms set forth above.

A schematic presenting the contractual relationships described above appears on page 2. Parties who must be named as Additional Insureds on Cleanup Grant insurance policies (CGL and CPL) are presented on page 3.

Example of Contractual Relationships for Cleanup Work

The Office of Environmental Remediation's Voluntary Cleanup Plan program requires applicants to identify the parties who are engaged in active remediation of their sites including: the General Contractor hired to remediate and/or the excavation contractor hired to excavate soil from the site and the trucking firm(s) that remove soil from the site for disposal at approved facilit(ies).



The chart above shows contractual relationships that typically exist for projects that are enrolled in the Voluntary Cleanup Program.

BIG Program Additional Insureds

The full names and addresses of the additional insureds required under the Required CGL and Required CPL Policies are as follows:

"City and its officials and employees"
New York City Mayor's Office of Environmental Remediation
253 Broadway, 14th Floor
New York, NY 10007

"NYC EDC and its officials and employees"
New York City Economic Development Corporation
110 William Street
New York, NY 10038

"BIG Grant Administrator and its officials and employees"
Brownfield Redevelopment Solutions, Inc.
739 Stokes Road, Units A & B
Medford, NJ 08055

Addendum 8

Daily Status Report Template

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

DAILY STATUS REPORT

Prepared By: Enter Your Name Here

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	< 32		32-50		50-70	x	70-85		>85	

VCP Project No.:	13CVCP000M	E-Number:	13EHAN000M	Date:	01/01/2013
Project Name:	Name or Address				

Consultant: Person(s) Name and Company Name	Safety Officer: Person(s) Name and Company Name
General Contractor: Person(s) Name and Company Name	Site Manager/ Supervisor: Person(s) Name and Company Name
Work Activities Performed (Since Last Report): Provide details about the work activities performed.	
Working In Grid #: A1, B1, C1	

Samples Collected (Since Last Report): No samples collected or provide details
Air Monitoring (Since Last Report): No air monitoring performed or provide details
Problems Encountered: No problems encountered or provide details
Planned Activities for the Next Day/ Week: Provide details about the work activities planned for the next day/ week.

 File Name: _____

									Example:	
Facility # Name/ Location Type of Waste Solid Or Liquid	Facility # Name Location Type of Waste Solid *Or* Liquid		Facility # Name Location Type of Waste Solid *Or* Liquid		Facility # Name Location Type of Waste Solid *Or* Liquid		Facility # Name Location Type of Waste Solid *Or* Liquid		# # # # # # # Clean Earth Carteret, NJ petroleum soils Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds.
Today									5	120
Total									25	600

NYC Clean Soil Bank		Receiving Facility: Name/ Address (Approved by OER)			
Tracking No.:	13CCSB000				
Today	Trucks 5	Cu. Yds. 25	Total	Trucks 120	Cu. Yds. 600

Site Grid Map

Insert the site grid map here

 File Name: _____

Photo Log

Photo 1 – provide a caption	Insert Photo Here – Photo of the entire site
Photo 2 – provide a caption	Insert Photo Here – Photo of the work activities performed
Photo 3 – provide a caption	Insert Photo Here – Photo of the work activities performed

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Addendum 9

Revised Redevelopment Plans

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

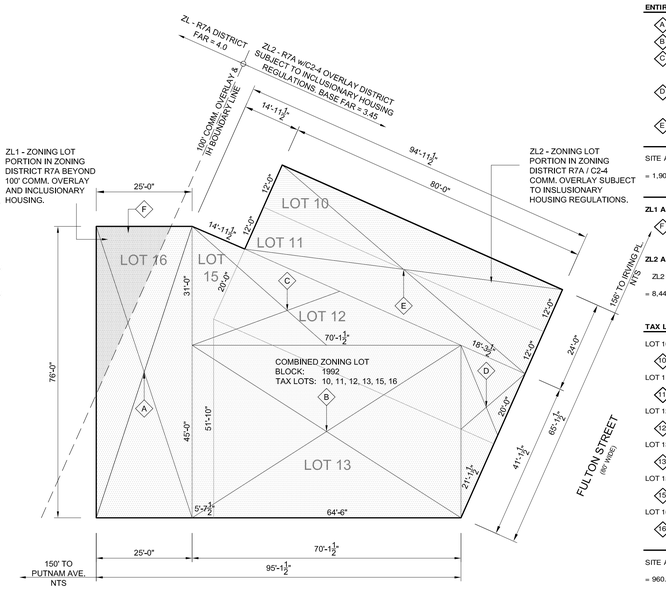
ZONING ANALYSIS:

ADDRESS: 1035 FULTON STREET

TAX BLOCK:		1992
TAX LOTS:		10,11,12,13,15,16
ZONING MAP:		16C
COMMUNITY DISTRICT		BROOKLYN 2
ZONING DISTRICTS:		
ZONING LOT 'ZL1' - SUBJECT TO INTERIOR LOT & NARROW STREET REGULATION:		R7A
ZONING LOT 'ZL2' - SUBJECT TO CORNER LOT AND WIDE STREET REGULATIONS		R7A/C2-4 IH
IH = SUBJECT TO INCLUSIONARY HOUSING PROGRAM (SEE MAP ON Z002)		
SITE AREA:	=	
ZONING LOT 'ZL1' (SEE ZONING LOT AREA DIAGRAMS)	=	426.77 S.F.
ZONING LOT 'ZL2' (SEE ZONING LOT AREA DIAGRAMS)	=	8,018.18 S.F.
TOTAL LOT AREA	=	**8,444.94** S.F.
CONSTRUCTION AREA LOTS 12, 13, 15, 16	=	6,516.94 S.F.
THESE LOTS ARE TO BE COMBINED AND DESIGNATED AS TAX LOT 12 PER RP602		
LOT FRONT / STREET WALL:		
LOT FRONT / STREET LINE ON FULTON STREET	=	65.12' FT
LOT FRONT / STREET LINE ON DOWNING STREET	=	95.12' FT
USE GROUP:		2 + 6

UNDER THIS APPLICATION THE ABOVE MENTIONED TAX LOTS ARE COMBINED INTO ONE ZONING LOT. THE NEW PROPOSED BUILDING WILL BE CONSTRUCTED ON TAX BLOCK 1992 LOTS 12, 13, 15 AND 16 AND SHALL BE DESIGNATED AS BUILDING - 'A'. THERE ARE 2 EXISTING BUILDINGS TO REMAIN FRONTING FULTON STREET - 1039 & 1039A FULTON STREET. 1039 FULTON - THE EXISTING BUILDING ON BLOCK 1992, LOT 10 SHALL BE DESIGNATED AS BUILDING - 'B'
1039A FULTON, THE EXISTING BUILDING ON BLOCK 1992, LOT 11 SHALL BE DESIGNATED AS BUILDING - 'C'
THIS CONSTRUCTION IS DEVELOPED IN COMPLIANCE WITH CHAPTER 3 OF ARTICLE II - RESIDENTIAL REGULATIONS, CHAPTER 3 OF ARTICLE III - BULK REGULATIONS FOR COMMERCIAL BUILDINGS IN COMMERCIAL DISTRICTS, CHAPTER 7 OF ARTICLE VII - PROVISIONS FOR ZONING LOTS DIVIDED BY DISTRICT BOUNDARIES AND THE INCLUSIONARY

ZR-22-00	PROPOSED RESIDENTIAL, USE GP 2 IS ALLOWED "AS OF RIGHT"		
ZR-32-00	PROPOSED COMMERCIAL RETAIL SPACE, USE GROUP 6 IS ALLOWED "AS OF RIGHT"		
ZR-77-20	THE MAX. FAR PERMITTED ON EACH PORTION OF ZONING LOT DIVIDED BY BOUNDARY BETWEEN ZONING DISTRICTS SHALL BE DETERMINED BY THE REGULATIONS OF APPLICABLE DISTRICTS AND COMPUTED BY THE PERCENTAGE OF THE ZONING LOT TO WHICH SUCH FAR		
	MAX. ALLOWABLE FLOOR AREA RATIO CALCULATION		
ZR-23-145	MAX. ALLOWABLE FLOOR AREA RATIO FOR A MIXED USE BUILDING DEVELOPED PURSUANT TO QUALITY HOUSING PROGRAM IN R7A DISTRICT	=	4.0
	'ZL1' PERCENTAGE OF THE ZONING LOT = 426.77 / 8,444.94 x 100	=	5.05%
	'ZL1' ADJUSTED FAR = 4 x 0.05	=	0.20
ZR-23-952	MAX. ALLOWABLE FLOOR AREA RATIO FOR A MIXED USE BUILDING DEVELOPED SUBJECT TO INCLUSIONARY HOUSING PROGRAM IN ZONING DISTRICT R7A/C2-4 IH (WITHOUT FLOOR AREA COMPENSATION)	=	3.45
	'ZL2' PERCENTAGE OF THE ZONING LOT = 8,018.18 / 8,444.94 x 100	=	94.95%
	'ZL2' ADJUSTED FAR = 3.45 x 0.9495	=	3.28
	TOTAL ADJUSTED FAR APPLICABLE TO THE ENTIRE LOT	=	**3.48**
	MAX. ALLOWABLE Z.A. ON THE ENTIRE ZONING LOT = 8,444.94 x 3.48	=	**29,388.39** S.F.
	PROPOSED RESIDENTIAL ZONING AREA BUILDING 'A' AT 1035 FULTON ST.	=	24,118.06 S.F.
	PROPOSED COMMERCIAL USE GROUP 6, BUILDING 'A' AT 1035 FULTON ST.	=	2,525.68 S.F.
	EXISTING ZONING AREA BUILDING 'B' AT 1039 FULTON ST.	=	1,318.38 S.F.
	EXISTING ZONING AREA BUILDING 'C' AT 1039A FULTON ST.		1,281.13 S.F.
	TOTAL PROPOSED ZONING AREA	=	**29,243.24** S.F.
	PROPOSED Z.A.= 29,243.24 < 29,388.39 THEREFORE		**IN COMPLIANCE**
ZR-33-121	MAXIMUM ALLOWABLE COMMERCIAL FLOOR AREA RATIO		
	THE MAXIMUM FAR FOR A COMMERCIAL USE IN R7A DISTRICT APPLICABLE TO 'ZL2' - ZONING DISTRICT R7A/C2-4 IH	=	2.0
	MAX. ALLOWABLE F.A. FOR A COMMERCIAL USE = 8,018.18 x 2.00	=	16,036.36 S.F.
	PROPOSED COMMERCIAL ZONING AREA AT 1035 FULTON STREET	=	2,525.68 S.F.
	EXISTING COMMERCIAL ZONING AREA AT 1039A FULTON STREET	=	645.63
	TOTAL PROPOSED AND EXISTING COMM. Z.A.		**3,171.31**
	3,171.31 < 16,036.36 THEREFORE		**IN COMPLIANCE**
ZR-77-24	THE MAX. PERCENT OF PERMITTED LOT COVERAGE ON EACH PORTION OF ZONING LOT DIVIDED BY BOUNDARY BETWEEN ZONING DISTRICTS SHALL BE DETERMINED BY THE REGULATIONS OF APPLICABLE DISTRICTS AND APPLIED SEPERATELY TO EACH PORTION OF		
ZR-23-145	MAX. ALLOWABLE LOT COVERAGE (SEE DIAGRAM)		
	ZONING LOT IN R7A SUBJECT TO INTERIOR LOT REGULATIONS	=	65.00%
	ZONING LOT IN R7A/C2-4 IH SUBJECT TO CORNER LOT REGULATIONS	=	80.00%
	ZL1 - MAX. ALLOWABLE LOT COVERAGE = 426.77 * 0.65	=	277.40
	ZL2 - MAX. ALLOWABLE LOT COVERAGE = 8,018.18 * 0.80	=	6,414.54
	TOTAL PERMITTED LOT COVERAGE		**6,691.94**
	ZL1 - PROPOSED LOT COVERAGE = 29.47 < 277.40 THEREFORE		**IN COMPLIANCE**
	ZL2 - PROPOSED LOT COVERAGE = 6,164.66 < 6,414.54 THEREFORE		**IN COMPLIANCE**
	TOTAL PROPOSED LOT COVERAGE = 6,194.13 < 6,691.94 THEREFORE		**IN COMPLIANCE**
ZR 23-22	FACTOR FOR DETERMINING MAX. NUMBER OF DWELLING UNITS	=	680
	MAX. ALLOWABLE # OF DWELLING UNITS = MAX. PERMITTED RES. F.A. / 680	=	
	= 29,388.39 (MAX.Z.A.) - 3,171.31 (COMM. Z.A.) / 680	=	39
	TOTAL PROPOSED # OF D.U. = 38 < 39		**IN COMPLIANCE**
ZR 35-22	BUILDINGS IN C2 DISTRICT MAPPED WITHIN R7A, STREET WALL LOCATION AND HEIGHT SETBACK REGULATIONS TO BE DETERMINED BY ZR-35-24		
ZR 35-24 (b)	AT LEAST 70% OF STREET WALL SHALL BE LOCATED WITHIN 8 FT. OF STREET LINE AND SHALL EXTEND TO THE MIN. BASE HEIGHT PER 35-24 TABLE A. STREET WALL LOCATION PROVISION APPLIES ONLY ALONG ONE STREET ON CORNER LOTS.		
	PROVIDED STREET WALL ON DOWNING STREET (100% OF STREET LINE)	=	95.12'
			IN COMPLIANCE
ZR 35-24	MIN. BASE HEIGHT FOR R7A / C2-4 DISTRICT	=	40
TABLE 'A'	MAX. BASE HEIGHT FOR R7A / C2-4 DISTRICT	=	65
	MAX. ALLOWABLE BUILDING HEIGHT FOR R7A / C2-4 DISTRICT	=	80
	PROPOSED BUILDING HEIGHT = 80'-0" (SEE ZONING SECTIONS ON Z003)		**IN COMPLIANCE**
ZR-23-32	LOT AREA & LOT WIDTH REGULATIONS		
	MIN. REQUIRED LOT AREA = 1,700		
	PROPOSED LOT AREA = 8,444.94 > 1,700		**IN COMPLIANCE**
	MIN. LOT WIDTH = 18'		
	PROPOSED LOT WIDTH ON FULTON STREET = 65.12' > 18'		**IN COMPLIANCE**
	PROPOSED LOT WIDTH ON DOWNING STREET = 95.12' > 18'		**IN COMPLIANCE**
ZR-23-45	FRONT YARD NOT REQUIRED		
	SIDE YARD NOT REQUIRED		
ZR-23-541	REAR YARD IS NOT REQUIRED FOR A ZONING LOT WITHIN 100 FEET OF CORNER.		**IN COMPLIANCE**
ZR-33-42	PERMITTED OBSTRUCTIONS - FOR C2 DISTRICT MAPPED WITHIN R7A, DORMERS PURSUANT TO ZR-23-621 (C) ARE PERMITTED OBSTRUCTIONS IN REQUIRED SET-BACK.		
ZR-23-621 (c)	PROPOSED DORMERS OVER BASE HEIGHT ON FULTON STREET AND ON DOWNING STREET ARE IN COMPLIANCE WITH THE PERMITTED OBSTRUCTIONS (SEE DIAGRAMS ON Z003)		
ZR-23-84	COURT REGULATIONS		
	MIN. SIZE OF INNER COURT = 1,200 S.F. WITH MIN. 30' DIMENSION		
	PROPOSED INNER COURT = 820"(L) x 300"(D) = 2,460 S.F. > 1,200 S.F.		**IN COMPLIANCE**
	OUTER COURT - (SEE DORMER DIAGRAM ON Z003)		
ZR-23-861	MIN. DISTANCE BETWEEN WINDOWS AND LOT LINE = 30'.		
	PROPOSED MIN. DISTANCE FROM WINDOW TO LOT LINE IS 30' O.K.		
ZR-25-23	REQUIRED PARKING		
	PARKING REQUIREMENT FOR R7A / C2-4 FOR USE GROUP 2	=	50.00%
ZR-25-241	WAIVER OF REQUIREMENTS FOR ZONING LOTS < 10,000 S.F. IN R7A	=	30.00%
	REQUIRED NUMBER OF PARKING SPACES FOR RESIDENTIAL = 38 x 0.3	=	11.40 SPACES
ZR-36-33	IN C2-4 FOR RESIDENCES THE NUMBER OF REQUIRED PARKING FACILITIES IS IN ACCORDANCE WITH ZR 25-23 ABOVE AND MODIFICATIONS BELOW.		
ZR-36-21	REQUIRED PARKING SPACES FOR COMMERCIAL USE IN C2-4	=	1 PER 1000 S.F.
	REQUIRED PARKING FOR COMMERCIAL = 3,171.31 (TOTAL CM) / 1000	=	3.17 SPACES
	TOTAL REQUIRED NUMBER OF PARKING SPACES =3.17 + 11.4	=	15 SPACES
ZR-25-261	WAIVER OF REQUIREMENTS FOR SMALL NUMBER OF SPACES IN R7A	=	15
	REQUIRED NUMBER OF SPACES (15) <= 15 THEREFORE		**WAIVED**
ZR36-36	WAIVER OF REQUIREMENTS FOR SMALL NUMBER OF SPACES IN C2-4 IS SAME AS IN ZR-25-261 ABOVE THEREFORE		**WAIVED**
ZR36-62	REQUIRED ACCESSORY OFF STREET LOADING BERTH		
	C2-4 MAPPED IN R7A NONE REQUIRED FOR THE FIRST 25,000 S.F. OF PROVIDED COMM.		
	TOTAL PROPOSED AND EXISTING COMMERCIAL ZONING AREA ON ENTIRE SITE = 3,171.31 S.F. 3,171.31 < 25,000 S.F. THEREFORE NONE REQUIRED => NONE PROVIDED		**IN COMPLIANCE**
ZR-25-81	REQUIRED BICYCLE PARKING SPACES USE GROUP 2 = 1 PER 2 DWELLING UNITS		
	REQUIRED FOR BUILDING A = 35 D.U. x 50%	=	18
	MINIMUM REQUIRED SIZE PER BIKE = 15 S.F. x 18 SPACES	=	270.00
	PROVIDED BICYCLE STORAGE ROOM ON FIRST FLOOR	=	272.05
	PROPOSED BICYCLE PARKING = 272.05 >= 270		**IN COMPLIANCE**
CHAPTER 8:	THE QUALITY HOUSING PROGRAM		
ZR-28-33	REQUIRED ONE STREET TREE FOR EVERY 25' OF STREET FRONTAGE PER ZR 26-41.		
	LOT FRONTAGE ON FULTON STREET	=	65.12'
	REQUIRED # STREET TREES 65.12 / 25	=	3
	LOT FRONTAGE ON DOWNING STREET	=	95.12' S.F.
	REQUIRED # STREET TREES 95.12 / 25	=	4
	TOTAL NUMBER OF REQUIRED STREET TREES	=	7
	PROPOSED NUMBER OF TREES ON FULTON STREET	=	2
	PROPOSED NUMBER OF TREES ON DOWNING STREET	=	3
	PROPOSED NUMBER OF TREES TO BE PLANTED AT ALTERNATIVE LOCATION	=	2
	TOTAL PROPOSED NUMBER OF STREET TREES = 7		**IN COMPLIANCE**
ZR-28-20	MIN. SIZE OF D.U. IS LARGER THAN 400 S.F. ; **IN COMPLIANCE**		
ZR-28-22	ALL WINDOWS ARE DOUBLE GLAZED ; **IN COMPLIANCE**		
ZR-28-23	ONE ENCLOSED REFUSE STORAGE IS REQUIRED AND PROVIDED @ EACH FLOOR.		
	REFUSE STORAGE & REMOVAL ROOM IS REQUIRED @ 2.9 C.F. / D.U. = 35 x 2.1= 101.5 C.F.		
	PROVIDED TRASH COMPACTOR ROOM AT CELLAR = 966 C.F. > 101.5		**IN COMPLIANCE**
ZR-28-24	AT LEAST ONE WASHING MACHINE REQUIRED PER 20 D.U. = 49 /20 ~ 3 WASHING MACHINES		
	AT LEAST ONE DRYER REQUIRED PER 40 D.U.		
	5 WASHING MACHINES AND 5 DRYERS ARE PROVIDED AT LAUNDRY ROOM IN CEL		**IN COMPLIANCE**
ZR-28-31	RECREATION SPACE IS REQUIRED AND PROVIDED AT FIRST FLOOR		
	MIN. REQUIRED AREA OF RECREATION = 24,118.06 x 3.3%	=	795.90 S.F.
	PROVIDED RECREATION AREA AT FIRST FLOOR	=	802.35 S.F.
	802.35 > 795.90		**IN COMPLIANCE**
	NOTE: ONLY 788.00 ARE EXCLUDED FROM THE RESIDENTIAL ZONING AREA.		
ZR-28-25	WHERE MORE THAN 50% OF CORRIDOR AREA HAS DIRECT VIEW LINE TO A WINDOW OF MIN. 20 SQ.FT. THAT CORRIDOR IS 50% DEDUCTABLE.		
ZR-28-41	CORRIDORS SERVING LESS THAN 11 D.U. ARE 50% DEDUCTABLE.		



SITE AREA DIAGRAM
SCALE 1/16"=1'-0"

ENTIRE SITE AREA CALCULATIONS (LOTS 10, 11, 12, 13, 15, 16)

A	25' - 0"	x	76' - 0"	=	1,900.00	SQ.FT.
B	70' - 1.5"	x	45' - 0"	=	3,162.40	SQ.FT.
C	70' - 1.5" / 2	x	31' - 0"	=	1,086.61	SQ.FT.
D	41' - 1.5" / 2	x	18' - 3.5"	=	375.93	SQ.FT.
E	24' - 0"	x	80' - 0"	=	1,920.00	SQ.FT.

SITE AREA = A + B + C + D + E = **8,444.94** SQ.FT.
= 1,900.00 + 3,162.40 + 1,086.61 + 375.93 + 1,920.00

ZL1 AREA - ZONING LOT PORTION IN DISTRICT R7A

F	43' - 9.5" / 2	x	19' - 6"	=	**426.77**	SQ.FT.

ZL2 AREA - ZONING LOT PORTION IN DISTRICT R7A/C2-4 IH

ZL2 AREA = A + B + C + D + E - F = **8,018.18** SQ.FT.
= 8,444.94 - 426.77

TAX LOTS AREA CALCULATIONS

LOT 10 AREA CALCULATIONS (1039A FULTON ST.)

G	12' - 0"	x	80' - 0"	=	960.00	SQ.FT.

LOT 11 AREA CALCULATIONS (1039 FULTON ST.)

H	12' - 0"	x	80' - 0"	=	960.00	SQ.FT.

LOT 12 AREA CALCULATIONS (1035 FULTON ST.)

G	20' - 0"	x	80' - 0"	=	1,600.00	SQ.FT.

LOT 13 AREA CALCULATIONS (1035 FULTON ST.)

I3	SEE DIAGRAM			=	2,516.29	SQ.FT.

LOT 15 AREA CALCULATIONS (1035 FULTON ST.)

G	SEE DIAGRAM			=	508.65	SQ.FT.

LOT 16 AREA CALCULATIONS (1035 FULTON ST.)

I6	25' - 0"	x	76' - 0"	=	1,900.00	SQ.FT.

SITE AREA = 10 + 11 + 12 + 13 + 15 + = **8,444.94** SQ.FT.
= 960.00 + 960.00 + 1,600.00 + 2,516.29 + 508.65 + 1,900.00

TAX LOT 13 AREA CALCULATIONS

A	80' - 0" / 2	x	21' - 1.5"	=	845.20	SQ.FT.
B	64' - 6" / 2	x	51' - 10"	=	1,671.09	SQ.FT.

TAX LOT 13 AREA = A + B = **2,516.29** SQ.FT.
= 844.78 + 1,671.09

TAX LOT 15 AREA CALCULATIONS

C	14' - 11.5" / 2	x	20' - 0"	=	149.38	SQ.FT.
D	5' - 7.5" / 2	x	24' - 2"	=	67.72	SQ.FT.
E	5' - 7.5"	x	51' - 10"	=	291.56	SQ.FT.

TAX LOT 15 AREA = C + D + E = **508.65** SQ.FT.
= 150.28 + 67.81 + 290.48

LOT COVERAGE CALCULATIONS

ZL1 - LOT COVERAGE CALCULATION

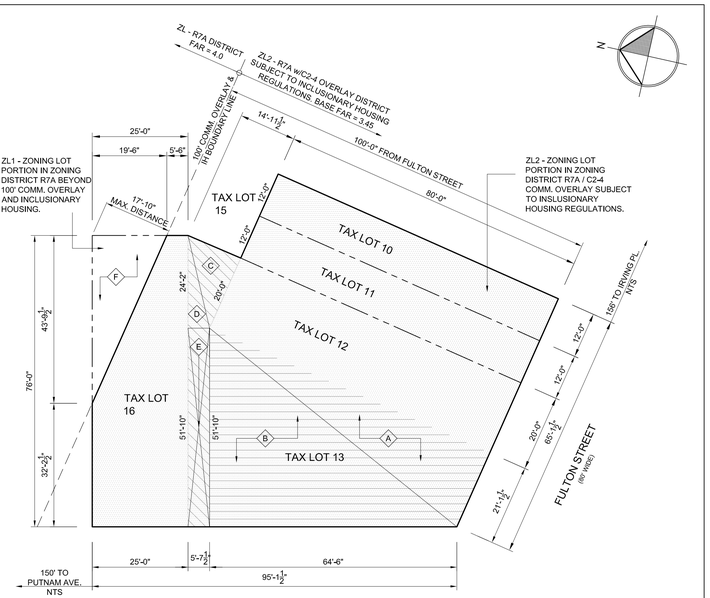
J	5' - 1.5" / 2	x	11' - 6"	=	29.47	SQ.FT.

ZL1 - LOT COVERAGE = **29.47** SQ.FT.

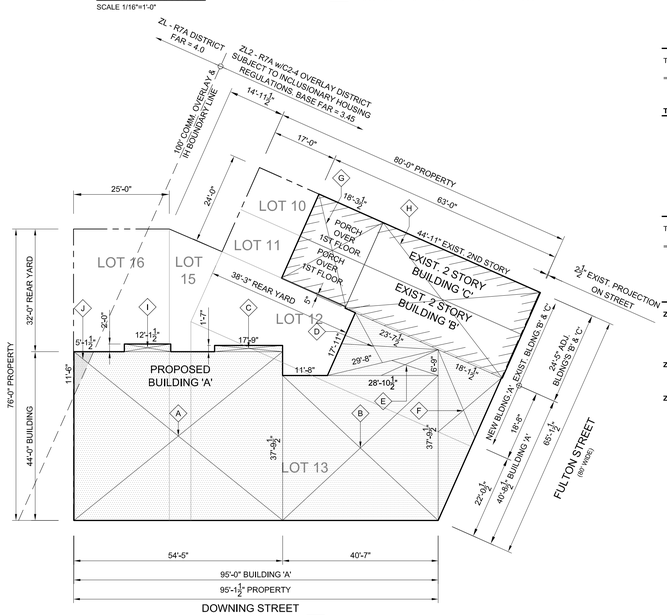
ZL2 - LOT COVERAGE CALCULATION

A	54' - 5"	x	44' - 0"	=	2,394.33	SQ.FT.
B	40' - 7"	x	37' - 9.5	=	1,533.71	SQ.FT.
C	17' - 9"	x	1' - 7"	=	28.10	SQ.FT.
D	23' - 7.5" / 2	x	17' - 11"	=	211.64	SQ.FT.
E	28' - 10.5" / 2	x	6' - 9"	=	97.45	SQ.FT.
F	18' - 1.5" / 2	x	40' - 8.5"	=	368.92	SQ.FT.
G	18' - 3.5"	x	24' - 0"	=	439.00	SQ.FT.
H	44' - 11"	x	24' - 5"	=	1,096.72	SQ.FT.
I	12' - 1.5	x	2' - 0"	=	24.25	SQ.FT.
J	5' - 1.5" / 2	x	11' - 6"	=	29.47	SQ.FT.

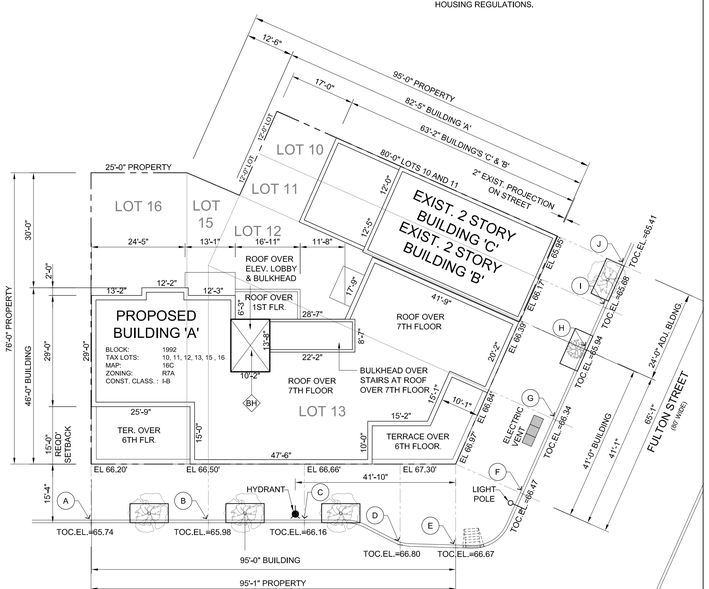
ZL2 - LOT COVERAGE = A+B+C+D+E+F+G+H+I+J =
= 2,394.33+ 1,533.71+ 28.10+ 211.64+ 97.45+
+ 368.92+ 439.00+ 1,096.72+ 24.25- 29.47 = **6,164.66** SQ.FT.



ZONING LOT AREA DIAGRAMS
SCALE 1/16"=1'-0"



LOT COVERAGE DIAGRAM
SCALE 1/16"=1'-0"



SITE & ROOF PLANS
SCALE 1/16"=1'-0"

SUMMARY OF FLOOR AREAS

SUMMARY OF FLOOR AREAS BUILDING 'A' AT 1035 FULTON ST.													BLDNG 'B' 1039 FULTON		BLDNG 'C' 1039A FULTON		TOTAL Z.A.		
FLR.	GROSS AREA	RES. G. AREA	QUALITY HOUSING DEDUCTIONS CORR. 50%	CORR. 100%	REFUSE ST.	RECREATION	MECH. DEDUCT.	EXT. WALLS DEDUCT.	BICYCLE ST. EXEMPTION	COMM. Z. AREA	RES. Z. AREA	1035 FULTON Z. AREA	RES. Z. AREA	COMM. Z. AREA	RES. Z. AREA	COMM. Z. AREA	TOTAL RES. Z. AREA	TOTAL COMM. Z. AREA	RESIDENTIAL+ COMMERCIAL
CELLAR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
1ST	4,604.33	1,808.65	0.00	464.41	5.56	788.00	1.07	116.35	270.00	2,525.68	433.26	2,958.94	763.25		99.00	645.63	1,295.51	3,171.31	4,466.82
2ND	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39	555.13		536.50		5,105.02		5,105.02
3RD	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
4TH	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
5TH	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
6TH	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
7TH	3,774.58	3,774.58	104.23	0.00	17.56		62.68	120.76			3,469.36	3,469.36					3,469.36		3,469.36
ROOF	148.51	148.51	NA	NA	NA	NA	NA	NA	NA	NA	148.51	148.51					148.51		148.51
TOTAL	**31,118.30**	**28,322.61**	**104.23**	**2,031.47**	**110.92**	**788.00**	**471.51**	**698.42**	**270.00**	**2,525.68**	**24,118.06**	**26,643.74**	**1,318.38**	**0.00**	**635.50**	**645.63**	**26,071.94**	**3,171.31**	**29,243.24**

LEGEND: BDRM. - BEDROOM; DU - DWELLING UNIT; RES - RESIDENTIAL; CORR - CORRIDOR; GA - GROSS AREA; COMM. - COMMERCIAL; IH - INCLUSIONARY HOUSING

SCHEDULE OF DWELLING UNITS

SCHEDULE OF D.U.'S 1035 FULTON ST. FLR.	DWELLING UNITS 2 BDRM.	1 BDRM.	STUDIO	NUMBER OF DU	# OF D.U. 1039 FULTON	# OF D.U. 1039A FULTON	TOTAL NUMBER OF D.U.'S
CELLAR					NA	NA	
1ST	0	0	0	0	1		1
2ND	2	3	1	6	1	1	8
3RD	2	3	1	6			6
4TH	2	3	1	6			6
5TH	2	3	1	6			6
6TH	2	3	1	6			6
7TH	3	1	1	5			5
ROOF	NA	NA	NA	NA			
TOTAL	**13**	**16**	**6**	**35**	**2**	**1**	**38**

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

DATUM EL. / BASE PLANE EL. CALCULATION

AS PER SURVEY DATED DATED 12/10/2012

DOWNING ST. LENGTH		FULTON ST. LENGTH	
95' - 1.5"		65' - 1.5"	
MARK	EL.	MARK	EL.
A	65.74	F	66.47
B	65.98	G	66.34
C	66.16	H	65.94
D	66.80	I	65.85
E	66.67	J	65.68
AVERAGE EL.	**66.27**		**66.06**

[A thru J) / 5] x 95'-1.5" + [(F thru / 5] x 65'-1.5"
95'-1.5" + 65'-1.5"
= (66.27 x 95'-1.5") + (66.06 x 65'-1.5") = **66.18**
160'-3"

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: bilevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York, NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ZONING ANALYSIS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4. 5.	Z001.00

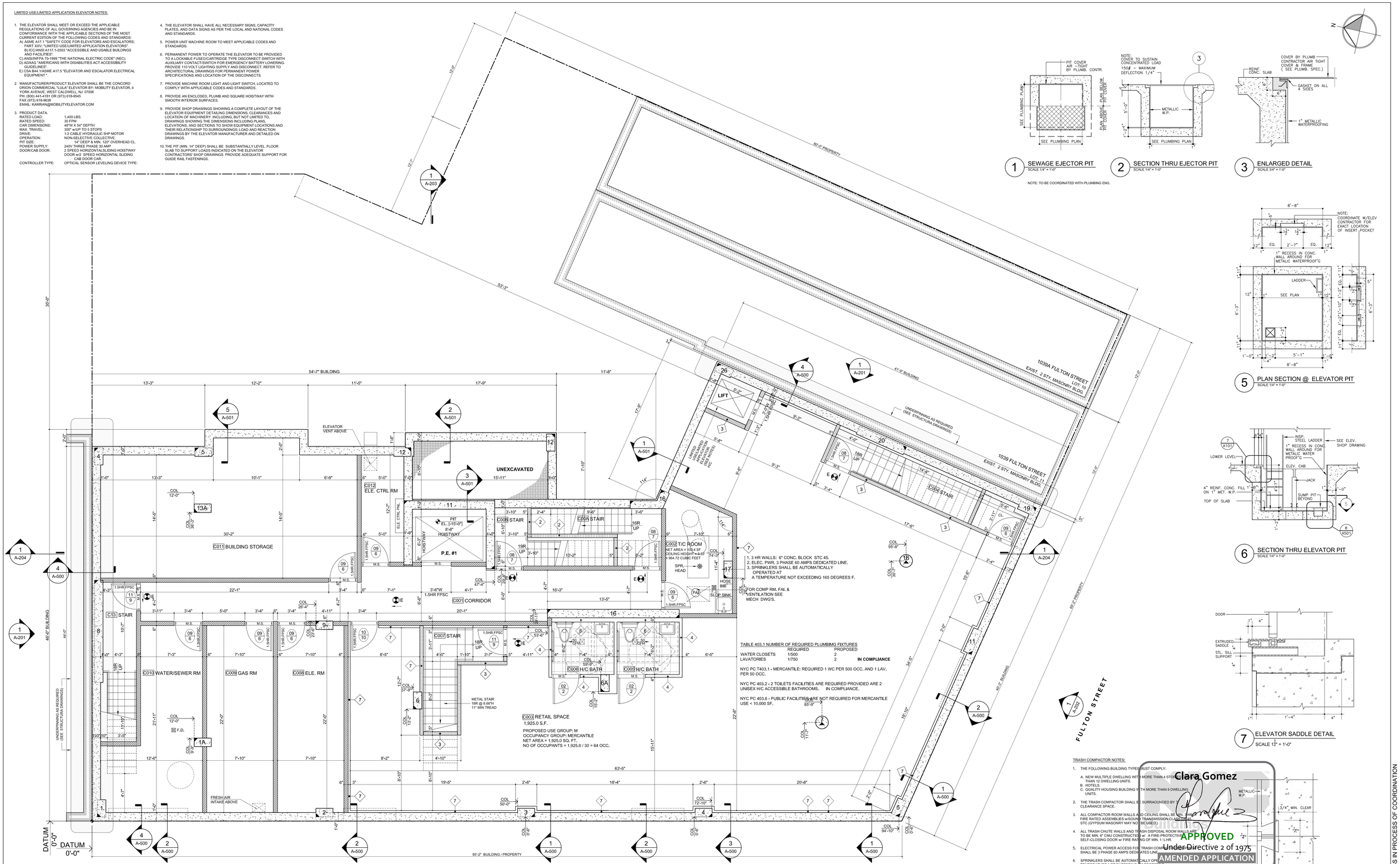
DEPT OF BLDGS 500991739 Job Number
E581671489 Scan Code

LIMITED USE/LIMITED APPLICATION ELEVATOR NOTES:

1. THE ELEVATOR SHALL MEET OR EXCEED THE APPLICABLE REGULATIONS OF ALL GOVERNING AGENCIES AND BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT EDITION OF THE FOLLOWING CODES AND STANDARDS:
   A) ASME A17.1 "SAFETY CODE FOR ELEVATORS AND ESCALATORS: PART XXV; "LIMITED USE/LIMITED APPLICATION ELEVATORS".
   B) ICC/ANSI A117.1-2003 "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".
   C) ANSI/NFPA 70-1999 "THE NATIONAL ELECTRIC CODE" (NEC)
   D) ADA/ADAA "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES".
   E) CSA B44.1/ASME A17.5 "ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT ".
2. MANUFACTURER/PRODUCT.ELEVATOR SHALL BE THE CONCORD ORION COMMERCIAL "LULA" ELEVATOR BY: MOBILITY ELEVATOR, 4 YORK AVENUE, WEST CALDWELL, NJ 07006
   PH: (800) 441-4161 OR (973) 618-9645
   FAX (973) 618-0638
   EMAIL: KAMRAN@MOBILITYELEVATOR.COM
3. PRODUCT DATA.

RATED LOAD:	1,400 LBS.
RATED SPEED:	30 FPM
CAR DIMENSIONS:	48"W X 54" DEPTH
MAX. TRAVEL:	300" w/UP TO 5 STOPS
DRIVE:	1-2 CABLE HYDRAULIC 5HP MOTOR
OPERATION:	NON-SELECTIVE COLLECTIVE.
PIT SIZE:	14" DEEP & MIN. 120" OVERHEAD CL.
POWER SUPPLY:	240V THREE PHASE 30 AMP
DOOR/CAB DOOR:	2 SPEED HORIZONTAL SLIDING HOISTWAY DOOR w/2 SPEED HORIZONTAL SLIDING CAB DOOR CAR.
CONTROLLER TYPE:	OPTICAL SENSOR LEVELING DEVICE TYPE:

4. THE ELEVATOR SHALL HAVE ALL NECESSARY SIGNS, CAPACITY PLATES, AND DATA SIGNS AS PER THE LOCAL AND NATIONAL CODES AND STANDARDS.
5. POWER UNIT MACHINE ROOM TO MEET APPLICABLE CODES AND STANDARDS.
6. PERMANENT POWER TO OPERATE THE ELEVATOR TO BE PROVIDED TO A LOCKABLE FUSED/CARTRIDGE TYPE DISCONNECT SWITCH WITH AUXILIARY CONTACT/SWITCH FOR EMERGENCY BATTERY LOWERING. PROVIDE 110 VOLT LIGHTING SUPPLY AND DISCONNECT. REFER TO ARCHITECTURAL DRAWINGS FOR PERMANENT POWER SPECIFICATIONS AND LOCATION OF THE DISCONNECTS.
7. PROVIDE MACHINE ROOM LIGHT AND LIGHT SWITCH, LOCATED TO COMPLY WITH APPLICABLE CODES AND STANDARDS.
8. PROVIDE AN ENCLOSED, PLUMB AND SQUARE HOISTWAY WITH SMOOTH INTERIOR SURFACES.
9. PROVIDE SHOP DRAWINGS SHOWING A COMPLETE LAYOUT OF THE ELEVATOR EQUIPMENT DETAILING DIMENSIONS, CLEARANCES AND LOCATION OF MACHINERY. INCLUDING, BUT NOT LIMITED TO, DRAWINGS SHOWING THE DIMENSIONS INCLUDING PLANS, ELEVATIONS, AND SECTIONS TO SHOW EQUIPMENT LOCATIONS AND THEIR RELATIONSHIP TO SURROUNDINGS; LOAD AND REACTION DRAWINGS BY THE ELEVATOR MANUFACTURER AND DETAILED ON DRAWINGS.
10. THE PIT (MIN. 14" DEEP) SHALL BE SUBSTANTIALLY LEVEL. FLOOR SLAB TO SUPPORT LOADS INDICATED ON THE ELEVATOR CONTRACTORS' SHOP DRAWINGS. PROVIDE ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS.



1, 3 HR WALLS: 6" CONC. BLOCK STC 45.
2. ELEC. PWR. 3 PHASE 60 AMPS DEDICATED LINE.
3. SPRINKLERS SHALL BE AUTOMATICALLY OPERATED AT A TEMPERATURE NOT EXCEEDING 165 DEGREES F.

FOR COMP RM, FAI, & VENTILATION SEE MECH DWG'S.

TABLE 403.1 NUMBER OF REQUIRED PLUMBIMG FIXTURES

	REQUIRED	PROPOSED	
WATER CLOSETS	1/500	2	
LAVATORIES	1/750	2	IN COMPLIANCE

NYC PC T403.1 - MERCANTILE: REQUIRED 1 WC PER 500 OCC. AND 1 LAV. PER 50 OCC.

NYC PC 403.2 - 2 TOILETS FACILITIES ARE REQUIRED PROVIDED ARE 2 UNISEX H/C ACCESSIBLE BATHROOMS. IN COMPLIANCE.

NYC PC 403.6 - PUBLIC FACILITIES ARE NOT REQUIRED FOR MERCANTILE USE < 10,000 SF.

CELLAR PLAN
GROSS AREA: 6,339.5 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +56.54' [-10'-0"]

1 SEWAGE EJECTOR PIT SCALE 1/4" = 1'-0"
2 SECTION THRU EJECTOR PIT SCALE 1/4" = 1'-0"
3 ENLARGED DETAIL SCALE 3/4" = 1'-0"

NOTE: TO BE COORDINATED WITH PLUMBING ENG.

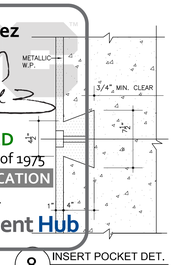
5 PLAN SECTION @ ELEVATOR PIT SCALE 1/4" = 1'-0"

6 SECTION THRU ELEVATOR PIT SCALE 1/4" = 1'-0"

7 ELEVATOR SADDLE DETAIL SCALE 12" = 1'-0"

TRASH COMPACTOR NOTES:

1. THE FOLLOWING BUILDING TYPES MUST COMPLY:
   A. NEW MULTIPLE DWELLING WITH MORE THAN 4 STORIES AND MORE THAN 12 DWELLING UNITS.
   B. HOTELS.
   C. QUALITY HOUSING BUILDING WITH MORE THAN 9 DWELLING UNITS.
2. THE TRASH COMPACTOR SHALL BE SURROUNDED BY 3/4" MIN. CLEARANCE SPACE.
3. ALL COMPACTOR ROOM WALLS AND CEILING SHALL BE MIN. THREE HOUR FIRE RATED ASSEMBLIES w/SOUND TRANSMISSION CLASS (STC) AS STC (GYPSUM MASONRY MAY NOT BE USED.)
4. ALL TRASH CHUTE WALLS AND TRASH DISPOSAL ROOM WALLS SHALL BE TO BE MIN. 6" CMU CONSTRUCTION w/ A FIRE-PROTECTIVE COATING. SELF-CLOSING DOOR w/ FIRE RATING OF MIN. 1 ½ HR.
5. ELECTRICAL POWER ACCESS FOR TRASH COMPACTOR SHALL BE 3 PHASE SHALL BE 3 PHASE 60 AMPS DEDICATED LINE.
6. SPRINKLERS SHALL BE AUTOMATICALLY OPERATED AT A TEMPERATURE NOT EXCEEDING 165 DEGREES F.
7. PROVIDE FRESH AIR INTAKE VIA MECHANICAL VENTILATION OR A WINDOW DUCT.
8. WITHIN TRASH COMPACTOR ROOM FLOOR SHALL BE SLOPED TO A DRAIN CONNECTED TO THE BUILDING DRAIN SYSTEM AS SHOWN ON PLUMBING DWG'S.
9. MECHANICAL EQUIPMENT SPACES AND SHAFTS WITH AN STC OF 50, AND INCINERATOR CHARGING CHUTES MUST COMPLY WITH 27-770(A)(2) AND (B).



8 INSERT POCKET DET. SCALE 12" = 1'-0"

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

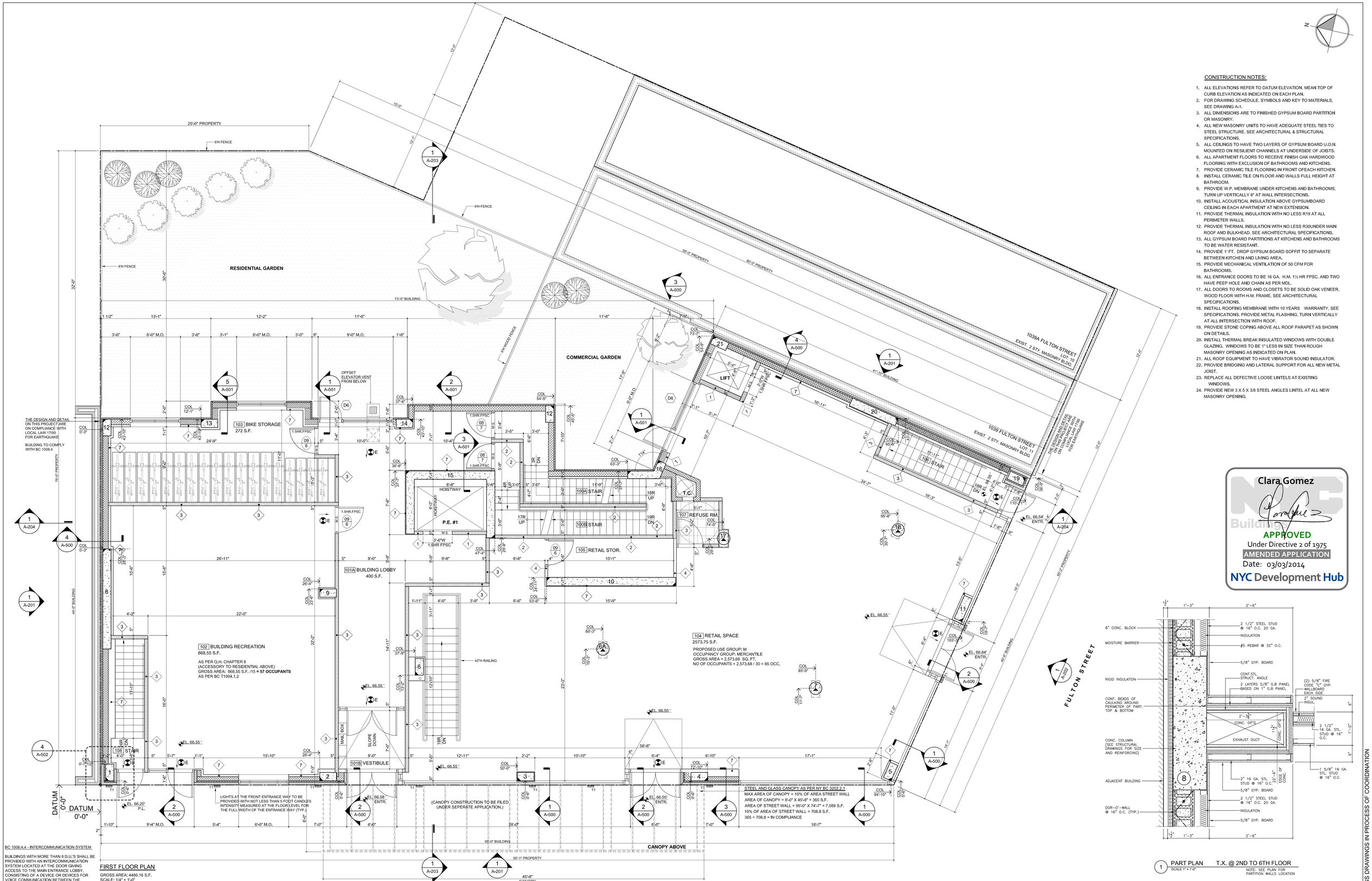
PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: tblevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CELLAR PLAN SCALE: AS SHOWN	1. ISSUED 06-19-2013 2. REV. 12-11-2013 3. 4.	A-101.00

REGISTERED ARCHITECT ANTHONY ISSAC No. 016238 STATE OF NEW YORK

NAME: S:\ALLWORKS\1035 FULTON STREET\PRES\ARCHITECTURAL\2013-12-09 FILING SET NO DOUBLE RETAIL\A101-104.DWG DATE: DEC 17, 2013 TIME: 5:49 PM

DEPT OF BLDGS 520991739 Job Number | E324567456 3 Scan Code



CONSTRUCTION NOTES:

1. ALL ELEVATIONS REFER TO DATUM ELEVATION, MEAN TOP OF CURB ELEVATION AS INDICATED ON EACH PLAN.
2. FOR DRAWING SCHEDULE, SYMBOLS AND KEY TO MATERIALS, SEE DRAWING A-1.
3. ALL DIMENSIONS ARE TO FINISHED GYPSUM BOARD PARTITION OR MASONRY.
4. ALL NEW MASONRY UNITS TO HAVE ADEQUATE STEEL TIES TO STEEL STRUCTURE, SEE ARCHITECTURAL & STRUCTURAL SPECIFICATIONS.
5. ALL CEILINGS TO HAVE TWO LAYERS OF GYPSUM BOARD U.O.N. MOUNTED ON RESILIENT CHANNELS AT UNDERSIDE OF JOISTS.
6. ALL APARTMENT FLOORS TO RECEIVE FINISH OAK HARDWOOD FLOORING WITH EXCLUSION OF BATHROOMS AND KITCHENS.
7. PROVIDE CERAMIC TILE FLOORING IN FRONT OFEACH KITCHEN.
8. INSTALL CERAMIC TILE ON FLOOR AND WALLS FULL HEIGHT AT BATHROOM.
9. PROVIDE W.P. MEMBRANE UNDER KITCHENS AND BATHROOMS, TURN UP VERTICALLY 8" AT WALL INTERSECTIONS.
10. INSTALL ACOUSTICAL INSULATION ABOVE GYPSUMBOARD CEILING IN EACH APARTMENT AT NEW EXTENSION.
11. PROVIDE THERMAL INSULATION WITH NO LESS R19 AT ALL PERIMETER WALLS.
12. PROVIDE THERMAL INSULATION WITH NO LESS R30UNDER MAIN ROOF AND BULKHEAD. SEE ARCHITECTURAL SPECIFICATIONS.
13. ALL GYPSUM BOARD PARTITIONS AT KITCHENS AND BATHROOMS TO BE WATER RESISTANT.
14. PROVIDE 1' FT. DROP GYPSUM BOARD SOFFIT TO SEPARATE BETWEEN KITCHEN AND LIVING AREA.
15. PROVIDE MECHANICAL VENTILATION OF 50 CFM FOR BATHROOMS.
16. ALL ENTRANCE DOORS TO BE 16 GA. H.M. 1½ HR FPSC. AND TWO HAVE PEEP HOLE AND CHAIN AS PER MDL.
17. ALL DOORS TO ROOMS AND CLOSETS TO BE SOLID OAK VENEER, WOOD FLOOR WITH H.M. FRAME, SEE ARCHITECTURAL SPECIFICATIONS.
18. INSTALL ROOFING MEMBRANE WITH 10 YEARS WARRANTY, SEE SPECIFICATIONS. PROVIDE METAL FLASHING, TURN VERTICALLY AT ALL INTERSECTION WITH ROOF.
19. PROVIDE STONE COPING ABOVE ALL ROOF PARAPET AS SHOWN ON DETAILS.
20. INSTALL THERMAL BREAK INSULATED WINDOWS WITH DOUBLE GLAZING. WINDOWS TO BE 1" LESS IN SIZE THAN ROUGH MASONRY OPENING AS INDICATED ON PLAN.
21. ALL ROOF EQUIPMENT TO HAVE VIBRATOR SOUND INSULATOR.
22. PROVIDE BRIDGING AND LATERAL SUPPORT FOR ALL NEW METAL JOIST.
23. REPLACE ALL DEFECTIVE LOOSE LINTELS AT EXISTING WINDOWS.
24. PROVIDE NEW 3 X 5 X 3/8 STEEL ANGLES LINTEL AT ALL NEW MASONRY OPENING.

Clara Gomez

NYC Buildings

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
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1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

BC 1008.4.4 - INTERCOMMUNICATION SYSTEM

BUILDINGS WITH MORE THAN 8 D.U.'S SHALL BE PROVIDED WITH AN INTERCOMMUNICATION SYSTEM LOCATED AT THE DOOR GIVING ACCESS TO THE MAIN ENTRANCE LOBBY, CONSISTING OF A DEVICE OR DEVICES FOR VOICE COMMUNICATION BETWEEN THE OCCUPANT OF EACH D.U. AND A PERSON OUTSIDE THE DOOR TO THE MAIN ENTRANCE LOBBY, AND PERMITTING SUCH D.U. OCCUPANT TO RELEASE THE LOCKING MECHANISM OF SAID DOOR FROM THE D.U. IN BUILDINGS PROVIDED WITH A FULL-TIME LOBBY ATTENDANT, THE INTERCOMMUNICATION

FIRST FLOOR PLAN

GROSS AREA: 4486.16 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +66.54' [±0'-0"]

APPENDIX C - REQUIRED WINDOW NOISE ATTENUATION

ALL WINDOWS IN BOTH RESIDENTIAL/COMMERCIAL USES MUST BE PROVIDED WITH A CLOSED WINDOW CONDITION WITH A MINIMUM OF 40 DBA WINDOW-WALL ATTENUATION ON ALL FAÇADES IN ORDER TO MAINTAIN AN INTERIOR NOISE LEVEL OF 45 DBA. SPECIAL DESIGN FEATURES THAT GO BEYOND THE NORMAL DOUBLE-GLAZED WINDOWS ARE NECESSARY. IN ORDER TO MAINTAIN A CLOSED-WINDOW

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 40-42 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dudley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: bilevin@bilevin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FIRST FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISSAC & STERN No. 018258 STATE OF NEW YORK	A-102.00

DEPT OF BLDGS 520991739 Job Number
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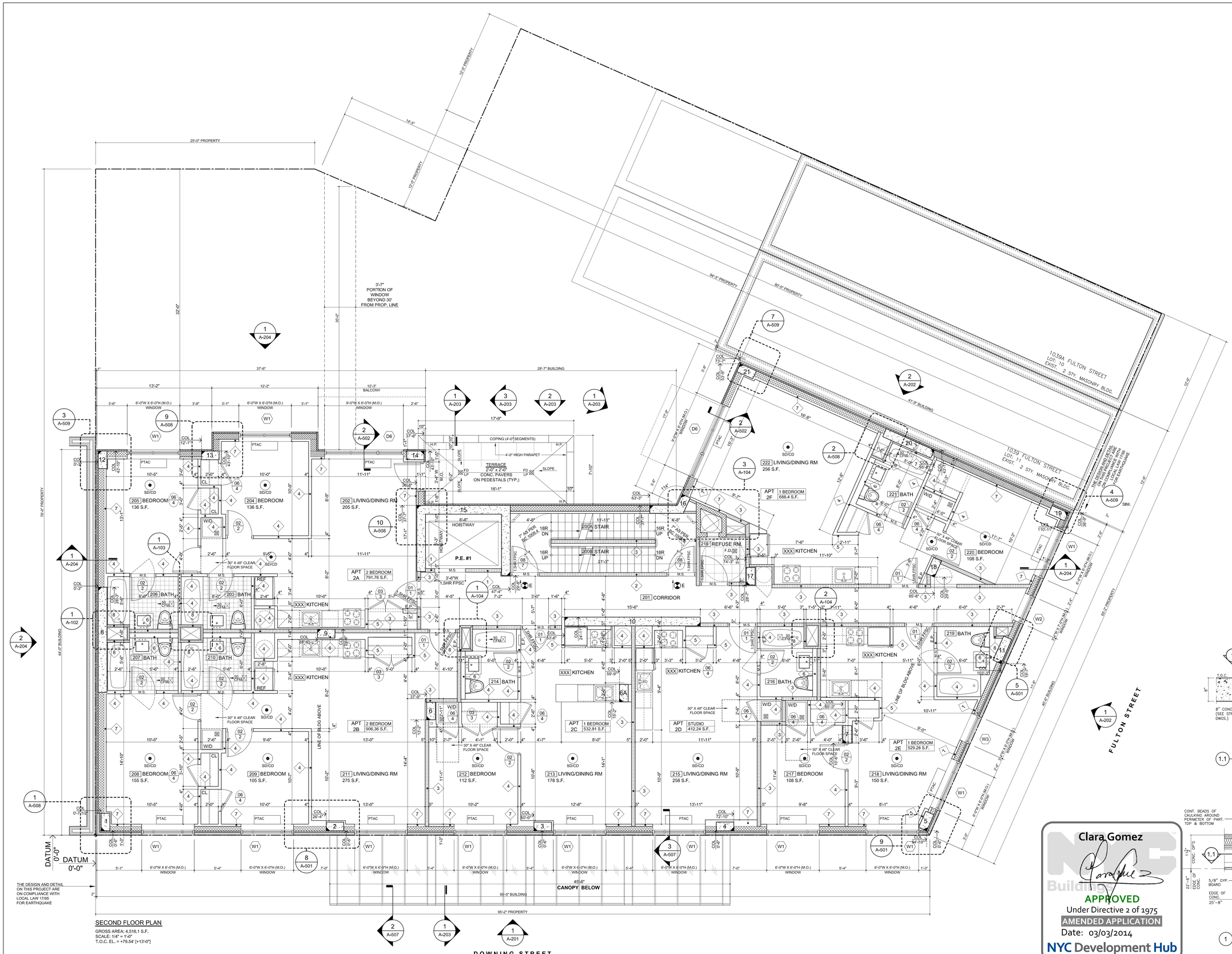

SECOND FLOOR PLAN

GROSS AREA: 4,518.1 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +79.54' [+13'-0"]

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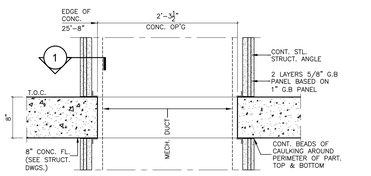
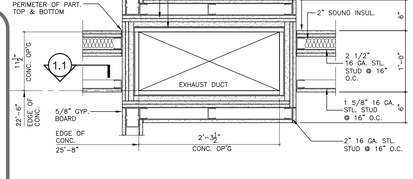
23. REPLACE ALL DEFECTIVE LOOSE LINTELS AT EXISTING WINDOWS.
24. PROVIDE NEW 3 X 5 X 3/8 STEEL ANGLES LINTEL AT ALL NEW MASONRY OPENING.

INDEX OF VENTILATION SCHEDULE AS PER MDL
2ND FLOOR

ROOM NO.	AREA S.F.	REQ. GLAZED	PROV. GLAZED	REQ. OPER.	PROV. OPER.
202	205	20.5	21.4	10.2	18.0
204	136	13.6	36	6.8	11.7
205	136	13.6	36	6.8	11.7
208	155	15.5	36	7.75	11.7
209	105	10.5	36	5.2	11.7
211	275	27.5	36	13.75	11.7
212	112	11.2	36	5.6	11.7
213	178	17.8	36	8.9	11.7
215	258	25.8	36	12.9	11.7
217	108	10.8	36	5.4	11.7
218	150	15.0	92	7.5	23.4
220	108	10.8	36	5.4	11.7
222	256	25.6	54	12.8	24.5



1.1 SECTION T.X. @ 2ND TO 6TH FLOOR



1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
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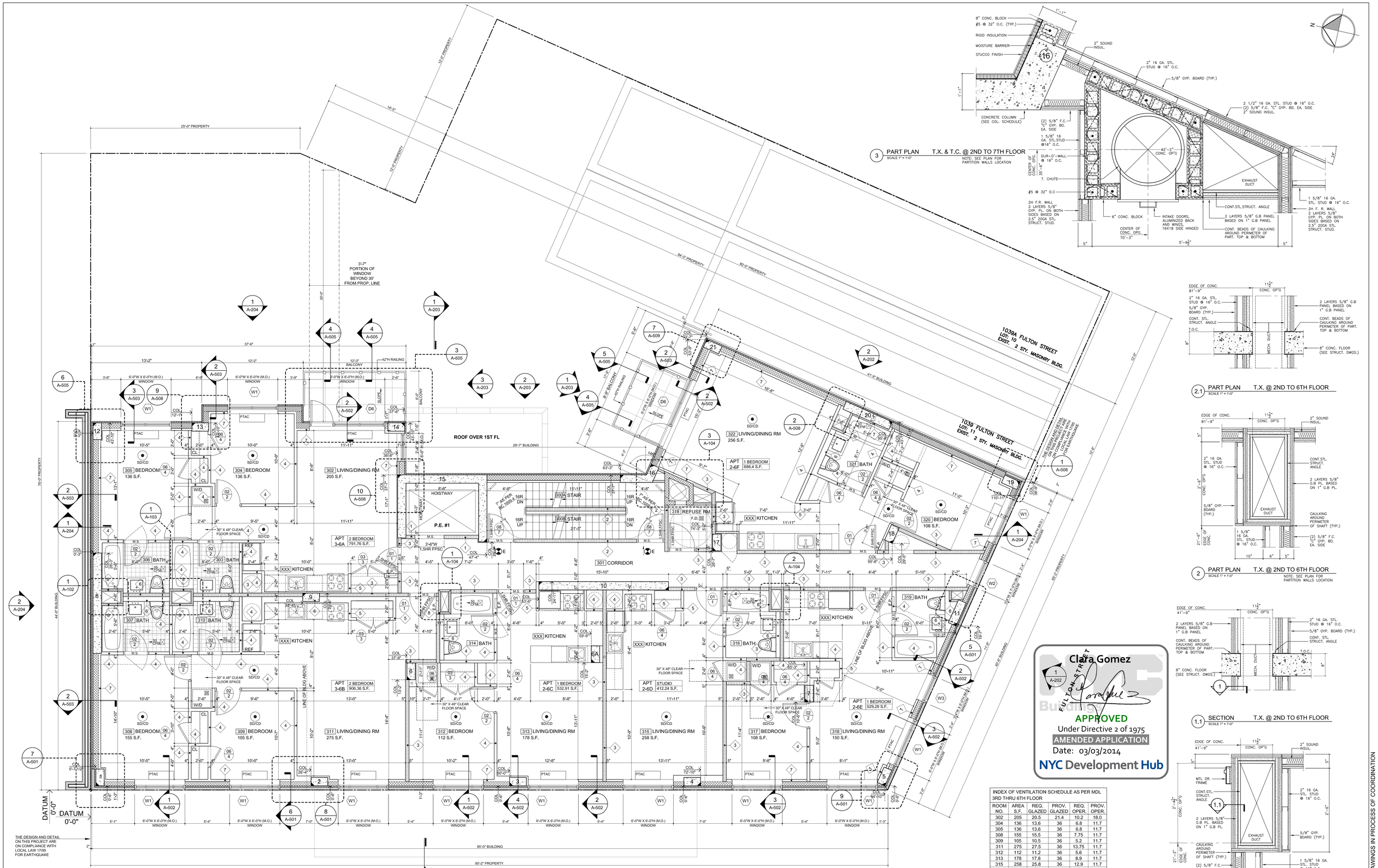
PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dudley Street, 2nd Floor Brooklyn, NY 11222 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECOND FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4. 5.	A-103.00

REGISTERED ARCHITECT ISSAC & STERN ARCHITECTS, P.C. No. 016258 STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number

E345685b3506 Scan Code



THIRD TO SIXTH FLOOR PLAN

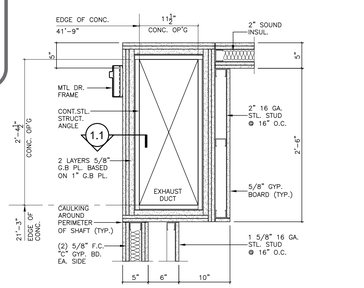
GROSS AREA: 4,518.1 S.F.
SCALE: 1/4" = 1'-0"
3RD FLOOR T.O.C. EL. = +89.79' [+23'-3"]
4TH FLOOR T.O.C. EL. = +100.04' [+33'-0"]
5TH FLOOR T.O.C. EL. = +110.29' [+43'-9"]
6TH FLOOR T.O.C. EL. = +120.54' [+54'-0"]

3 PART PLAN T.X. & T.C. @ 2ND TO 7TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

2.1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"

2 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

1.1 SECTION T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"



1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

Clara Gomez
FULTON STREET
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

INDEX OF VENTILATION SCHEDULE AS PER MDL 3RD THRU 6TH FLOOR

ROOM NO.	AREA S.F.	REQ. GLAZED	PROV. GLAZED	REQ. OPER.	PROV. OPER.
302	205	20.5	21.4	10.2	18.0
304	136	13.6	36	6.8	11.7
305	136	13.6	36	6.8	11.7
308	155	15.5	36	7.75	11.7
309	105	10.5	36	5.2	11.7
311	275	27.5	36	13.75	11.7
312	112	11.2	36	5.6	11.7
313	178	17.8	36	8.9	11.7
315	258	25.8	36	12.9	11.7
317	108	10.8	36	5.4	11.7
318	150	15.0	92	7.5	23.4
320	108	10.8	36	5.4	11.7
322	256	25.6	54	12.8	24.5

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-41 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 39 Dooley Street, 2nd Floor Brooklyn, NY 11206 P: (718) 332-0290 F: (718) 332-0274 E: bleven@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St. 9th Floor New York NY 10001 212-255-5000 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	TYPICAL THIRD TO SIXTH FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISAAC & STERN No. 016258 STATE OF NEW YORK	A-104.00

DEPT OF BLDGS 520991739 Job Number
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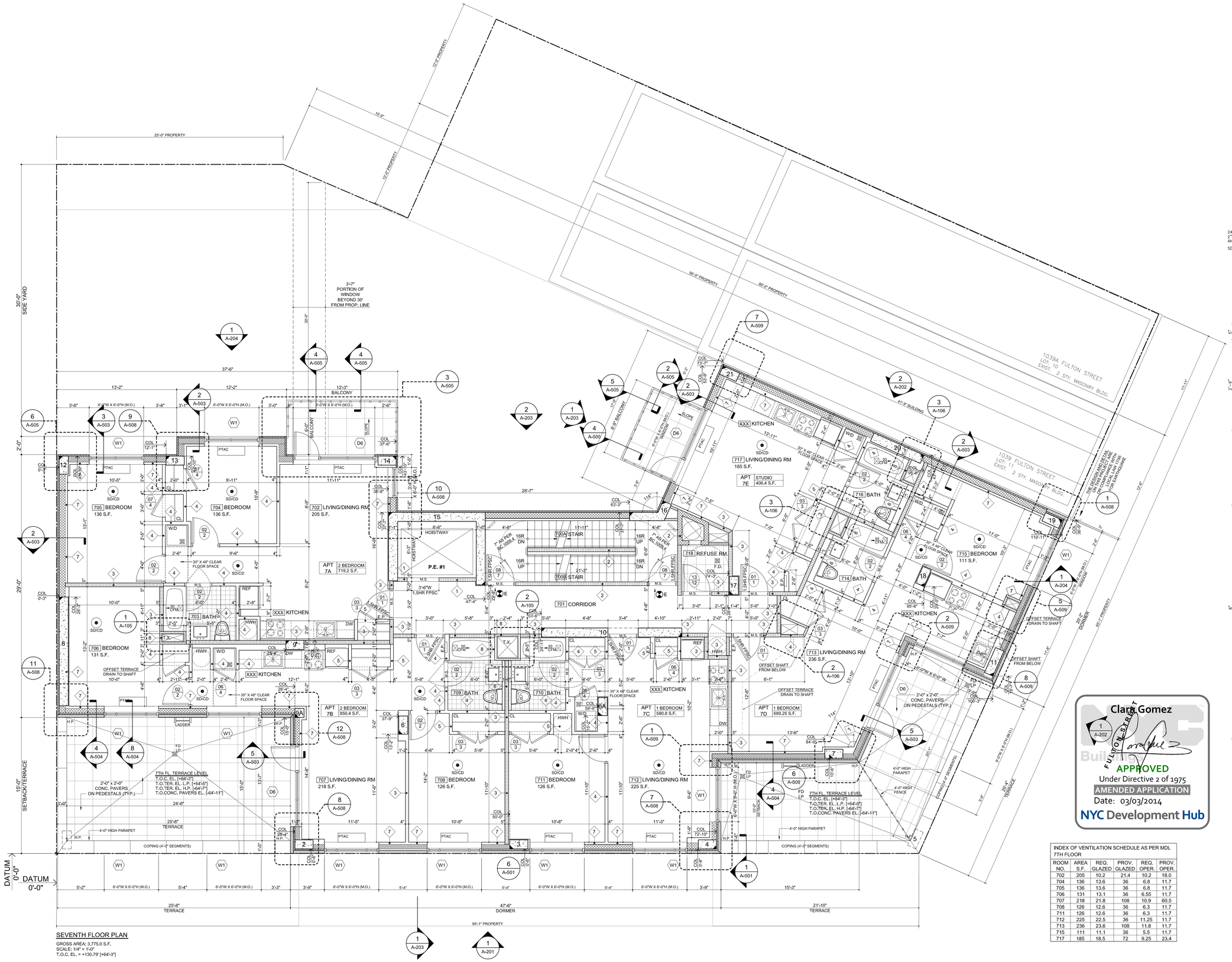
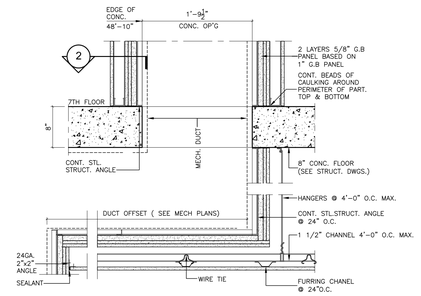
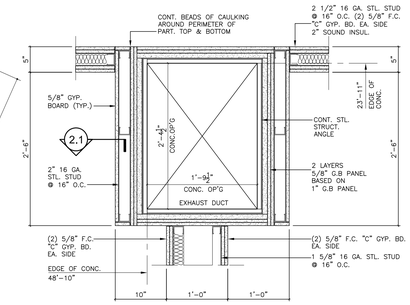


SEVENTH FLOOR PLAN

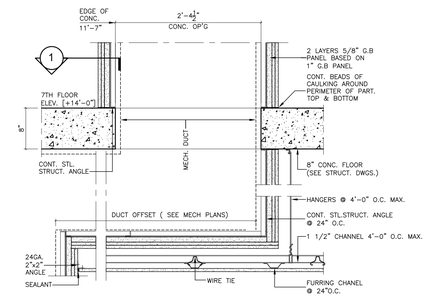
GROSS AREA: 3,775.0 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +130.79' [+64'-3"]



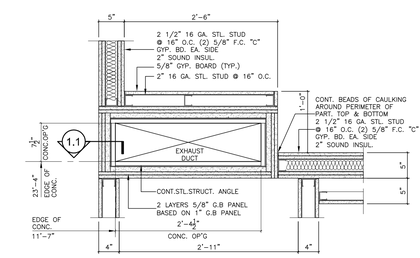
2.1 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"



2 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



1.1 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"



1 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

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INDEX OF VENTILATION SCHEDULE AS PER MDL 7TH FLOOR					
ROOM NO.	AREA S.F.	REQ. GLAZED	PROV. GLAZED	REQ. OPER.	PROV. OPER.
702	205	10.2	21.4	10.2	18.0
704	136	13.6	36	6.8	11.7
705	136	13.6	36	6.8	11.7
706	131	13.1	36	6.55	11.7
707	218	21.8	108	10.9	60.5
708	126	12.6	36	6.3	11.7
711	126	12.6	36	6.3	11.7
712	225	22.5	36	11.25	11.7
713	236	23.6	108	11.8	11.7
715	111	11.1	36	5.5	11.7
717	185	18.5	72	9.25	23.4

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SEVENTH FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT MARIO ISSAC NO. 018258 STATE OF NEW YORK	A-105.00

DEPT OF BLDGS 500991739 Job Number
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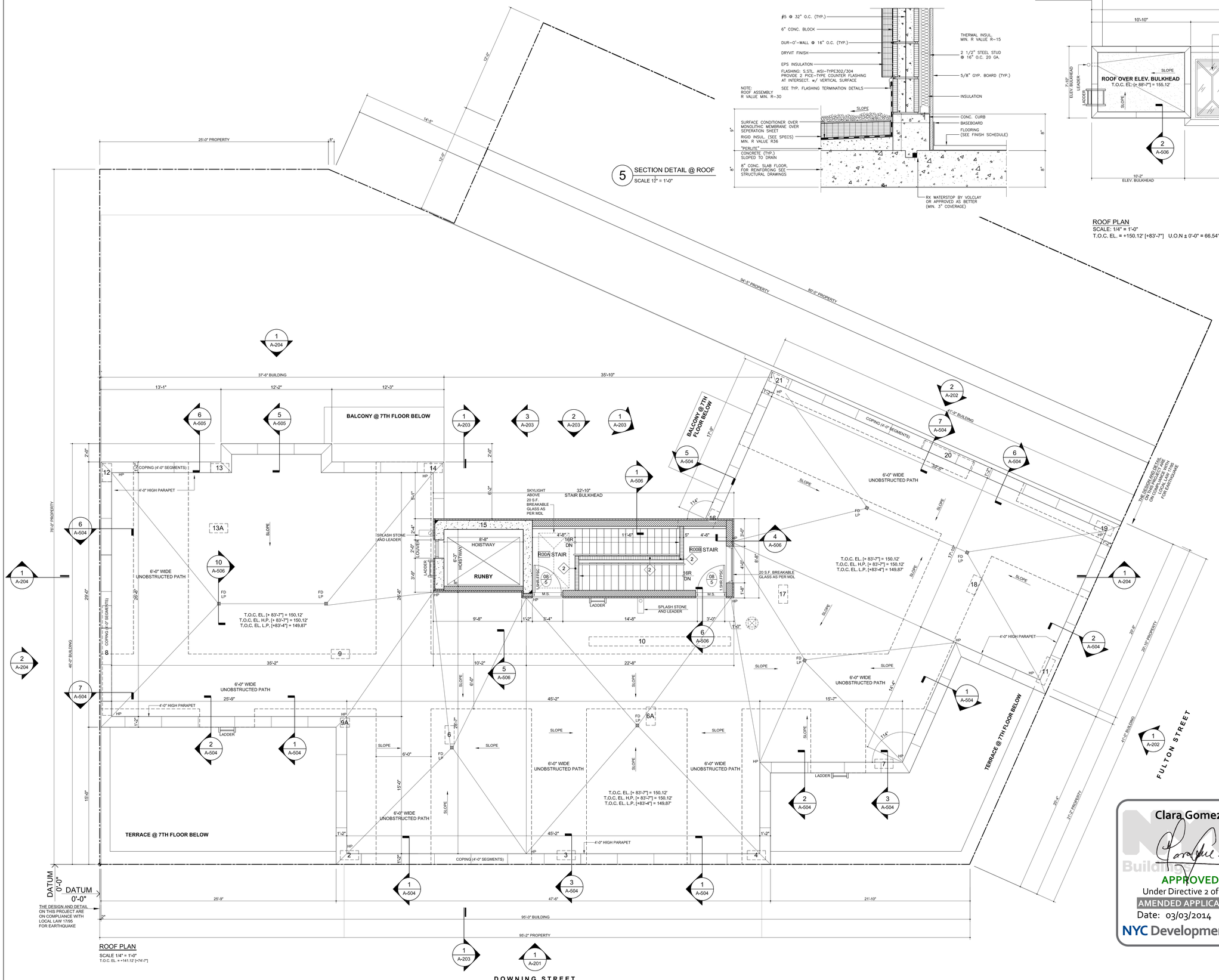
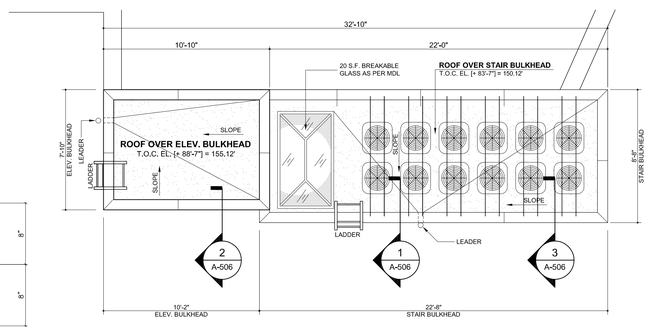
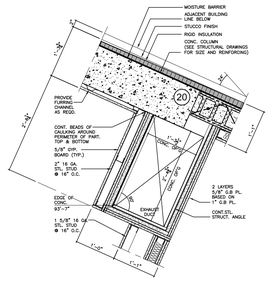


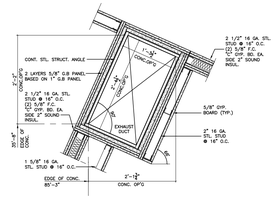
5 SECTION DETAIL @ ROOF
SCALE 12" = 1'-0"



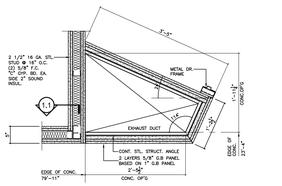
ROOF PLAN
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +150.12' [+83'-7"] U.O.N ± 0'-0" = 66.54' AS INDICATED ON SURVEY DATED = 12-10-2012



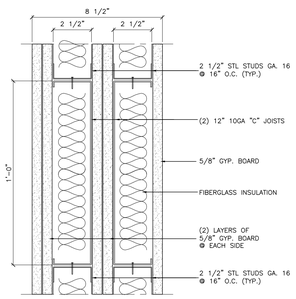
4 PART PLAN T.X. @ 7TH FLOOR
SCALE 1" = 1'-0" NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



3 PART PLAN T.X. @ 7TH FLOOR
SCALE 1" = 1'-0" NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



2 PART PLAN T.X. @ 7TH FLOOR
SCALE 1" = 1'-0" NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



1 SECTION DETAIL @ STAIR'S FIRE RATED SEPARATION WALL
SCALE 3" = 1'-0"

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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ROOF AND BULKHEAD PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. REV. 02-05-2014 4.	REGISTERED ARCHITECT BARRY ISSAC STATE OF NEW YORK	A-106.01

DEPT OF BLDGS 520991739 Job Number
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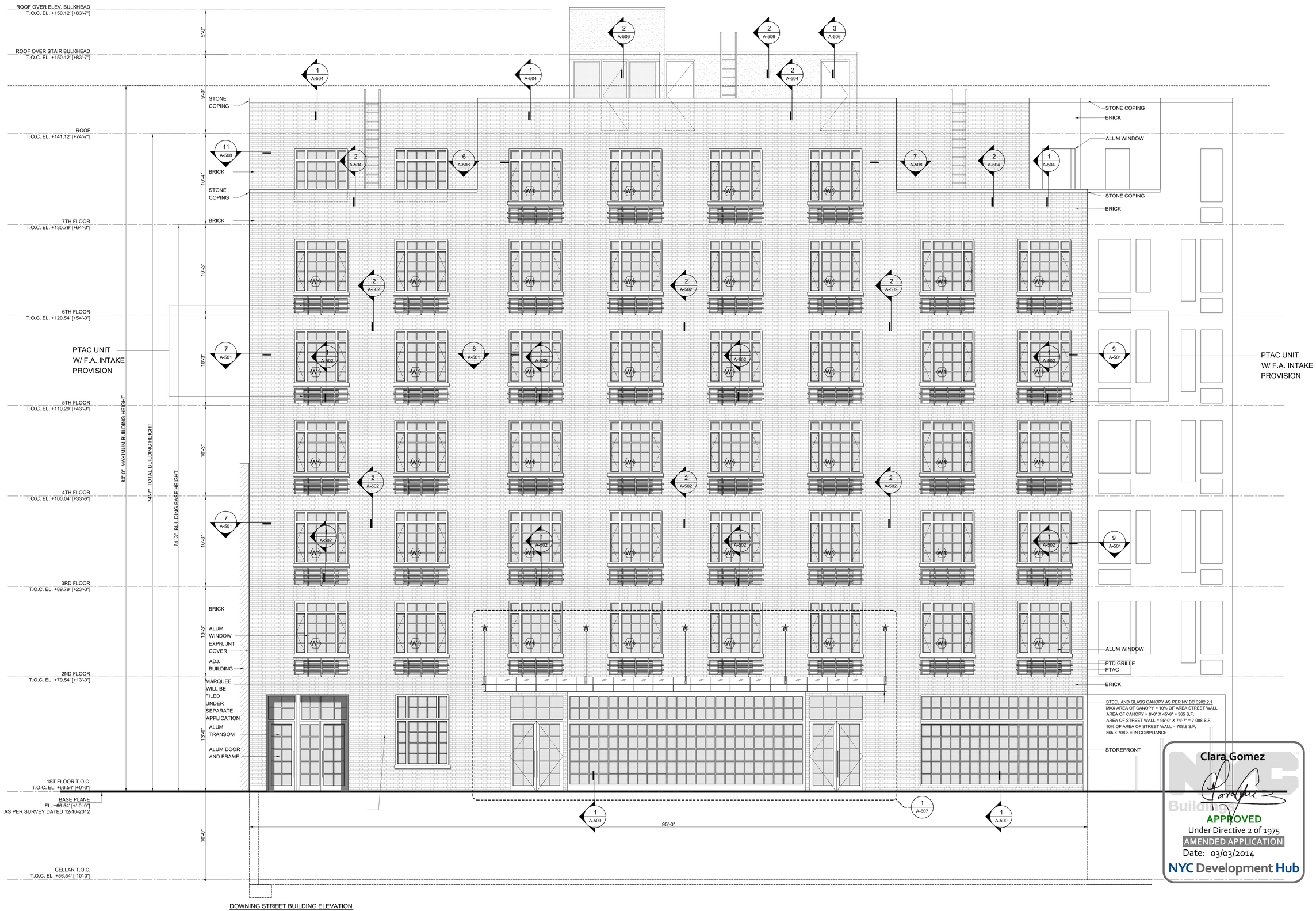

DOWNING STREET BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York,NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FRONT ELEVATION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ANDREW J. STERN No. 016	A-201.00

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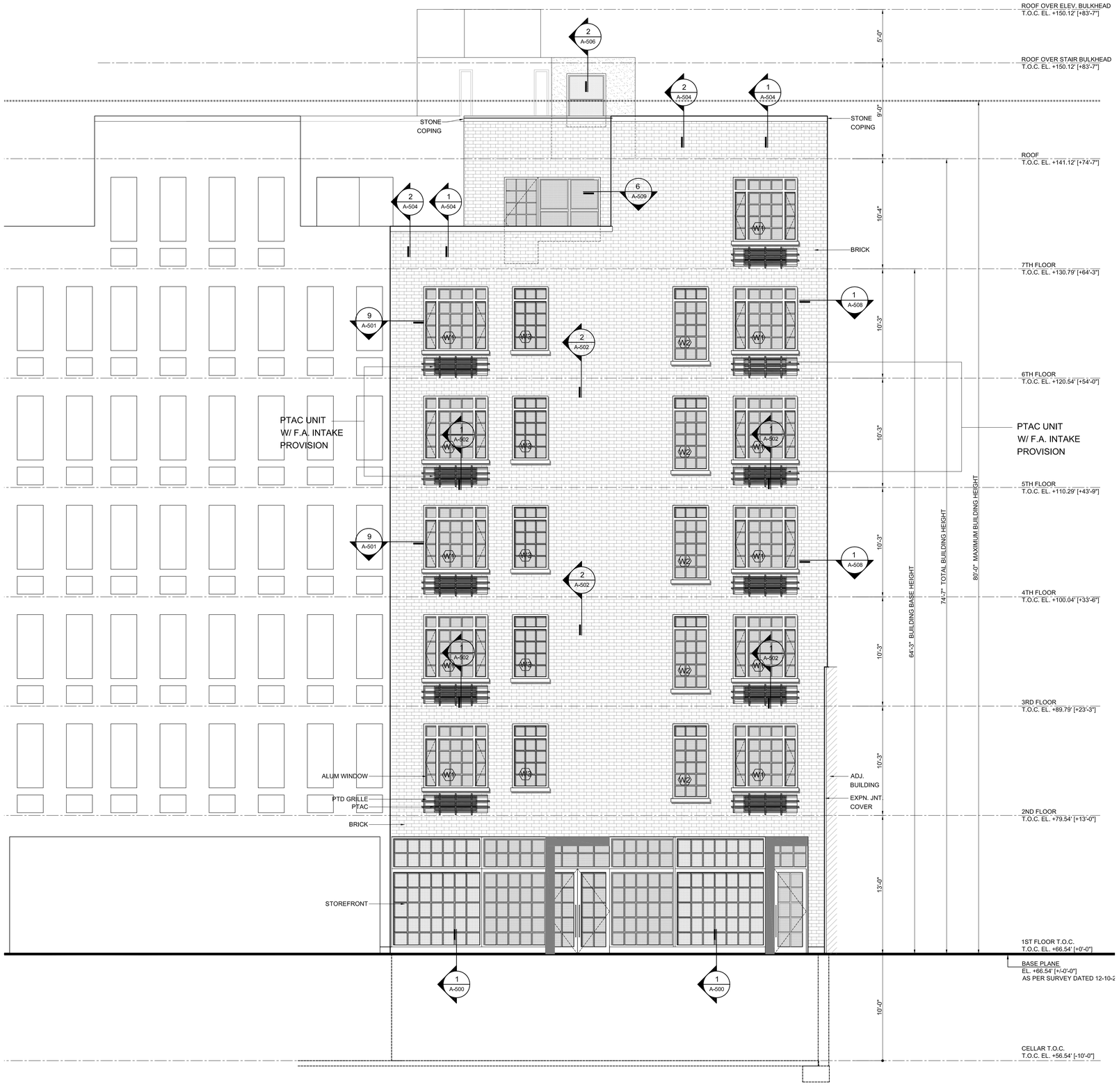
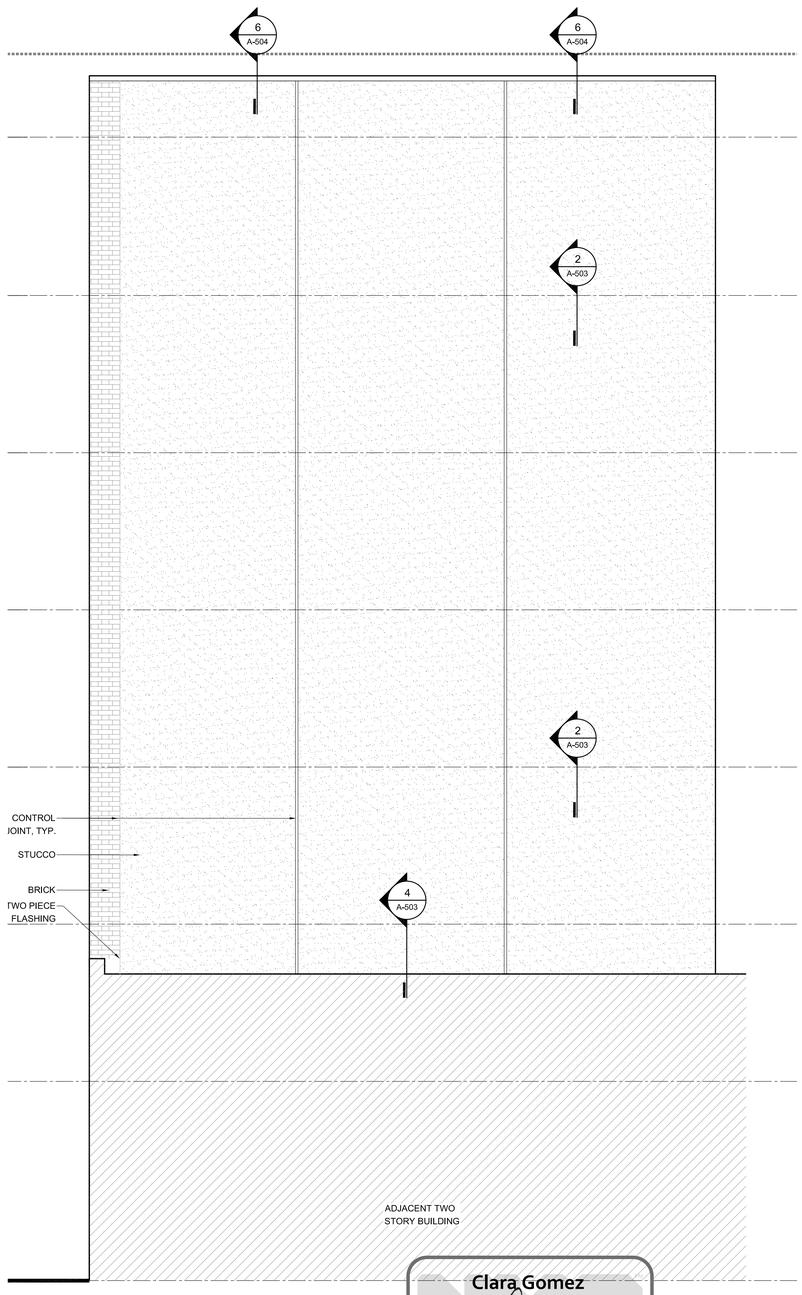


FULTON STREET BUILDING ELEVATION
SCALE: 1/4" = 1'-0"



SIDE BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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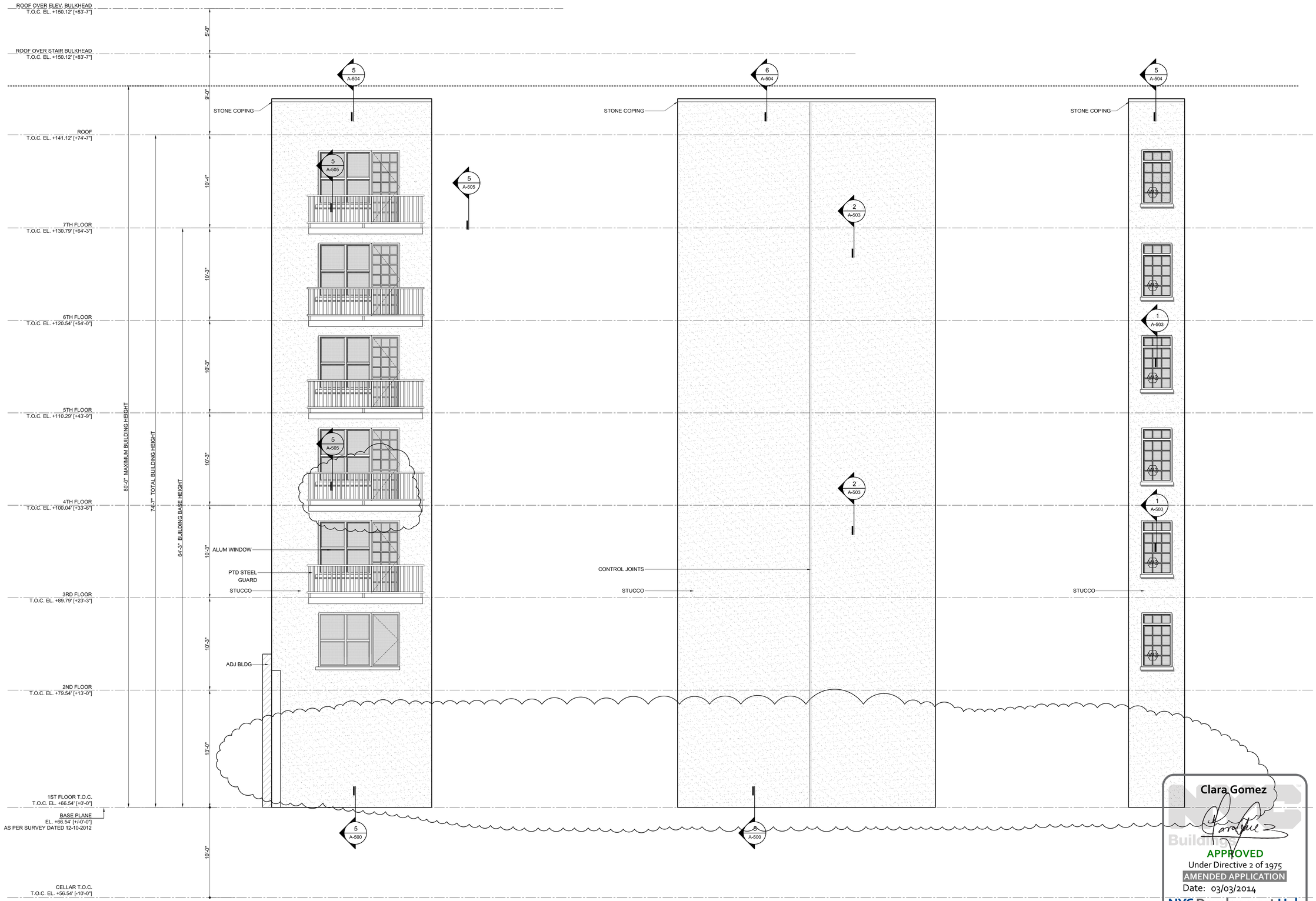

PART REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

PART REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

PART REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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Date: 03/03/2014
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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ELEVATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-203.00

DEPT OF BLDGS 520991739 Job Number
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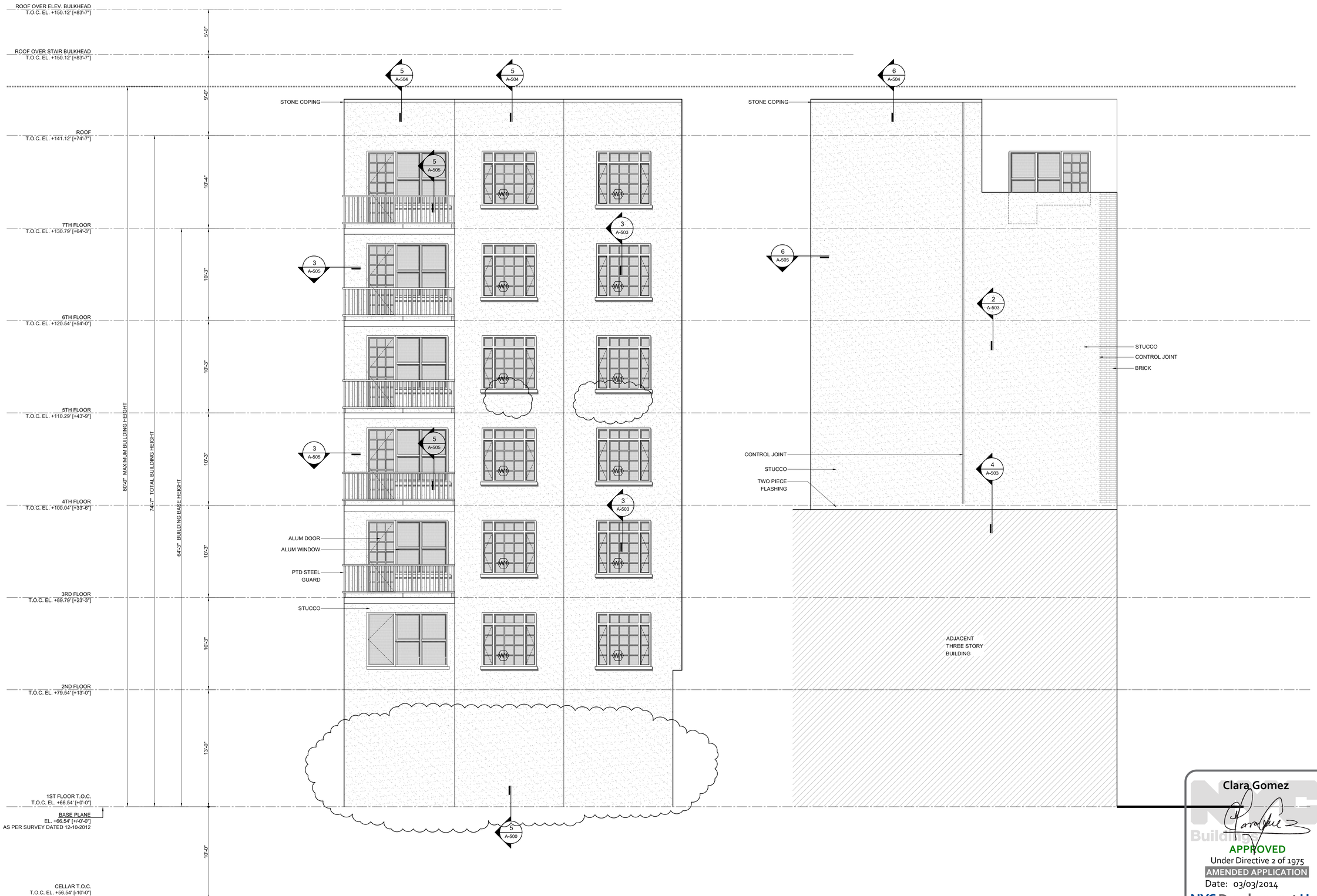

PART REAR ELEVATION
SCALE: 1/4"= 1'-0"

SIDE BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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NYC Buildings
APPROVED
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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-0274 E: blevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-6600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ELEVATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT STATE OF NEW YORK	A-204.00

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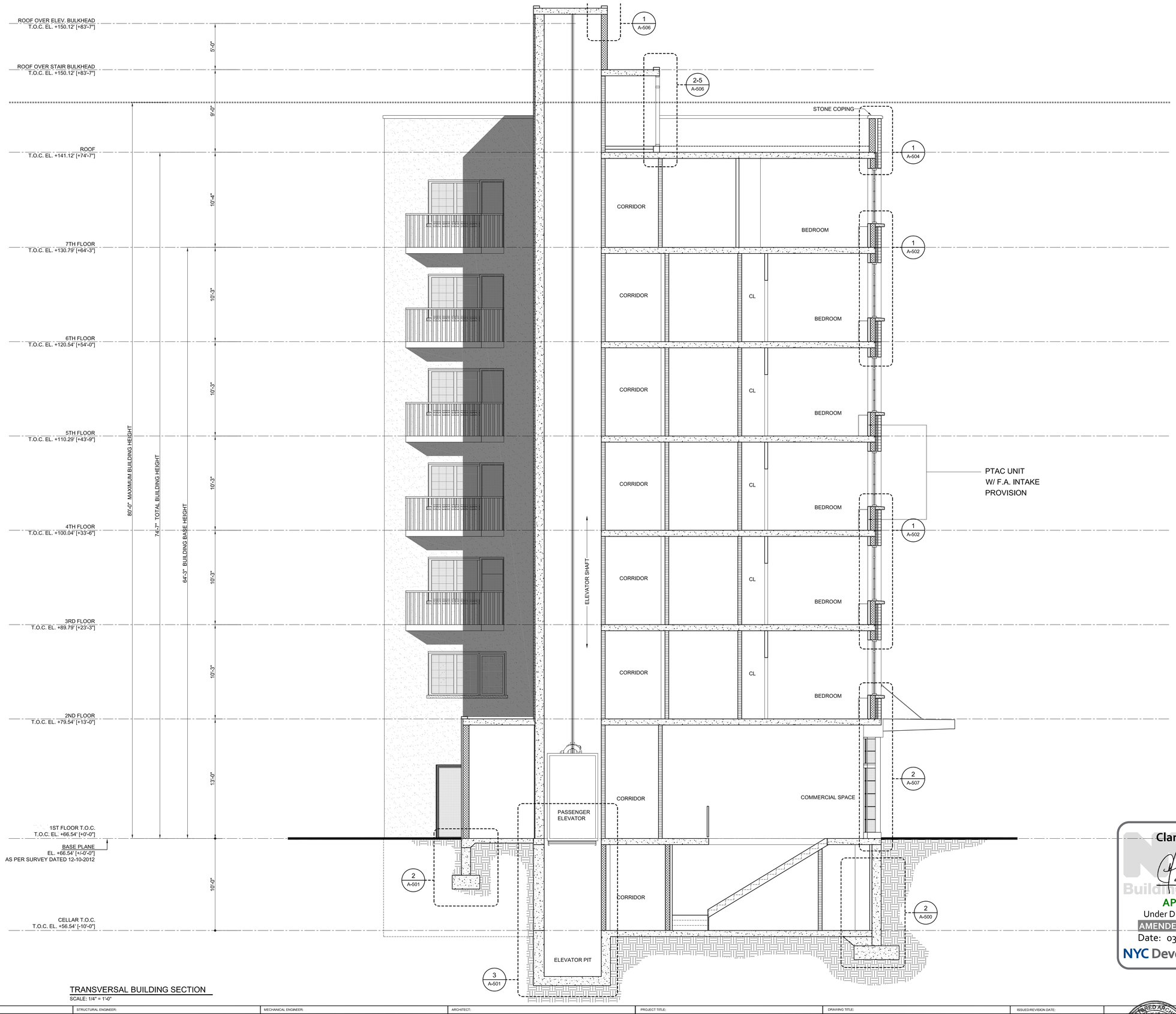

TRANSVERSAL BUILDING SECTION

SCALE: 1/4" = 1'-0"

Clara Gomez

NYC Buildings

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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-205.00

REGISTERED ARCHITECT CLARA GOMEZ No. 018268 STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number
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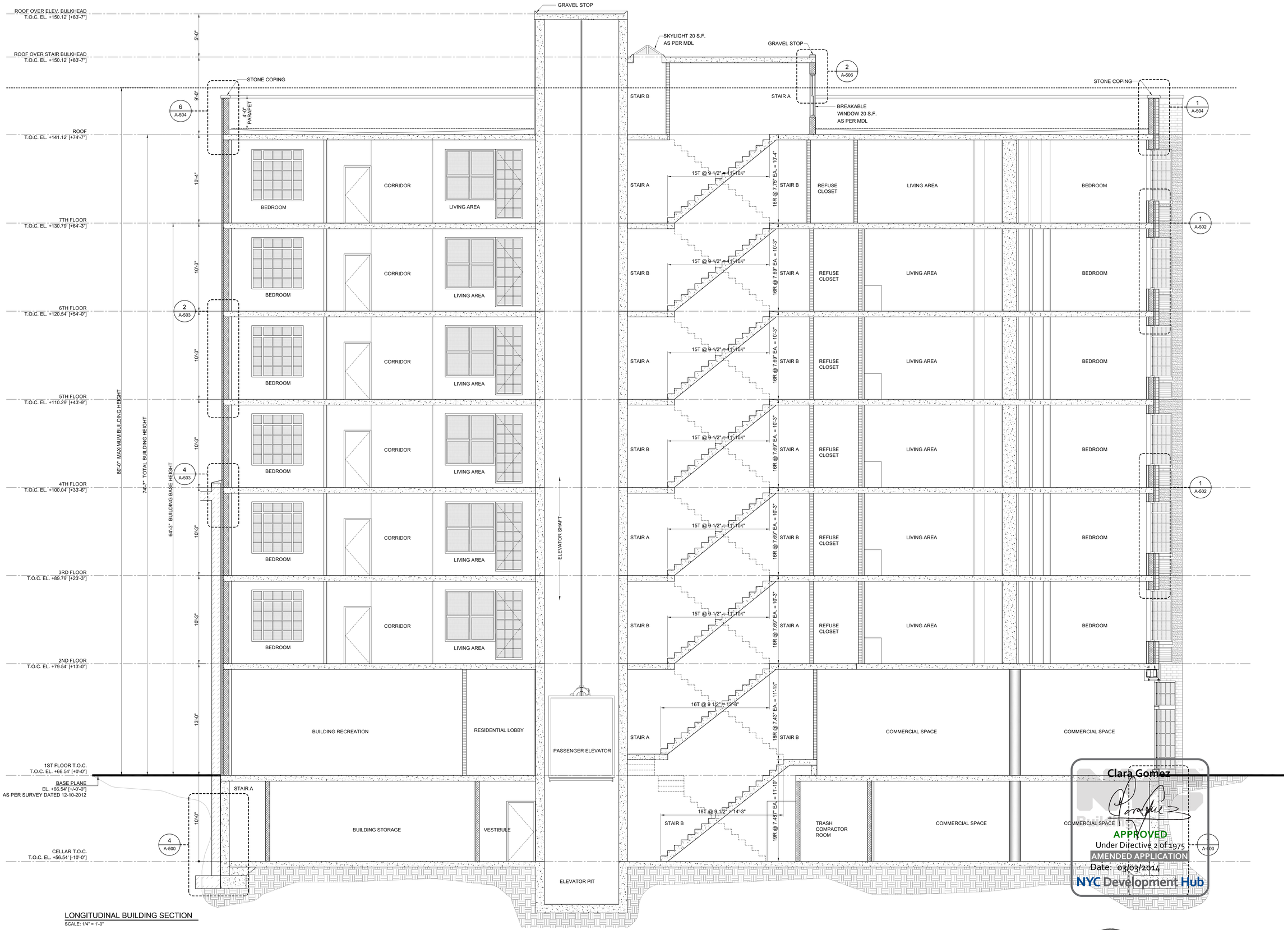


LONGITUDINAL BUILDING SECTION
SCALE: 1/4" = 1'-0"

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-3266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-206.00

REGISTERED ARCHITECT
ALAN S. ISAAC
No. 016238
STATE OF NEW YORK

APPENDIX C
Final Architectural Plans

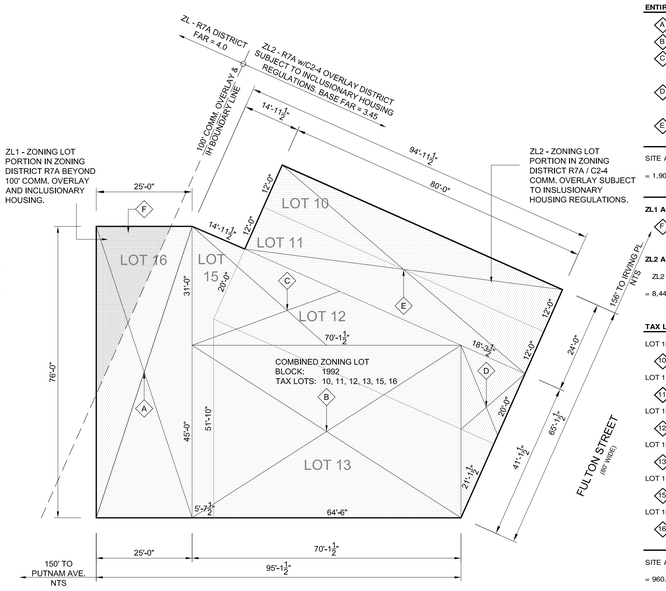
ZONING ANALYSIS:

ADDRESS: 1035 FULTON STREET

TAX BLOCK:		1992
TAX LOTS:		10,11,12,13,15,16
ZONING MAP:		16C
COMMUNITY DISTRICT		BROOKLYN 2
ZONING DISTRICTS:		
ZONING LOT 'ZL1' - SUBJECT TO INTERIOR LOT & NARROW STREET REGULATION:		R7A
ZONING LOT 'ZL2' - SUBJECT TO CORNER LOT AND WIDE STREET REGULATIONS		R7A/C2-4 IH
IH = SUBJECT TO INCLUSIONARY HOUSING PROGRAM (SEE MAP ON Z002)		
SITE AREA:	=	
ZONING LOT 'ZL1' (SEE ZONING LOT AREA DIAGRAMS)	=	426.77 S.F.
ZONING LOT 'ZL2' (SEE ZONING LOT AREA DIAGRAMS)	=	8,018.18 S.F.
TOTAL LOT AREA	=	**8,444.94** S.F.
CONSTRUCTION AREA LOTS 12, 13, 15, 16	=	6,516.94 S.F.
THESE LOTS ARE TO BE COMBINED AND DESIGNATED AS TAX LOT 12 PER RP602		
LOT FRONT / STREET WALL:		
LOT FRONT / STREET LINE ON FULTON STREET	=	65.12' FT
LOT FRONT / STREET LINE ON DOWNING STREET	=	95.12' FT
USE GROUP:		2 + 6

UNDER THIS APPLICATION THE ABOVE MENTIONED TAX LOTS ARE COMBINED INTO ONE ZONING LOT. THE NEW PROPOSED BUILDING WILL BE CONSTRUCTED ON TAX BLOCK 1992 LOTS 12, 13, 15 AND 16 AND SHALL BE DESIGNATED AS BUILDING - 'A'. THERE ARE 2 EXISTING BUILDINGS TO REMAIN FRONTING FULTON STREET - 1039 & 1039A FULTON STREET. 1039 FULTON - THE EXISTING BUILDING ON BLOCK 1992, LOT 10 SHALL BE DESIGNATED AS BUILDING - 'B'
1039A FULTON, THE EXISTING BUILDING ON BLOCK 1992, LOT 11 SHALL BE DESIGNATED AS BUILDING - 'C'
THIS CONSTRUCTION IS DEVELOPED IN COMPLIANCE WITH CHAPTER 3 OF ARTICLE II - RESIDENTIAL REGULATIONS, CHAPTER 3 OF ARTICLE III - BULK REGULATIONS FOR COMMERCIAL BUILDINGS IN COMMERCIAL DISTRICTS, CHAPTER 7 OF ARTICLE VII - PROVISIONS FOR ZONING LOTS DIVIDED BY DISTRICT BOUNDARIES AND THE INCLUSIONARY

ZR-22-00	PROPOSED RESIDENTIAL, USE GP 2 IS ALLOWED "AS OF RIGHT"		
ZR-32-00	PROPOSED COMMERCIAL RETAIL SPACE, USE GROUP 6 IS ALLOWED "AS OF RIGHT"		
ZR-77-20	THE MAX. FAR PERMITTED ON EACH PORTION OF ZONING LOT DIVIDED BY BOUNDARY BETWEEN ZONING DISTRICTS SHALL BE DETERMINED BY THE REGULATIONS OF APPLICABLE DISTRICTS AND COMPUTED BY THE PERCENTAGE OF THE ZONING LOT TO WHICH SUCH FAR		
	MAX. ALLOWABLE FLOOR AREA RATIO CALCULATION		
ZR-23-145	MAX. ALLOWABLE FLOOR AREA RATIO FOR A MIXED USE BUILDING DEVELOPED PURSUANT TO QUALITY HOUSING PROGRAM IN R7A DISTRICT	=	4.0
	'ZL1' PERCENTAGE OF THE ZONING LOT = 426.77 / 8,444.94 x 100	=	5.05%
	'ZL1' ADJUSTED FAR = 4 x 0.05	=	0.20
ZR-23-952	MAX. ALLOWABLE FLOOR AREA RATIO FOR A MIXED USE BUILDING DEVELOPED SUBJECT TO INCLUSIONARY HOUSING PROGRAM IN ZONING DISTRICT R7A/C2-4 IH (WITHOUT FLOOR AREA COMPENSATION)	=	3.45
	'ZL2' PERCENTAGE OF THE ZONING LOT = 8,018.18 / 8,444.94 x 100	=	94.95%
	'ZL2' ADJUSTED FAR = 3.45 x 0.9495	=	3.28
	TOTAL ADJUSTED FAR APPLICABLE TO THE ENTIRE LOT	=	**3.48**
	MAX. ALLOWABLE Z.A. ON THE ENTIRE ZONING LOT = 8,444.94 x 3.48	=	**29,388.39** S.F.
	PROPOSED RESIDENTIAL ZONING AREA BUILDING 'A' AT 1035 FULTON ST.	=	24,118.06 S.F.
	PROPOSED COMMERCIAL USE GROUP 6, BUILDING 'A' AT 1035 FULTON ST.	=	2,525.68 S.F.
	EXISTING ZONING AREA BUILDING 'B' AT 1039 FULTON ST.	=	1,318.38 S.F.
	EXISTING ZONING AREA BUILDING 'C' AT 1039A FULTON ST.		1,281.13 S.F.
	TOTAL PROPOSED ZONING AREA	=	**29,243.24** S.F.
	PROPOSED Z.A.= 29,243.24 < 29,388.39 THEREFORE		**IN COMPLIANCE**
ZR-33-121	MAXIMUM ALLOWABLE COMMERCIAL FLOOR AREA RATIO		
	THE MAXIMUM FAR FOR A COMMERCIAL USE IN R7A DISTRICT APPLICABLE TO 'ZL2' - ZONING DISTRICT R7A/C2-4 IH	=	2.0
	MAX. ALLOWABLE F.A. FOR A COMMERCIAL USE = 8,018.18 x 2.00	=	16,036.36 S.F.
	PROPOSED COMMERCIAL ZONING AREA AT 1035 FULTON STREET	=	2,525.68 S.F.
	EXISTING COMMERCIAL ZONING AREA AT 1039A FULTON STREET	=	645.63
	TOTAL PROPOSED AND EXISTING COMM. Z.A.		**3,171.31**
	3,171.31 < 16,036.36 THEREFORE		**IN COMPLIANCE**
ZR-77-24	THE MAX. PERCENT OF PERMITTED LOT COVERAGE ON EACH PORTION OF ZONING LOT DIVIDED BY BOUNDARY BETWEEN ZONING DISTRICTS SHALL BE DETERMINED BY THE REGULATIONS OF APPLICABLE DISTRICTS AND APPLIED SEPERATELY TO EACH PORTION OF		
ZR-23-145	MAX. ALLOWABLE LOT COVERAGE (SEE DIAGRAM)		
	ZONING LOT IN R7A SUBJECT TO INTERIOR LOT REGULATIONS	=	65.00%
	ZONING LOT IN R7A/C2-4 IH SUBJECT TO CORNER LOT REGULATIONS	=	80.00%
	ZL1 - MAX. ALLOWABLE LOT COVERAGE = 426.77 * 0.65	=	277.40
	ZL2 - MAX. ALLOWABLE LOT COVERAGE = 8,018.18 * 0.80	=	6,414.54
	TOTAL PERMITTED LOT COVERAGE		**6,691.94**
	ZL1 - PROPOSED LOT COVERAGE = 29.47 < 277.40 THEREFORE		**IN COMPLIANCE**
	ZL2 - PROPOSED LOT COVERAGE = 6,164.66 < 6,414.54 THEREFORE		**IN COMPLIANCE**
	TOTAL PROPOSED LOT COVERAGE = 6,194.13 < 6,691.94 THEREFORE		**IN COMPLIANCE**
ZR 23-22	FACTOR FOR DETERMINING MAX. NUMBER OF DWELLING UNITS	=	680
	MAX. ALLOWABLE # OF DWELLING UNITS = MAX. PERMITTED RES. F.A. / 680	=	
	= 29,388.39 (MAX.Z.A.) - 3,171.31 (COMM. Z.A.) / 680	=	39
	TOTAL PROPOSED # OF D.U. = 38 < 39		**IN COMPLIANCE**
ZR 35-22	BUILDINGS IN C2 DISTRICT MAPPED WITHIN R7A, STREET WALL LOCATION AND HEIGHT SETBACK REGULATIONS TO BE DETERMINED BY ZR-35-24		
ZR 35-24 (b)	AT LEAST 70% OF STREET WALL SHALL BE LOCATED WITHIN 8 FT. OF STREET LINE AND SHALL EXTEND TO THE MIN. BASE HEIGHT PER 35-24 TABLE A. STREET WALL LOCATION PROVISION APPLIES ONLY ALONG ONE STREET ON CORNER LOTS.		
	PROVIDED STREET WALL ON DOWNING STREET (100% OF STREET LINE)	=	95.12'
			IN COMPLIANCE
ZR 35-24	MIN. BASE HEIGHT FOR R7A / C2-4 DISTRICT	=	40
TABLE 'A'	MAX. BASE HEIGHT FOR R7A / C2-4 DISTRICT	=	65
	MAX. ALLOWABLE BUILDING HEIGHT FOR R7A / C2-4 DISTRICT	=	80
	PROPOSED BUILDING HEIGHT = 80'-0" (SEE ZONING SECTIONS ON Z003)		**IN COMPLIANCE**
ZR-23-32	LOT AREA & LOT WIDTH REGULATIONS		
	MIN. REQUIRED LOT AREA = 1,700		
	PROPOSED LOT AREA = 8,444.94 > 1,700		**IN COMPLIANCE**
	MIN. LOT WIDTH = 18'		
	PROPOSED LOT WIDTH ON FULTON STREET = 65.12' > 18'		**IN COMPLIANCE**
	PROPOSED LOT WIDTH ON DOWNING STREET = 95.12' > 18'		**IN COMPLIANCE**
ZR-23-45	FRONT YARD NOT REQUIRED		
	SIDE YARD NOT REQUIRED		
ZR-23-541	REAR YARD IS NOT REQUIRED FOR A ZONING LOT WITHIN 100 FEET OF CORNER.		**IN COMPLIANCE**
ZR-33-42	PERMITTED OBSTRUCTIONS - FOR C2 DISTRICT MAPPED WITHIN R7A, DORMERS PURSUANT TO ZR-23-621 (C) ARE PERMITTED OBSTRUCTIONS IN REQUIRED SET-BACK.		
ZR-23-621 (c)	PROPOSED DORMERS OVER BASE HEIGHT ON FULTON STREET AND ON DOWNING STREET ARE IN COMPLIANCE WITH THE PERMITTED OBSTRUCTIONS (SEE DIAGRAMS ON Z003)		
ZR-23-84	COURT REGULATIONS		
	MIN. SIZE OF INNER COURT = 1,200 S.F. WITH MIN. 30' DIMENSION		
	PROPOSED INNER COURT = 820"(L) x 300"(D) = 2,460 S.F. > 1,200 S.F.		**IN COMPLIANCE**
	OUTER COURT - (SEE DORMER DIAGRAM ON Z003)		
ZR-23-861	MIN. DISTANCE BETWEEN WINDOWS AND LOT LINE = 30'.		
	PROPOSED MIN. DISTANCE FROM WINDOW TO LOT LINE IS 30' O.K.		
ZR-25-23	REQUIRED PARKING		
	PARKING REQUIREMENT FOR R7A / C2-4 FOR USE GROUP 2	=	50.00%
ZR-25-241	WAIVER OF REQUIREMENTS FOR ZONING LOTS < 10,000 S.F. IN R7A	=	30.00%
	REQUIRED NUMBER OF PARKING SPACES FOR RESIDENTIAL = 38 x 0.3	=	11.40 SPACES
ZR-36-33	IN C2-4 FOR RESIDENCES THE NUMBER OF REQUIRED PARKING FACILITIES IS IN ACCORDANCE WITH ZR 25-23 ABOVE AND MODIFICATIONS BELOW.		
ZR-36-21	REQUIRED PARKING SPACES FOR COMMERCIAL USE IN C2-4	=	1 PER 1000 S.F.
	REQUIRED PARKING FOR COMMERCIAL = 3,171.31 (TOTAL CM) / 1000	=	3.17 SPACES
	TOTAL REQUIRED NUMBER OF PARKING SPACES =3.17 + 11.4	=	15 SPACES
ZR-25-261	WAIVER OF REQUIREMENTS FOR SMALL NUMBER OF SPACES IN R7A	=	15
	REQUIRED NUMBER OF SPACES (15) <= 15 THEREFORE		**WAIVED**
ZR36-36	WAIVER OF REQUIREMENTS FOR SMALL NUMBER OF SPACES IN C2-4 IS SAME AS IN ZR-25-261 ABOVE THEREFORE		**WAIVED**
ZR36-62	REQUIRED ACCESSORY OFF STREET LOADING BERTH		
	C2-4 MAPPED IN R7A NONE REQUIRED FOR THE FIRST 25,000 S.F. OF PROVIDED COMM.		
	TOTAL PROPOSED AND EXISTING COMMERCIAL ZONING AREA ON ENTIRE SITE = 3,171.31 S.F. 3,171.31 < 25,000 S.F. THEREFORE NONE REQUIRED => NONE PROVIDED		**IN COMPLIANCE**
ZR-25-81	REQUIRED BICYCLE PARKING SPACES USE GROUP 2 = 1 PER 2 DWELLING UNITS		
	REQUIRED FOR BUILDING A = 35 D.U. x 50%	=	18
	MINIMUM REQUIRED SIZE PER BIKE = 15 S.F. x 18 SPACES	=	270.00
	PROVIDED BICYCLE STORAGE ROOM ON FIRST FLOOR	=	272.05
	PROPOSED BICYCLE PARKING = 272.05 >= 270		**IN COMPLIANCE**
CHAPTER 8:	THE QUALITY HOUSING PROGRAM		
ZR-28-33	REQUIRED ONE STREET TREE FOR EVERY 25' OF STREET FRONTAGE PER ZR 26-41.		
	LOT FRONTAGE ON FULTON STREET	=	65.12'
	REQUIRED # STREET TREES 65.12 / 25	=	3
	LOT FRONTAGE ON DOWNING STREET	=	95.12' S.F.
	REQUIRED # STREET TREES 95.12 / 25	=	4
	TOTAL NUMBER OF REQUIRED STREET TREES	=	7
	PROPOSED NUMBER OF TREES ON FULTON STREET	=	2
	PROPOSED NUMBER OF TREES ON DOWNING STREET	=	3
	PROPOSED NUMBER OF TREES TO BE PLANTED AT ALTERNATIVE LOCATION	=	2
	TOTAL PROPOSED NUMBER OF STREET TREES = 7		**IN COMPLIANCE**
ZR-28-20	MIN. SIZE OF D.U. IS LARGER THAN 400 S.F. ; **IN COMPLIANCE**		
ZR-28-22	ALL WINDOWS ARE DOUBLE GLAZED ; **IN COMPLIANCE**		
ZR-28-23	ONE ENCLOSED REFUSE STORAGE IS REQUIRED AND PROVIDED @ EACH FLOOR.		
	REFUSE STORAGE & REMOVAL ROOM IS REQUIRED @ 2.9 C.F. / D.U. = 35 x 2.1= 101.5 C.F.		
	PROVIDED TRASH COMPACTOR ROOM AT CELLAR = 966 C.F. > 101.5		**IN COMPLIANCE**
ZR-28-24	AT LEAST ONE WASHING MACHINE REQUIRED PER 20 D.U. = 49 /20 ~ 3 WASHING MACHINES		
	AT LEAST ONE DRYER REQUIRED PER 40 D.U.		
	5 WASHING MACHINES AND 5 DRYERS ARE PROVIDED AT LAUNDRY ROOM IN CEL		**IN COMPLIANCE**
ZR-28-31	RECREATION SPACE IS REQUIRED AND PROVIDED AT FIRST FLOOR		
	MIN. REQUIRED AREA OF RECREATION = 24,118.06 x 3.3%	=	795.90 S.F.
	PROVIDED RECREATION AREA AT FIRST FLOOR	=	802.35 S.F.
	802.35 > 795.90		**IN COMPLIANCE**
	NOTE: ONLY 788.00 ARE EXCLUDED FROM THE RESIDENTIAL ZONING AREA.		
ZR-28-25	WHERE MORE THAN 50% OF CORRIDOR AREA HAS DIRECT VIEW LINE TO A WINDOW OF MIN. 20 SQ.FT. THAT CORRIDOR IS 50% DEDUCTABLE.		
ZR-28-41	CORRIDORS SERVING LESS THAN 11 D.U. ARE 50% DEDUCTABLE.		



SITE AREA DIAGRAM
SCALE 1/16"=1'-0"

ENTIRE SITE AREA CALCULATIONS (LOTS 10, 11, 12, 13, 15, 16)

A	25' - 0"	x	76' - 0"	=	1,900.00	SQ.FT.
B	70' - 1.5"	x	45' - 0"	=	3,162.40	SQ.FT.
C	70' - 1.5" / 2	x	31' - 0"	=	1,086.61	SQ.FT.
D	41' - 1.5" / 2	x	18' - 3.5"	=	375.93	SQ.FT.
E	24' - 0"	x	80' - 0"	=	1,920.00	SQ.FT.

SITE AREA = A + B + C + D + E = **8,444.94** SQ.FT.
= 1,900.00 + 3,162.40 + 1,086.61 + 375.93 + 1,920.00

ZL1 AREA - ZONING LOT PORTION IN DISTRICT R7A

F	43' - 9.5" / 2	x	19' - 6"	=	**426.77**	SQ.FT.

ZL2 AREA - ZONING LOT PORTION IN DISTRICT R7A/C2-4 IH

ZL2 AREA = A + B + C + D + E - F = **8,018.18** SQ.FT.
= 8,444.94 - 426.77

TAX LOTS AREA CALCULATIONS

LOT 10 AREA CALCULATIONS (1039A FULTON ST.)

G	12' - 0"	x	80' - 0"	=	960.00	SQ.FT.

LOT 11 AREA CALCULATIONS (1039 FULTON ST.)

H	12' - 0"	x	80' - 0"	=	960.00	SQ.FT.

LOT 12 AREA CALCULATIONS (1035 FULTON ST.)

G	20' - 0"	x	80' - 0"	=	1,600.00	SQ.FT.

LOT 13 AREA CALCULATIONS (1035 FULTON ST.)

I3	SEE DIAGRAM			=	2,516.29	SQ.FT.

LOT 15 AREA CALCULATIONS (1035 FULTON ST.)

G	SEE DIAGRAM			=	508.65	SQ.FT.

LOT 16 AREA CALCULATIONS (1035 FULTON ST.)

I6	25' - 0"	x	76' - 0"	=	1,900.00	SQ.FT.

SITE AREA = 10 + 11 + 12 + 13 + 15 + = **8,444.94** SQ.FT.
= 960.00 + 960.00 + 1,600.00 + 2,516.29 + 508.65 + 1,900.00

TAX LOT 13 AREA CALCULATIONS

A	80' - 0" / 2	x	21' - 1.5"	=	845.20	SQ.FT.
B	64' - 6" / 2	x	51' - 10"	=	1,671.09	SQ.FT.

TAX LOT 13 AREA = A + B = **2,516.29** SQ.FT.
= 844.78 + 1,671.09

TAX LOT 15 AREA CALCULATIONS

C	14' - 11.5" / 2	x	20' - 0"	=	149.38	SQ.FT.
D	5' - 7.5" / 2	x	24' - 2"	=	67.72	SQ.FT.
E	5' - 7.5"	x	51' - 10"	=	291.56	SQ.FT.

TAX LOT 15 AREA = C + D + E = **508.65** SQ.FT.
= 150.28 + 67.81 + 290.48

LOT COVERAGE CALCULATIONS

ZL1 - LOT COVERAGE CALCULATION

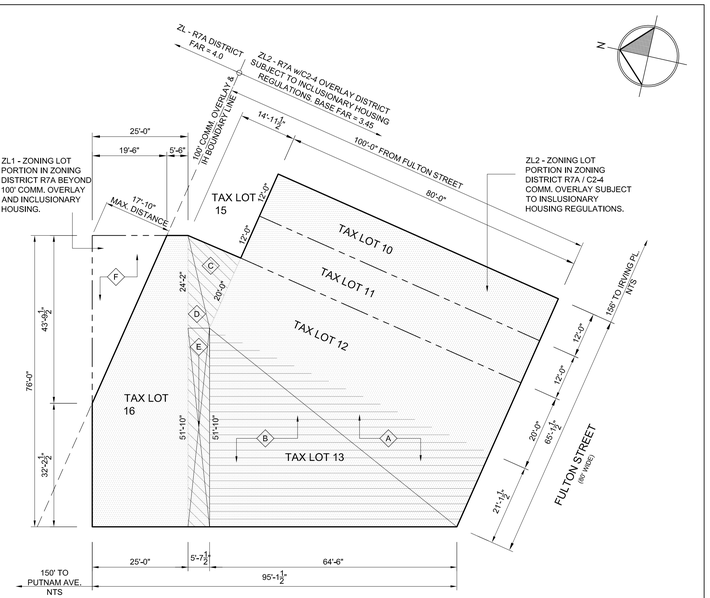
J	5' - 1.5" / 2	x	11' - 6"	=	29.47	SQ.FT.

ZL1 - LOT COVERAGE = **29.47** SQ.FT.

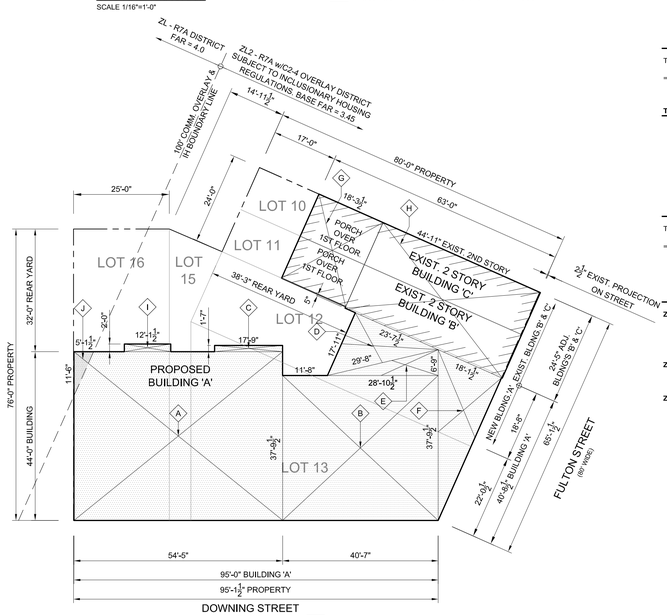
ZL2 - LOT COVERAGE CALCULATION

A	54' - 5"	x	44' - 0"	=	2,394.33	SQ.FT.
B	40' - 7"	x	37' - 9.5	=	1,533.71	SQ.FT.
C	17' - 9"	x	1' - 7"	=	28.10	SQ.FT.
D	23' - 7.5" / 2	x	17' - 11"	=	211.64	SQ.FT.
E	28' - 10.5" / 2	x	6' - 9"	=	97.45	SQ.FT.
F	18' - 1.5" / 2	x	40' - 8.5"	=	368.92	SQ.FT.
G	18' - 3.5"	x	24' - 0"	=	439.00	SQ.FT.
H	44' - 11"	x	24' - 5"	=	1,096.72	SQ.FT.
I	12' - 1.5	x	2' - 0"	=	24.25	SQ.FT.
J	5' - 1.5" / 2	x	11' - 6"	=	29.47	SQ.FT.

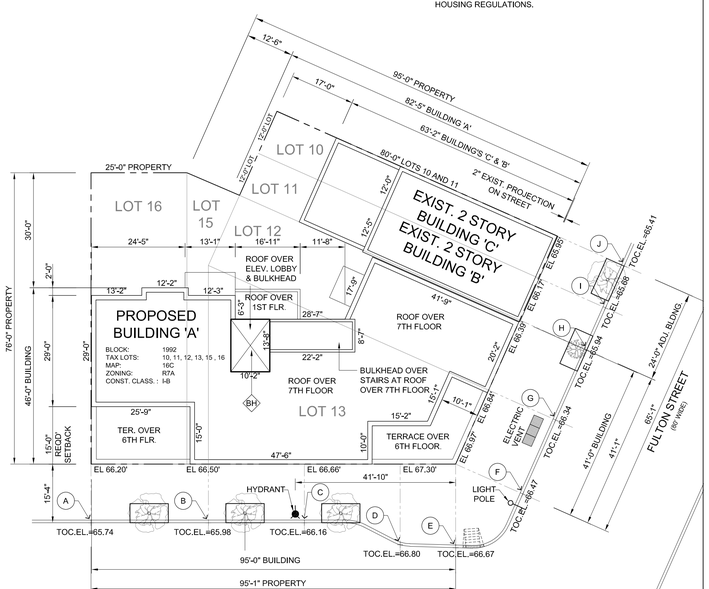
ZL2 - LOT COVERAGE = A+B+C+D+E+F+G+H+I+J =
= 2,394.33+ 1,533.71+ 28.10+ 211.64+ 97.45+
+ 368.92+ 439.00+ 1,096.72+ 24.25- 29.47 = **6,164.66** SQ.FT.



ZONING LOT AREA DIAGRAMS
SCALE 1/16"=1'-0"



LOT COVERAGE DIAGRAM
SCALE 1/16"=1'-0"



SITE & ROOF PLANS
SCALE 1/16"=1'-0"

SUMMARY OF FLOOR AREAS

SUMMARY OF FLOOR AREAS BUILDING 'A' AT 1035 FULTON ST.													BLDNG 'B' 1039 FULTON		BLDNG 'C' 1039A FULTON		TOTAL Z.A.		
FLR.	GROSS AREA	RES. G. AREA	QUALITY HOUSING DEDUCTIONS CORR. 50%	CORR. 100%	REFUSE ST.	RECREATION	MECH. DEDUCT.	EXT. WALLS DEDUCT.	BICYCLE ST. EXEMPTION	COMM. Z. AREA	RES. Z. AREA	1035 FULTON Z. AREA	RES. Z. AREA	COMM. Z. AREA	RES. Z. AREA	COMM. Z. AREA	TOTAL RES. Z. AREA	TOTAL COMM. Z. AREA	RESIDENTIAL+ COMMERCIAL
CELLAR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
1ST	4,604.33	1,808.65	0.00	464.41	5.56	788.00	1.07	116.35	270.00	2,525.68	433.26	2,958.94	763.25		99.00	645.63	1,295.51	3,171.31	4,466.82
2ND	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39	555.13		536.50		5,105.02		5,105.02
3RD	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
4TH	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
5TH	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
6TH	4,518.18	4,518.18	0.00	313.41	17.56		81.55	92.26			4,013.39	4,013.39					4,013.39		4,013.39
7TH	3,774.58	3,774.58	104.23	0.00	17.56		62.68	120.76			3,469.36	3,469.36					3,469.36		3,469.36
ROOF	148.51	148.51	NA	NA	NA	NA	NA	NA	NA	NA	148.51	148.51					148.51		148.51
TOTAL	**31,118.30**	**28,322.61**	**104.23**	**2,031.47**	**110.92**	**788.00**	**471.51**	**698.42**	**270.00**	**2,525.68**	**24,118.06**	**26,643.74**	**1,318.38**	**0.00**	**635.50**	**645.63**	**26,071.94**	**3,171.31**	**29,243.24**

LEGEND: BDRM. - BEDROOM; DU - DWELLING UNIT; RES - RESIDENTIAL; CORR - CORRIDOR; GA - GROSS AREA; COMM. - COMMERCIAL; IH - INCLUSIONARY HOUSING

SCHEDULE OF DWELLING UNITS

SCHEDULE OF D.U.'S 1035 FULTON ST. FLR.	DWELLING UNITS 2 BDRM.	1 BDRM.	STUDIO	NUMBER OF DU	# OF D.U. 1039 FULTON	# OF D.U. 1039A FULTON	TOTAL NUMBER OF D.U.'S
CELLAR					NA	NA	
1ST	0	0	0	0	1		1
2ND	2	3	1	6	1	1	8
3RD	2	3	1	6			6
4TH	2	3	1	6			6
5TH	2	3	1	6			6
6TH	2	3	1	6			6
7TH	3	1	1	5			5
ROOF	NA	NA	NA	NA			
TOTAL	**13**	**16**	**6**	**35**	**2**	**1**	**38**

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

DATUM EL. / BASE PLANE EL. CALCULATION

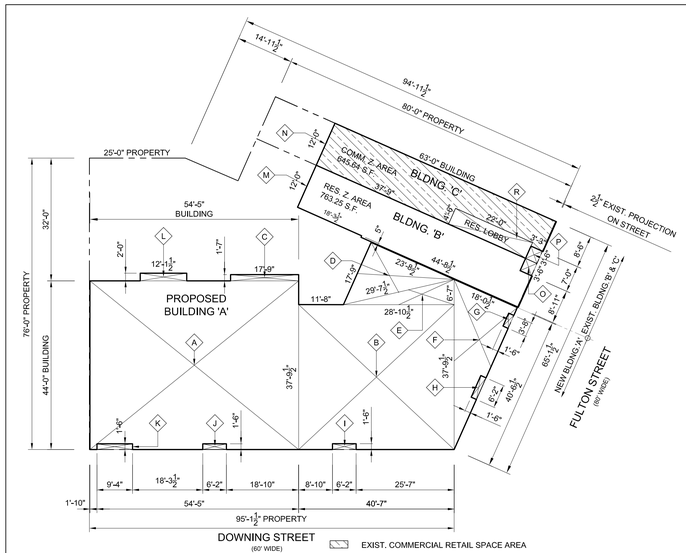
AS PER SURVEY DATED DATED 12/10/2012

DOWNING ST. LENGTH		FULTON ST. LENGTH	
95' - 1.5"		65' - 1.5"	
MARK	EL.	MARK	EL.
A	65.74	F	66.47
B	65.98	G	66.34
C	66.16	H	65.94
D	66.80	I	65.85
E	66.67	J	65.68
AVERAGE EL.	**66.27**		**66.06**

[A thru J) / 5] x 95'-1.5" + [(F thru / 5] x 65'-1.5"
95'-1.5" + 65'-1.5"
= (66.27 x 95'-1.5") + (66.06 x 65'-1.5") = **66.18**
160'-3"

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: bilevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York, NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ZONING ANALYSIS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4. 5.	Z001.00



1ST FLOOR AREA DIAGRAM
SCALE 1/16"=1'-0"

1ST. FLR. AREA CALCULATIONS (BLDNG. 'A' 1035 FULTON)

A	54' - 5"	x	44' - 0"	=	2,394.33	SQ.FT.
B	40' - 7"	x	37' - 9.5	=	1,533.71	SQ.FT.
C	17' - 9"	x	1' - 7"	=	28.10	SQ.FT.
D	23' - 8.5" / 2	x	17' - 9"	=	210.41	SQ.FT.
E	28' - 10.5" / 2	x	6' - 7"	=	95.05	SQ.FT.
F	18' - 0.5" / 2	x	40' - 6.5"	=	365.72	SQ.FT.
G	3' - 8"	x	1' - 6"	=	5.50	SQ.FT.
H	6' - 2"	x	1' - 6"	=	9.25	SQ.FT.
I	6' - 2"	x	1' - 6"	=	9.25	SQ.FT.
J	6' - 2"	x	1' - 6"	=	9.25	SQ.FT.
K	9' - 4"	x	1' - 6"	=	14.00	SQ.FT.
L	12' - 1.5	x	2' - 0"	=	24.25	SQ.FT.

GROSS AREA (G.A.) = A + B + C + D + E + F - - G -H -I -J -K +L = 2,394.33 + 1,533.71 + 28.10 + 210.41 + 95.05 - -365.72-5.50-9.25-9.25-9.25-14.00+24.25 = **4,604.33** SQ.FT.

Z.A. = (G.A. - DEDUCTIONS) = **4,016.94** SQ.FT.
= 4,604.33 - 469.97 - 1.07 - 116.35

ZR 28-25 DAYLIGHT IN CORRIDORS

A - CORRIDORS w/OUT DAYLIGHT WINDOWS

A1	9' - 10.5	x	5' - 9.5	=	57.19	SQ.FT.
A2	9' - 3"	x	1' - 1"	+		
	10' - 4"	x	6' - 1"	=	72.88	SQ.FT.
TOTAL A CORRIDORS AREA					**130.07**	SQ.FT.

B CORRIDORS w/DAYLIGHT WINDOWS

B1	8' - 0"	x	41' - 9.5	=	334.33	SQ.FT.
TOTAL B CORRIDOR AREA					**334.33**	SQ.FT.

CORRIDORS B (334.33) > CORRIDORS A (130.07) ==>

MORE THAN 50% OF CORRIDORS 'A' & 'B' AREA HAS DIRECT VIEW LINE TO A WINDOW OF MIN. 20 SQ.FT. THEREFORE CORRIDORS ARE 50% DEDUCTABLE.

1ST. FLR. DEDUCTIONS (BLDNG. 'A' 1035 FULTON)

CHAPTER 8 QUALITY HOUSING ZR 28-25

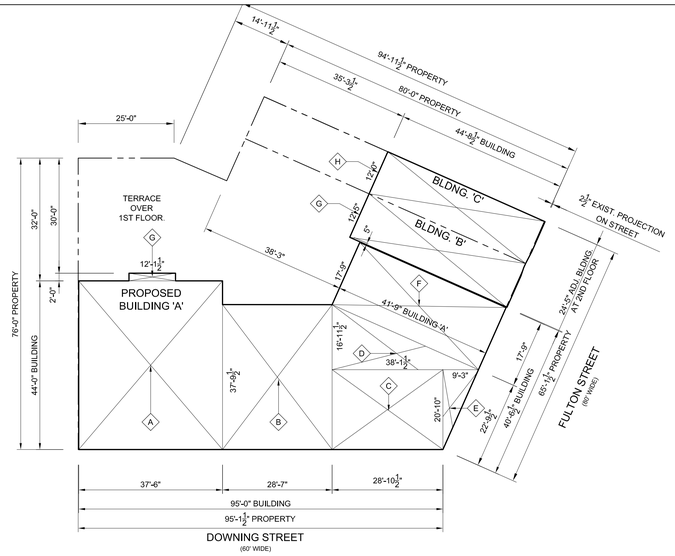
CORRIDORS (50%) = (ZA + B) = 130.07 + 334.33 =	464.41
TC - TRUSH CHUTE SHAFT = (SEE DIAGRAM)	5.56
TOTAL QUALITY HOUSING DEDUCTIONS	**469.97**

MECHANICAL DEDUCTIONS

TYPE	QUANT.	DESIGNATION	SIZE	AREA	TOTAL
D1	1	TC VENT	0' - 11" x 1' - 2"	1.07	1.07
TOTAL MECHANICAL DEDUCTIONS					**1.07**
TOTAL EXTERIOR WALL DEDUCTIONS					**116.35**
TOTAL DEDUCTIONS					**587.38**

1ST. FLR. AREA CALCULATIONS (BLDNG. 'C' 1039A FULTON)

Q	12' - 0"	x	63' - 0"	=	756.00	SQ.FT.
G	3' - 6"	x	3' - 3"	=	11.38	SQ.FT.
EXIST. GROSS AREA (G.A.)				=	N - P	
= 756.00 - 11.38				=	**744.63**	SQ.FT.
EXISTING RESIDENTIAL Z. AREA				=		SQ.FT.
R	22' - 0"	x	4' - 6"	=	**99.00**	SQ.FT.
EXISTING COMMERCIAL Z. AREA				=	G.A. - R	
= 744.63 - 99.00				=	**645.63**	SQ.FT.
G	3' - 6"	x	3' - 3"	=	11.38	SQ.FT.
EXIST. GROSS AREA (G.A.)				=	M - O	
= 774.63 - 11.38				=	763.25	SQ.FT.
EXISTING RESIDENTIAL Z. AREA				=	**763.25**	SQ.FT.



2ND-6TH FLOORS AREA DIAGRAM
SCALE 1/16"=1'-0"

2-6 FLRS. AREA CALCULATIONS (BLDNG. 'A' 1035 FULTON)

A	37' - 6"	x	44' - 0"	=	1,651.47	SQ.FT.
B	28' - 7"	x	37' - 9.5	=	1,080.21	SQ.FT.
C	28' - 10.5	x	20' - 10"	=	601.56	SQ.FT.
D	38' - 1.5 / 2	x	16' - 11.5	=	323.27	SQ.FT.
E	9' - 3" / 2	x	20' - 10"	=	96.35	SQ.FT.
F	41' - 9"	x	17' - 9"	=	741.06	SQ.FT.
G	12' - 1.5	x	2' - 0"	=	24.25	SQ.FT.

2-6 FLRS. GROSS AREA (G.A.) = A+B+C+D+E+F+G =
= 1,651.47 + 1,080.21 + 601.56 + 323.27 +
+ 96.35 + 741.06 + 24.25 = **4,518.18** SQ.FT.

AREA CALCULATIONS (BLDNG. 'A' 103 = **4,013.39** SQ.FT.
= 4,518.18 - 330.97 - 81.55 - 92.26

CORRIDOR AREAS Z.R. 28-25 - DAYLIGHT IN CORRIDORS

A - CORRIDORS w/OUT DAYLIGHT WINDOWS

A1	9' - 1.5	x	1' - 10"	+		
	21' - 11.5	x	1' - 4"	=	46.01	
A2	4' - 2"	x	1' - 6"	+		
	11' - 11"	x	1' - 0"	=	18.17	
TOTAL CORRIDORS A AREA					**64.17**	SQ.FT.

B - CORRIDORS w/DAYLIGHT WINDOWS

B1	35' - 4"	x	4' - 0"	+		
B2	1' - 9" / 2	x	4' - 0"	=		
B3	32' - 1.5	x	3' - 3"	=	249.24	
TOTAL CORE 2 CORRIDORS B AREA				=	**249.24**	SQ.FT.

CORRIDOR B1 (249.24) > CORRIDORS A1 + A2 (64.17) ==>

MORE THAN 50% OF CORE 1 CORRIDOR AREA HAS DIRECT VIEW LINE TO A WINDOW OF MIN. 20 SQ.FT. THEREFORE CORRIDORS ARE 50% DEDUCTABLE.

2-6 FLRS. DEDUCTIONS (BLDNG. 'A' 1035 FULTON)

CHAPTER 8 QUALITY HOUSING ZR 28-25 & 28-41

CORRIDORS (100%) = (ZA + 2B) = 64.17 +249.24 =	313.41
TC - TRUSH CHUTE SHAFT = (SEE DIAGRAM)	5.56
RS - REFUSE STORAGE = (4'-0" X 3'-0")	12.00
TOTAL QUALITY HOUSING DEDUCTIONS	**330.97**

MECHANICAL DEDUCTIONS

TYPE	QUANT.	DESIGNATION	SIZE	AREA	TOTAL
F1	6	PL. CHASE	0' - 3" x 5' - 6"	1.38	8.25
F2	4	PL. CHASE	0' - 6" x 5' - 6"	2.75	11.00
F3	2	PL. CHASE	1' - 0" x 5' - 6"	5.50	11.00
D1	1	TC VENT	0' - 11" x 1' - 2"	1.07	1.07
D2	3	MECH. VENT	1' - 5" x 2' - 5"	3.42	10.27
D3	2	MECH. VENT	2' - 4" x 1' - 6"	3.50	7.00
D4	1	MECH. VENT	1' - 5" x 1' - 1"	1.53	1.53
M1	2	MECH. CLOSET	2' - 4" x 2' - 4"	5.44	10.89
M2	3	MECH. CLOSET	1' - 11" x 2' - 2"	4.15	12.46
M3	1	MECH. CLOSET	* * *	8.08	8.08
TOTAL MECHANICAL DEDUCTIONS					**81.55**
TOTAL EXTERIOR WALL DEDUCTIONS					**92.26**
TOTAL DEDUCTIONS					**504.79**

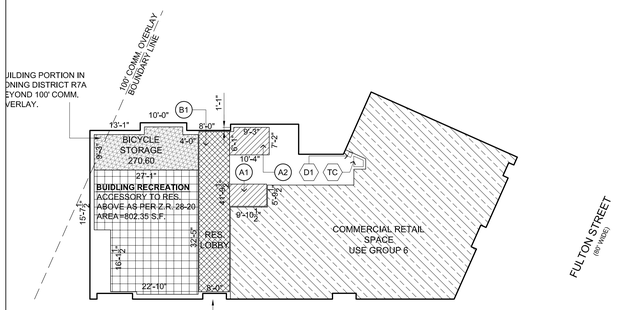
* * * SEE DIAGRAM

2ND FLR. AREA CALCULATIONS (BLDNG. 'B' 1039 FULTON)

Q	12' - 5"	x	44' - 8.5	=	555.13	
EXIST. G.A. = RESIDENTIAL Z. AREA				=	**555.13**	SQ.FT.

2ND FLR. AREA CALCULATIONS (BLDNG. 'C' 1039A FULTON)

Q	12' - 0"	x	44' - 8.5	=	536.50	
EXIST. G.A. = RESIDENTIAL Z. AREA				=	**536.50**	SQ.FT.

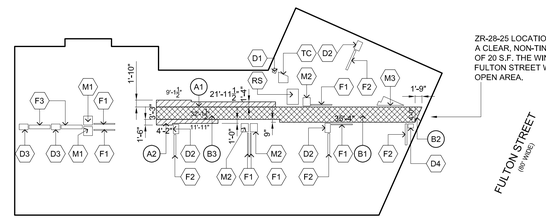


ZR-28-25 LOCATION OF WINDOW WITH A CLEAR, NON-TINTED, GLAZED AREA OF MIN. 20 S.F. THE WINDOWS ARE OPEN TO DOWNING STREET WITH MIN. OF 60' OPEN AREA.

DOWNING STREET
(60' WIDE)

AREA DESIGNATED AS TYPE 'A' - CORRIDORS w/OUT WINDOWS
AREA DESIGNATED AS TYPE 'B' CORRIDORS w/WINDOWS
AREA DESIGNATED AS COMMERCIAL RETAIL SPACE
AREA DESIGNATED AS BICYCLE PARKING STORAGE.

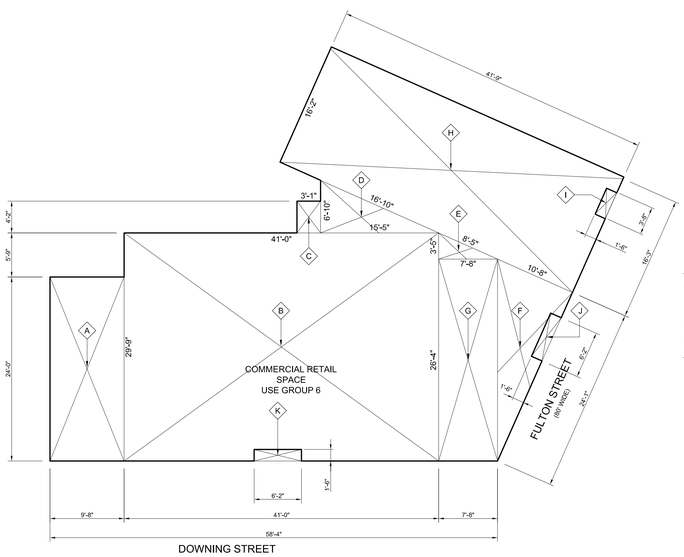
1ST FLOOR AREA CALCULATIONS
SCALE 1/16"=1'-0"



AREA DESIGNATED AS TYPE 'A' - CORRIDORS w/OUT WINDOWS
AREA DESIGNATED AS TYPE 'B' CORRIDORS w/WINDOWS

DOWNING STREET
(60' WIDE)

2ND-6TH FLOORS AREA CALCULATIONS
SCALE 1/16"=1'-0"



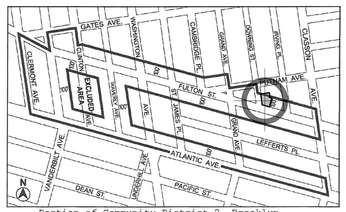
1ST. FLR. COMMERCIAL AREA CALCULATIONS

A	9' - 8"	x	24' - 2"	=	233.61	SQ.FT.
B	41' - 0"	x	29' - 9"	=	1,222.23	SQ.FT.
C	5' - 0"	x	4' - 2"	=	20.83	SQ.FT.
D	13' - 6" / 2	x	6' - 0"	=	40.50	SQ.FT.
E	7' - 8" / 2	x	3' - 5"	=	13.10	SQ.FT.
F	24' - 1" / 2	x	10' - 8"	=	128.44	SQ.FT.
G	7' - 8"	x	26' - 4"	=	201.89	SQ.FT.
H	4' - 7"	x	15' - 7"	=	71.42	SQ.FT.
I	41' - 9"	x	16' - 2"	=	675.50	SQ.FT.
J	3' - 8"	x	1' - 6"	=	5.50	SQ.FT.
K	6' - 2"	x	1' - 6"	=	9.25	SQ.FT.
L	6' - 4"	x	1' - 6"	=	9.50	SQ.FT.
M	6' - 4"	x	1' - 6"	=	9.50	SQ.FT.

COMMERCIAL AREA = A + B + C + D + E + F + + G +H +I -J -K -L -M =
= 233.61 + 1,222.23 + 20.83 + 40.50 +13.10 +128.44 +201.89 +71.42 + + 675.50 -5.50 -9.25 -9.50 -9.50 = **2,573.78** SQ.FT.

1ST FLOOR COMMERCIAL SPACE AREA CALCULATIONS
SCALE 1/8"=1'-0"

Map 3 - (9/30/09)



Portion of Community District 2, Brooklyn

THE ABOVE MAP IS AN EXTRACT FROM APPENDIX 'F' OF NYC ZONING RESOLUTION (ZONING MAP 16C, BROOKLYN CD 2, MAP 3) DEPICTING THE BOUNDARY OF INCLUSIONARY HOUSING DESIGNATED AREA AS IT PERTAINS TO THE SUBJECT PROPERTY.

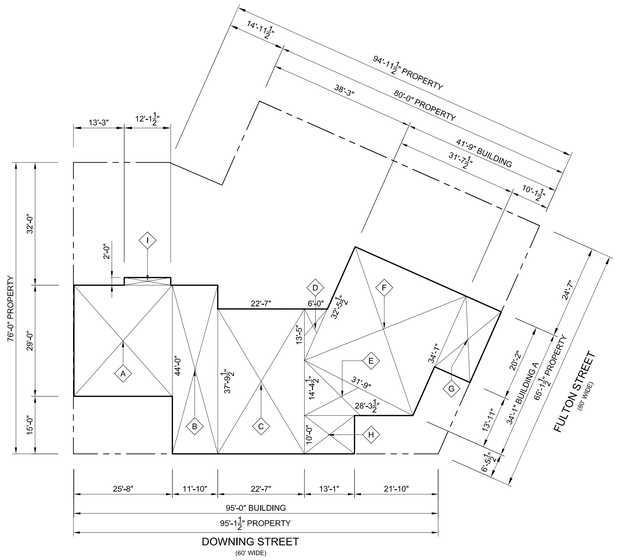
APPENDIX F - INCLUSIONARY HOUSING MAP
SCALE 1/16"=1'-0"

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York,NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ZONING DIAGRAMS SCALE: AS SHOWN	1. ISSUED 06-19-2013 2. REV. 12-11-2013 3. 4.	Z002.00

REGISTERED ARCHITECT ROBERT ISSAC No. 016728 STATE OF NEW YORK



7TH FLOORS AREA DIAGRAM
SCALE 1/16"=1'-0"

7TH FLR. AREA CALCULATIONS (BLDNG. 'A' 1035 FULTON)

A	25' - 8"	x	29' - 0"	=	745.40	SQ.FT.
B	11' - 10"	x	44' - 0"	=	520.67	SQ.FT.
C	22' - 7"	x	37' - 9.5"	=	853.46	SQ.FT.
D	6' - 0" / 2	x	13' - 5"	=	40.25	SQ.FT.
E	28' - 3.5" / 2	x	14' - 4.5"	=	203.35	SQ.FT.
F	(32'-5.5" + 34'-1") / 2	x	31'-7.5"	=	1,052.19	SQ.FT.
G	20' - 2"	x	10' - 1.5	=	204.19	SQ.FT.
H	13' - 1"	x	10' - 0"	=	130.83	SQ.FT.
I	12' - 1.5	x	2' - 0"	=	24.25	SQ.FT.

7TH FLR. GROSS AREA (G.A.) = A+B+C+D+F+G+H+I

= 745.40 + 520.67 + 853.46 + 40.25 + 203.35 +
+ 1,052.19 + 204.19 + 130.83 + 24.25 = **3,774.58** SQ.FT.

7TH FLR. Z.A. = (GA-DEDUCTIONS) = **3,469.36** SQ.FT.

= 3,774.58 - 121.79 - 62.68 - 120.76

CORRIDOR AREAS Z.R. 28-41 - DENSITY PER CORRIDOR

A - CORRIDORS AREA

A1	4' - 2"	x	10' - 5"	=	43.40	
A2	0' - 11"	x	4' - 2"	=	3.82	
A3	15' - 7"	x	4' - 7"	=	71.42	
A4	7' - 3"	x	5' - 3"	=	38.06	
A5	9' - 0"	x	5' - 9"	=	51.75	SQ.FT.

TOTAL CORRIDORS A AREA **208.46**

A CORRIDORS (208.46) SERVE LESS THAN 11 D.U. ==>

CORRIDORS ARE 50% DEDUCTABLE

7TH FLR. DEDUCTIONS (BLDNG. 'A' 1035 FULTON)

CHAPTER 8 QUALITY HOUSING ZR 28-41

CORRIDORS (50%) =(A1+A2+A3+A5) x 50% = 208.46 x 0.5 = 104.23

TC - TRUSH CHUTE SHAFT = 2'-4" x 2'-4" 5.56

RS - REFUSE STORAGE = 4'-0" X 3'-0" 12.00

TOTAL QUALITY HOUSING DEDUCTIONS 121.79

MECHANICAL DEDUCTIONS

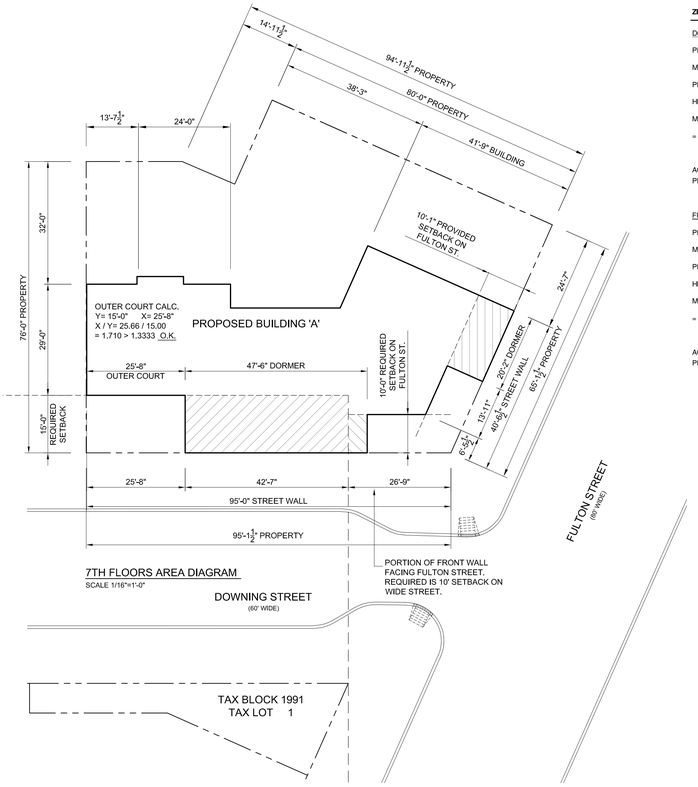
TYPE	QUANT.	DESIGNATION	SIZE	AREA	TOTAL
F1	4	PL. CHASE	0' - 3" x 5' - 6"	1.38	5.50
F2	3	PL. CHASE	0' - 6" x 5' - 6"	2.75	8.25
F3	1	PL. CHASE	1' - 0" x 5' - 6"	5.50	5.50
D1	1	TC VENT	0' - 11" x 1' - 2"	1.07	1.07
D2	2	MECH. VENT	1' - 5" x 2' - 5"	3.42	6.85
D5	2	MECH. VENT	2' - 6" x 2' - 5"	6.04	12.08
M2	4	MECH. CLOSET	1' - 11" x 2' - 2"	4.15	16.61
M4	1	MECH. CLOSET	* * *	6.82	6.82

TOTAL MECHANICAL DEDUCTIONS 62.68

TOTAL EXTERIOR WALL DEDUCTIONS 120.76

TOTAL DEDUCTIONS 305.23

* * * SEE DIAGRAM



7TH FLOORS AREA DIAGRAM
SCALE 1/16"=1'-0"

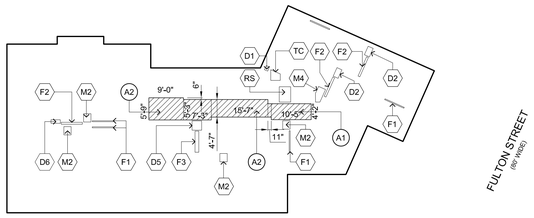
ZR-23-621 (c) PROPOSED DORMERS CALCULATIONS

DOWNING STREET:

PROPOSED STREET WALL AT MAX. BASE HEIGHT	=	95'-0" FT.
MAX. ALLOWABLE FRONT WALL HEIGHT	=	65'-0" FT.
PROPOSED FRONT WALL HEIGHT AT ROOF OF 7TH FL.	=	74'-7" FT.
HEIGHT OVER MAX. BASE HEIGHT = 74'-7" - 65'-0"	=	9.58 FT.
MAX. ALLOWABLE DORMER WIDTH = 60 - 9.58	=	50.42 %
= 0.5042 x 95'-0"	=	47.90 FT.
AGGREGATE DORMER WIDTH @ DOWNING ST.	=	47.50 FT.
PROPOSED DORMER WIDTH = 47.50 < 47.90		**IN COMPLIANCE**

FULTON STREET:

PROPOSED STREET WALL AT MAX. BASE HEIGHT	=	40'-6.5" FT.
MAX. ALLOWABLE FRONT WALL HEIGHT	=	65'-0" FT.
PROPOSED FRONT WALL HEIGHT AT ROOF OF 7TH FL.	=	74'-7" FT.
HEIGHT OVER MAX. BASE HEIGHT = 74'-7" - 65'-0"	=	9.58 FT.
MAX. ALLOWABLE DORMER WIDTH = 60 - 9.58	=	50.42 %
= 0.5042 x 40'-6.5"	=	20.44 FT.
AGGREGATE DORMER WIDTH @ FULTON ST.	=	20.17 FT.
PROPOSED DORMER WIDTH = 20.17 < 20.44		**IN COMPLIANCE**

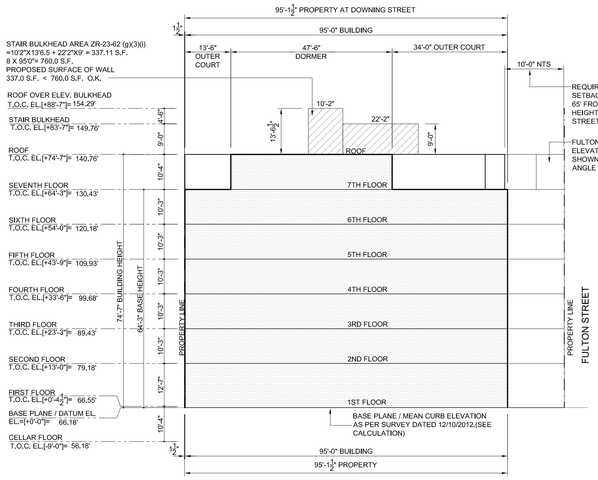


AREA DESIGNATED AS TYPE 'A' - CORRIDORS w/OUT WINDOWS

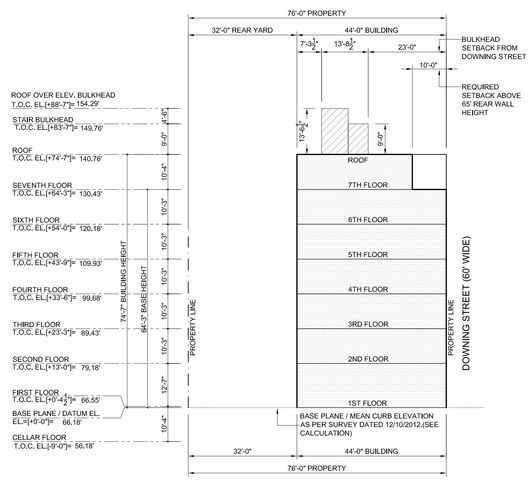
AREA DESIGNATED AS TYPE 'B' CORRIDORS w/WINDOWS

DOWNING STREET
(60' WIDE)

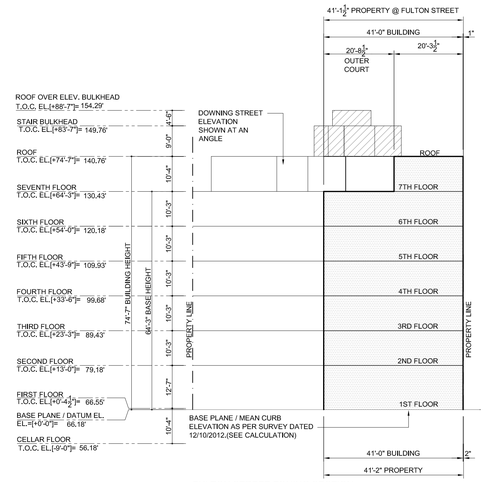
7TH FLOOR AREA CALCULATIONS
SCALE 1/16"=1'-0"



DOWNING STREET ZONING SECTION
SCALE 1/16"=1'-0"



ZONING SECTION
SCALE 1/16"=1'-0"



FULTON STREET ZONING SECTION
SCALE 1/16"=1'-0"

SUMMARY OF QUALITY HOUSING DEDUCTIONS

FLR.	CORRIDOR 50%	CORRIDOR 100%	TRASH CHUTE	REFUSE STORAGE	LAUNDRY FACILITY	TOTAL DEDUCT.
CELLAR					291.85	0.00
1ST		464.41	5.56	0.00		469.97
2ND		313.41	5.56	12.00		330.97
3RD		313.41	5.56	12.00		330.97
4TH		313.41	5.56	12.00		330.97
5TH		313.41	5.56	12.00		330.97
6TH		313.41	5.56	12.00		330.97
7TH	104.23		5.56	12.00		121.79
TOTAL	104.23	2,031.47	38.92	72.00	291.85	2,246.52

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York, NY 10001 212-268-0600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ZONING DIAGRAMS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	Z003.00

REGISTERED ARCHITECT BARRY ISAAC STERN No. 018238 STATE OF NEW YORK

NAME: S:\ALLWORKS\1035 FULTON STREET\PRES\ARCHITECTURAL\2013-12-09 FILING SET NO DOUBLE RETAIL\Z001-003.DWG DATE: JAN 16, 2014 TIME: 1:25 PM

EXTERIOR WALL THICKNESS DEDUCTION CODE ANALYSIS

APLLICABLE CODES

ZONING NY CITY ZONING RESOLUTION - LATEST EDITION

ENERGY 2011 NEW YORK CITY ENERGY CONSERVATION CODE

2007 ASHRAE 90.1 - ENERGY STANDARD FOR BUILDINGS

2009 ASHRAE HANDBOOK - FUNDAMENTALS

ZR-12-10 (12)# ABOVE GRADE EXTERIOR WALL THICKNESS IN EXCESS OF 8" MAY BE DEDUCTED FROM THE FLOOR AREA CALCULATION WHEN THE FOLLOWING CONDITIONS ARE MET (FOR THE PURPOSE OF CALCULATING COMPLIANCE ONLY WALLS ABOVE GRADE ADJOINING SUCH WALL SHALL BE INCLUDED):
1 BUILDING CONSTRUCTED AFTER APRIL 30, 2012 **IN COMPLIANCE**
2 THE AREA WEIGHTED AVERAGE U-FACTOR (AWVU) OF OPAQUE ABOVE-GRADE ASSEMBLIES IS MIN. 20% BETTER THAN THE AWVU AS PRESCRIBED BY NYCECC (SEE TABLE BELOW AND EN003) **IN COMPLIANCE**
3 THE AREA WEIGHTED AVERAGE U-FACTOR (AWVU) OF ALL ABOVE-GRADE ASSEMBLIES IS MIN. 10% BETTER THAN THE AWVU AS PRESCRIBED BY NYCECC. SEE AWVU CALCULATIONS AND SUMMARY BELOW **IN COMPLIANCE**

NYCECC 202 BUILDING CLASSIFICATION - COMMERCIAL GROUP R BUILDING

NYECC 301 CLIMATE ZONE 4A

NYECC 502.1.2 BUILDING ENVELOPE REQUIREMENTS SUMMARY - OPAQUE ASSEMBLIES

	ALL OTHER COMMERCIAL	GROUP R >3 STORIES	
WALLS ABOVE GRADE			
MASS	U - 0.104	U - 0.090	
METAL BUILDINGS	U - 0.084	U - 0.084	
METAL FRAMED	U - 0.064	U - 0.064	
WOOD FRAMED AND OTHERS	U - 0.089	U - 0.064	
BELOW-GRADE WALLS	C - 1.140	C - 0.119	

NYECC 502.3.1 VERTICAL FENESTRATION SHALL BE MAX. 40% OF ABOVE GRADE WALL AREA.

FRONT WALL 1 FENESTRATION	=	36.21%	**IN COMPLIANCE**
FRONT WALL 2 FENESTRATION	=	36.06%	**IN COMPLIANCE**
SIDE WALL 1 FENESTRATION	=	0.00%	**IN COMPLIANCE**
SIDE WALL 2 FENESTRATION	=	0.70%	**IN COMPLIANCE**
BACK WALL FENESTRATION	=	20.13%	**IN COMPLIANCE**

1 COMPLIANCE IS DEMONSTRATED THROUGH U-FACTOR ALTERNATIVE APPROACH USING AREA WEIGHTED AVERAGE U-FACTOR (AWAU) CALCULATION FOR EACH EXTERIOR WALL AND IT'S COMPLIANCE WITH THE REQUIREMENTS OF ZR 12-10. FOR THE PURPOSE OF THESE COMPUTATIONS ONLY, THE EXTERIOR WALLS WERE DESIGNATED AS TYPES A, B, C & K (SEE LEGEND) AND AS FRONT, SIDE AND BACK WALLS (SEE BELOW)
2 THE BUILDING HAVING MULTIPLE FACES THE EXTERIOR WALLS WERE FURTHER DESIGNATED AS FOLLOWS:
2.1 ALL WALLS FACING OR ON DOWNING STREET = FRONT WALL 1
2.2 ALL WALLS FACING OR ON FULTON STREET = FRONT WALL 2
2.3 WALLS FACING THE ADJACENT PROPERTY AT NORTHERN SIDE (LEFT SIDE) = SIDE WALL 1
2.4 ALL WALLS FACING OR IN THE INTERIOR YARD = BACK WALL 1 AND 2
2.5 WALLS FACING THE ADJACENT PROPERTY AT WESTERN SIDE (RIGHT SIDE) = SIDE WALL 2
3 U FACTOR OF EACH WALL TYPE IS COMPUTED USING R-VALUE OF IT'S COMPONENTS AS DERIVED FROM:
3.1 2009 ASHRAE HANDBOOK - FUNDAMENTALS, CHAPTER 24, 25 & 26.
3.2 2007 ASHRAE 90.1, TABLE A9.2B-EFFECTIVE INSULATION/FRAMING R-VALUE FOR WALL INSULATION BETWEEN STEEL STUDS.
3.3 COMMERCIALLY AVAILABLE R-VALUES OF BUILDING MATERIALS.

SUMMARY OF ENERGY CODE COMPLIANCE

WALL TYPE	CODE PRESCRIBED U-FACTOR (NYECC 502.1.2)		ACTUAL U-FACTOR (SEE Z003)		REMARKS
	OPAQUE ASSEMBLIES	ALL ASSEMBLIES	OPAQUE ASSEMBLIES	ALL ASSEMBLIES	
FRONT WALL	0.0900	0.2065	0.0529 **41.18% BTC**	0.1721 **16.67% BTC**	**IN COMPLIANCE**
BACK WALL	0.0900	0.1524	0.0592 **34.25% BTC**	0.1217 **20.12% BTC**	**IN COMPLIANCE**
SIDEWALL 1	0.0900	0.0900	0.0589 **34.51% BTC**	0.0589 **34.51% BTC**	**IN COMPLIANCE**
SIDEWALL 2	0.0900	0.0923	0.0590 **34.43% BTC**	0.0613 **33.56% BTC**	**IN COMPLIANCE**

FIRE RATING ANALYSIS

APPLICABLE CODES NYC BC 2008 CHAPTER 14 AND CHAPTER 26

NYC BC T601 CONSTRUCTION TYPE I-B
EXTERIOR BEARING WALLS ARE REQUIRED TO BE 2 HOUR FIRE-RATED.

PROVIDED ARE EXTERIOR MASONRY WALL TYPES 'A' THRU 'K' WITH FIRE-RATING OF 2, 3, AND 4 HOURS BASED ON UL DESIGN ASSEMBLIES #U902 (4 HRS), #U904-U906 (3 HRS), AND #U912 (2 HRS). **IN COMPLIANCE**

NYC BC 719.1.1
INSULATING MATERIAL IN NON-COMBUSTIBLE CONSTRUCTION MUST COMPLY WITH ASTM E136 AND HAVE FLAME SPREAD < 25 AND SMOKE-DEVELOPMENT INDEX < 50.

NYC BC 719.3 "EXPOSED INSULATION"
INSULATING MATERIALS MAY BE INSTALLED EXPOSED IN ANY TYPE OF CONSTRUCTION PROVIDED THEY HAVE A FLAME SPREAD INDEX < 25 AND A SMOKE-DEVELOPMENT INDEX < 50.

1404.11 "EXTERIOR INSULATION FINISH SYSTEM (EIFS)"
EIFS SHALL BE CONSTRUCTED IN ACCORDANCE WITH REQUIREMENTS OF ANSI EIMA 99A, NYC BC CHAPTER 25, ASTM C926, ASTE84 FOR SURFACE BURNING CHARACTERISTICS OF FOAM PLASTIC INSULATION.

NYC BC 1405.8.3.4 "FIRE RATED ASSEMBLY"
THE INCLUSION OF EIFS OVER A LISTED FIRE RATED ASSEMBLY SHALL NOT BE DEEMED TO REDUCE THE TESTED OR LISTED RATING. **IN COMPLIANCE**

NYC BC 2603.4.1.1 "THERMAL INSULATION"
FOAM PLASTIC INSULATION MAY BE USED IN MASONRY OR CONCRETE FIRE WALL.

NYC BC 2603.5.4
FOAM PLASTIC INSULATION SHALL HAVE A MAXIMUM THICKNESS OF 4" AND SHALL HAVE A FLAME SPREAD INDEX < 25 AND A SMOKE-DEVELOPMENT INDEX < 450 IN ACCORDANCE WITH ASTM E84. PREFABRICATED ALUMINUM PANELS ARE EXEMPT FROM THIS REQUIREMENT.

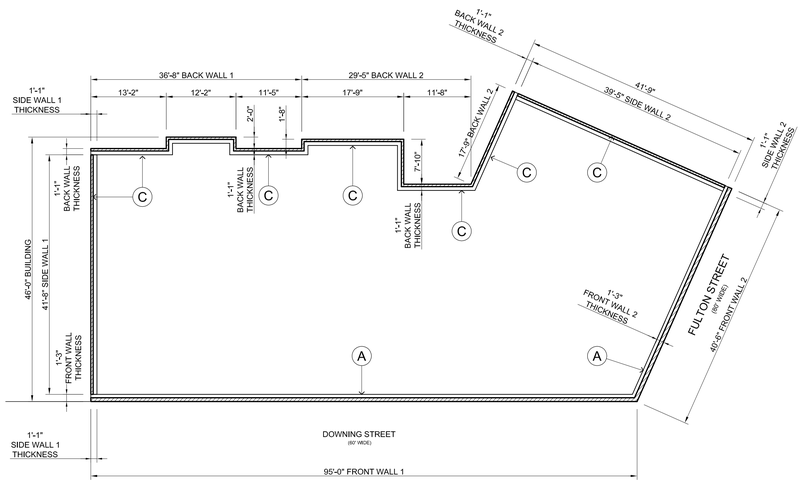
PROVIDED INSULATION OF MAX 2" THICKNESS. **IN COMPLIANCE**

NYC BC 2603.8
FOAM PLASTIC INSULATION DOES NOT REQUIRE SPECIAL APPROVAL WHERE THEY ARE SPECIFICALLY APPROVED BY LARGE-SCALE TESTS SUCH AS FM4880, UL1040, NFPA 286, OR UL1715. **IN COMPLIANCE**

SEE UL DESIGN NUMBERS ON WALL DETAILS.

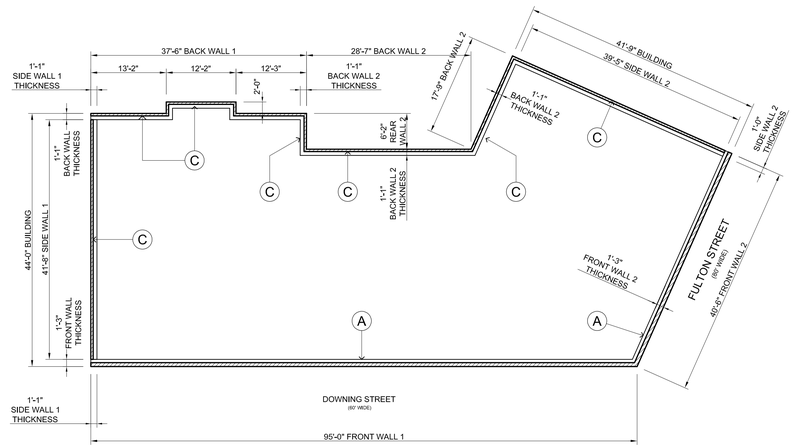
KEY TO DESIGNATIONS

Wa ENTIRE WALL AREA. SMALL CASE LETTER SIGNIFIES WALL TYPE
Oa OPAQUE WALL AREA. SMALL CASE LETTER SIGNIFIES WALL TYPE
Fa FENESTRATION AREA. SMALL CASE LETTER SIGNIFIES WALL TYPE



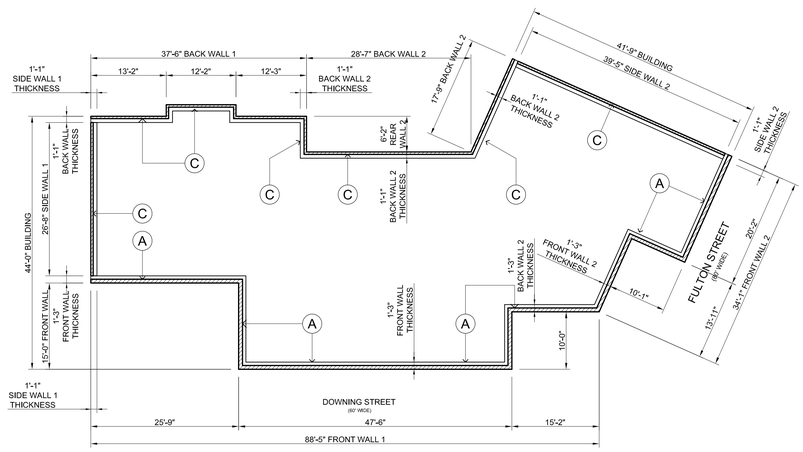
1ST FLOOR
SCALE: 3/32" = 1'-0"

ACTUAL WALL THICKNESS
DEDUCTION IN EXCESS OF 8" AS PER ZR 12-10



2ND-6TH FLOORS
SCALE: 3/32" = 1'-0"

ACTUAL WALL THICKNESS
DEDUCTION IN EXCESS OF 8" AS PER ZR 12-10



7TH FLOOR
SCALE: 3/32" = 1'-0"

ACTUAL WALL THICKNESS
DEDUCTION IN EXCESS OF 8" AS PER ZR 12-10

SUMMARY OF DEDUCTION OF EXTERIOR WALL THICKNESS IN EXCESS OF 8" (AS PER ZR 12-10)

	WALL LOCATION	WALL TYPE	AWAU* OPAQUE ASSEMBLY CODE PRESCRIBED	AWAU* OPAQUE ASSEMBLY ACTUAL	AWAU* ALL ASSEMBLIES CODE PRESCRIBED	AWAU* ALL ASSEMBLIES ACTUAL	ACTUAL THICKNESS (INCHES)	LENGTH OF WALL (FEET)	ACTUAL AREA (SQ.FT.)	DEDUCTION THICKNESS (INCHES)	DEDUCTION AREA (SQ.FT.)	SUPPORTING DOCUMENTATION
1ST FLOOR	FRONT WALL 1 15" THICK	A	0.0900 NYECC 502.1.2	0.0529 **41.18% BTC**	0.2065	0.1721 **16.67% BTC**	15 in.	95' 0"	118.75	3 in.	23.75	WALL TYPES Z003, EN001
	FRONT WALL 2 15" THICK	A	0.0900 NYECC 502.1.2	0.0529 **41.18% BTC**	0.2065	0.1721 **16.67% BTC**	15 in.	40' 6"	50.63	3 in.	10.13	
	BACK WALL 1 13" THICK	C	0.0900 NYECC 502.1.2	0.0592 **34.25% BTC**	0.1524	0.1217 **20.12% BTC**	13 in.	40' 9	44.15	4 in.	13.58	WALL SECTIONS Z003, EN001
	BACK WALL 2 13" THICK	C	0.0900 NYECC 502.1.2	0.0592 **34.25% BTC**	0.1524	0.1217 **20.12% BTC**	13 in.	56' 8	61.39	4 in.	18.89	
	SIDE WALL 1 13" THICK	C	0.0900 NYECC 502.1.2	0.0589 **34.51% BTC**	0.0900	0.0589 **34.51% BTC**	13 in.	68' 8	74.39	4 in.	22.89	A505 THRU A508
	SIDE WALL 2 13" THICK	C	0.0900 NYECC 502.1.2	0.0590 **34.43% BTC**	0.0923	0.0613 **33.56% BTC**	13 in.	81' 4	88.11	4 in.	27.11	
	TOTAL 1ST FL								**437.41**		**116.35**	
2-6TH FLOOR	FRONT WALL 1 15" THICK	A	0.0900 NYECC 502.1.2	0.0529 **41.18% BTC**	0.2065	0.1721 **16.67% BTC**	15 in.	95' 0"	118.75	3 in.	23.75	
	FRONT WALL 2 15" THICK	A	0.0900 NYECC 502.1.2	0.0529 **41.18% BTC**	0.2065	0.1721 **16.67% BTC**	15 in.	40' 6"	50.63	3 in.	10.13	
	BACK WALL 1 13" THICK	C	0.0900 NYECC 502.1.2	0.0592 **34.25% BTC**	0.1524	0.1217 **20.12% BTC**	13 in.	41' 7"	45.05	4 in.	13.86	
	BACK WALL 2 13" THICK	C	0.0900 NYECC 502.1.2	0.0592 **34.25% BTC**	0.1524	0.1217 **20.12% BTC**	13 in.	52' 6"	56.88	4 in.	17.50	
	SIDE WALL 1 13" THICK	C	0.0900 NYECC 502.1.2	0.0589 **34.51% BTC**	0.0900	0.0589 **34.51% BTC**	13 in.	41' 8"	45.14	4 in.	13.89	
	SIDE WALL 2 13" THICK	C	0.0900 NYECC 502.1.2	0.0590 **34.43% BTC**	0.0923	0.0613 **33.56% BTC**	13 in.	39' 5"	42.70	4 in.	13.14	
	TOTAL PER FL.								359.14		**92.26**	
	TOTAL 2-6TH								**1795.69**		**461.32**	
7TH FLOOR	FRONT WALL 1 15" THICK	A	0.0900 NYECC 502.1.2	0.0529 **41.18% BTC**	0.2065	0.1721 **16.67% BTC**	15 in.	113' 5"	141.77	3 in.	28.35	
	FRONT WALL 2 15" THICK	A	0.0900 NYECC 502.1.2	0.0529 **41.18% BTC**	0.2065	0.1721 **16.67% BTC**	15 in.	44' 2"	55.21	3 in.	11.04	
	BACK WALL 1 13" THICK	C	0.0900 NYECC 502.1.2	0.0592 **34.25% BTC**	0.1524	0.1217 **20.12% BTC**	13 in.	41' 7"	45.05	4 in.	13.86	
	BACK WALL 2 13" THICK	C	0.0900 NYECC 502.1.2	0.0592 **34.25% BTC**	0.1524	0.1217 **20.12% BTC**	13 in.	52' 6"	56.88	4 in.	17.50	
	SIDE WALL 1 13" THICK	C	0.0900 NYECC 502.1.2	0.0589 **34.51% BTC**	0.0900	0.0589 **34.51% BTC**	13 in.	68' 8"	74.39	4 in.	22.89	
	SIDE WALL 2 13" THICK	C	0.0900 NYECC 502.1.2	0.0590 **34.43% BTC**	0.0923	0.0613 **33.56% BTC**	13 in.	81' 4"	88.11	4 in.	27.11	
	TOTAL 7TH FL								**461.40**		**120.76**	TOTAL AMOUNT OF FLOOR AREA BEING DEDUCTED DUE TO EXTERIOR WALL THICKNESS IN EXCESS OF 8" AS PER
	BLDG. TOTAL								**2,694.51**		**698.42**	

* AWAU = AREA WEIGHTED AVERAGE U-FACTOR
* BTC = BETTER THAN CODE

WALLS LEGEND

(A) NEW CMU WALL TYPE A
UL DESIGN #U 902 2HR RATED
U FACTOR (BTU/F-ft2-hr) = 0.0529
ACTUAL WALL THICKNESS = 15"
ZR 12-10 ALLOWABLE DEDUCTION = 7"

(B) NEW BELOW GRADE FOUND. WALL B
U FACTOR (BTU/F-ft2-hr) = 0.0461
ACTUAL WALL THICKNESS = 14"
ZR 12-10 ALLOWABLE DEDUCTION = NA
NO DEDUCTION TAKEN

(C) NEW CMU WITH STUCCO WALL TYPE C
UL DESIGN #U 906 2HR RATED
U FACTOR (BTU/F-ft2-hr) = 0.0592
ACTUAL WALL THICKNESS = 13"
ZR 12-10 ALLOWABLE DEDUCTION = 5"

(E) NEW METAL STUDS WALL TYPE E
UL DESIGN #U 425 1HR RATE
U FACTOR (BTU/F-ft2-hr) = 0.0578
ACTUAL WALL THICKNESS = 9"
ZR 12-10 ALLOWABLE DEDUCTION = 1"

(K) NEW CMU WALL TYPE K
UL DESIGN #U 906 2HR RATE
U FACTOR (BTU/F-ft2-hr) = 0.0658
ACTUAL WALL THICKNESS = 12"
ZR 12-10 ALLOWABLE DEDUCTION = 4"
NO DEDUCTION TAKEN

FRONT WALL

U FACTOR WEIGHTED AVERAGE OF OPAQUE WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
FRONT WALL	FRONT WALL 1 TYPE A	4,610.55	NA	18.89	0.0900	0.0529	414.95	244.07
	FRONT WALL 2 TYPE A	1,843.58	NA	18.89	0.0900	0.0529	165.92	97.60
TOTAL		**6,454.13**	**0.00**	**37.78**	**0.1800**	**0.1059**	**580.87**	**341.67**

		CODE REQ.	80% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.0900**	**0.0720**	**0.0529**
				41.18% BETTER THAN CODE

U FACTOR WEIGHTED AVERAGE OF ALL WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
FRONT WALL	FRONT WALL 1 TYPE A	4,610.55	NA	18.89	0.0900	0.0529	414.95	244
	FENESTRATION (Fa)	2778.17	NA		0.4000	0.3700	1111.27	1028
	FRONT WALL 2 TYPE A	1,843.58	NA	18.89	0.0900	0.0529	165.92	98
	FENESTRATION (Fa)	1,105.83	NA		0.4000	0.3700	442.33	409
TOTAL		**10,338.13**	**0.00**	**37.78**	**0.9800**	**0.8459**	**2,134.47**	**1,778.75**

		CODE REQ.	90% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.2065**	**0.1858**	**0.1721**
				16.67% BETTER THAN CODE

FOR EXTERIOR WALL DIAGRAMS AND FENESTRATION CALCULATIONS SEE Z004

SIDE WALL 1

U FACTOR WEIGHTED AVERAGE OF OPAQUE WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
SIDE WALL	SIDE WALL 1 TYPE A	117.17	NA	18.89	0.0900	0.0529	10.55	6.20
	SIDE WALL 1 TYPE C	3094.99	NA	16.90	0.0900	0.0592	278.55	183
TOTAL		**3,212.15**	**0.00**	**35.79**	**0.1800**	**0.1121**	**289.09**	**189.34**

		CODE REQ.	80% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.0900**	**0.0720**	**0.0589**
				34.51% BETTER THAN CODE

U FACTOR WEIGHTED AVERAGE OF ALL WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
SIDE WALL 1	SIDE WALL 1 TYPE A	117.17	NA	18.89	0.0900	0.0529	10.55	6.20
	FENESTRATION (Fa) & (Fc)	0.00	NA		0.4000	0.3700	0.00	0
	SIDE WALL 1 TYPE C	3094.99	NA	16.90	0.0900	0.0592	278.55	183
TOTAL		**3,212.15**	**0.00**	**35.79**	**0.5800**	**0.4821**	**289.09**	**189.34**

		CODE REQ.	90% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.0900**	**0.0810**	**0.0589**
				34.51% BETTER THAN CODE

BACK WALL

U FACTOR WEIGHTED AVERAGE OF OPAQUE WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
BACK WALL	BACK WALL TYPE C	5361.33	NA	16.90	0.0900	0.0592	482.52	317
TOTAL		**5,361.33**	**0.00**	**16.90**	**0.0900**	**0.0592**	**482.52**	**317.24**

		CODE REQ.	80% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.0900**	**0.0720**	**0.0592**
				34.25% BETTER THAN CODE

U FACTOR WEIGHTED AVERAGE OF ALL WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
BACK WALL	BACK WALL TYPE C	5361.33	NA	16.90	0.0900	0.0592	482.52	317
	FENESTRATION (Fc)	1351.17	NA		0.4000	0.3700	540.47	500
TOTAL		**6,712.50**	**0.00**	**16.90**	**0.4900**	**0.4292**	**1,022.99**	**817.17**

		CODE REQ.	90% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.1524**	**0.1372**	**0.1217**
				20.12% BETTER THAN CODE

SIDE WALL 2

U FACTOR WEIGHTED AVERAGE OF OPAQUE WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
SIDE WALL 2	SIDE WALL 2 TYPE A	62.50	NA	18.89	0.0900	0.0529	5.63	3.31
	SIDE WALL 2 TYPE C	2384.33	NA	16.90	0.0900	0.0592	214.59	141
TOTAL		**2,446.83**	**0.00**	**35.79**	**0.1800**	**0.1121**	**220.22**	**144.39**

		CODE REQ.	80% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.0900**	**0.0720**	**0.0590**
				34.43% BETTER THAN CODE

U FACTOR WEIGHTED AVERAGE OF ALL WALL ASSEMBLIES

WALL LOCATION	COMPONENT DESRIPTION	AREA	R-VALUE CODE REQ.	R-VALUE ACTUAL	U FACTOR CODE REQ.	U FACTOR ACTUAL	UA (U * AREA) CODE REQ.	UA (U * AREA) ACTUAL
SIDE WALL 2	SIDE WALL 2 TYPE A	62.50	NA	18.89	0.0900	0.0529	5.63	3.31
	FENESTRATION (Fa) & (Fc)	18.33	NA		0.4000	0.3700	7.33	7
	SIDE WALL 2 TYPE C	2384.33	NA	16.90	0.0900	0.0592	214.59	141
TOTAL		**2,465.17**	**0.00**	**35.79**	**0.5800**	**0.4821**	**227.55**	**151.31**

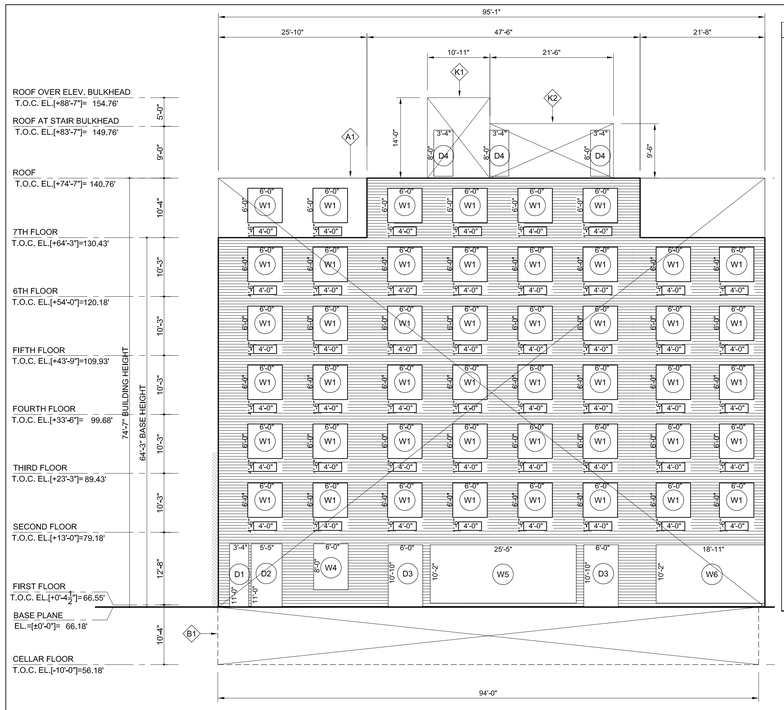
		CODE REQ.	90% of CODE	ACTUAL
WEIGHTED AVERAGE U FACTOR =	UA/AREA =	**0.0923**	**0.0831**	**0.0613**
				33.56% BETTER THAN CODE

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: bilevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York, NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EXTERIOR WALL THICKNESS DEDUCTION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4. 5.	Z-004.00

REGISTERED ARCHITECT ISAAC & STERN ARCHITECTS P.C. 018238 STATE OF NEW YORK



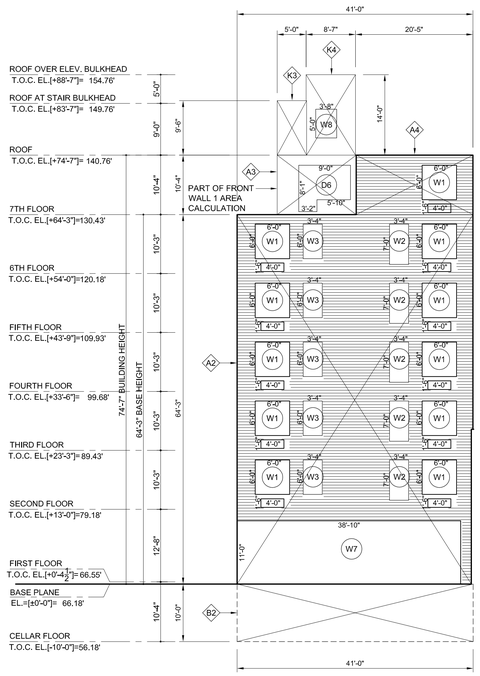
FRONT WALL 1 DIAGRAM @ DOWNING ST.

SCALE 3/32"=1'-0"

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

FRONT WALL 1

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
FRONT WALL 1 TOTAL AREA CALC (Wa)					
A3	95' - 1" x 74' - 7" =	7091.63 S.F.			
A4	13' - 9" x 10' - 4" =	142.08 S.F.			
A5	15' - 0" x 10' - 4" =	155.00 S.F.		7388.72	WALL A
A6	10' - 11" x 14' - 0" =	152.83 S.F.			
K2	21' - 6" x 9' - 6" =	204.25 S.F.		357.08	WALL K
TOTAL Wa = A1 + A3 + A6 + K1 + K2			=	**7,745.80 S.F.**	
= 7,091.63 + 142.08 + 155.00 + 152.83 + 204.25					
FRONT WALL 1 FENESTRATION AREA (Fa)					
W1	5' - 10" x 7' - 0" + 4' - 0" x 1' - 6" =	46.83	46	2154.33	
W4	6' - 0" x 8' - 0" =	48.00	1	48.00	
W5	25' - 5" x 11' - 8" =	296.53	1	296.53	
W6	18' - 11" x 11' - 8" =	220.69	1	220.69	
D1	3' - 4" x 12' - 6" =	41.67	1	41.67	
D2	5' - 5" x 12' - 6" =	67.71	1	67.71	
D3	6' - 0" x 12' - 6" =	75.00	2	150.00	
D4	9' - 0" x 7' - 0" + 6' - 10" x 2' - 1" =	77.24	2	154.47	
TYPE A FENESTRATION AREA (Fa)			=	**3,133.40**	
OPAQUE WALL AREA CALCULATION (Oa)			=		
Wa - Fa =	7388.72 - 3133.40		=	**4,255.31**	
TYPE K FENESTRATION AREA (Fk)					
D4	3' - 4" x 8' - 0" =	26.67	3	26.67	
TYPE K FENESTRATION AREA (Fk)			=	**26.67**	
OPAQUE WALL AREA CALCULATION (Ok)			=		
Wk - Fk =	357.08 - 26.67		=	**330.42**	
TOTAL FENESTRATION AREA (Fa+Fk)			=	**3,160.07**	
TOTAL OPAQUE WALL AREA (Oa+Ok)			=	**4,585.73**	
FRONT WALL 1 FENESTRATION AREA (%)			=	**40.80%**	
=Fa / Wa x 100 = 3,160.07 / 7,745.80 x 100					
FRONT WALL 1 TYPE B BELOW GRADE AREA					
B1	94' - 0" x 10' - 0" =	940.00 S.F.			
TOTAL BELOW GRADE AREA			=	**940.00**	



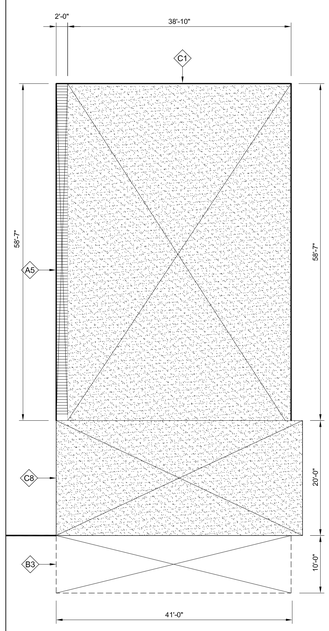
FRONT WALL 2 DIAGRAM @ FULTON ST.

SCALE 3/32"=1'-0"

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

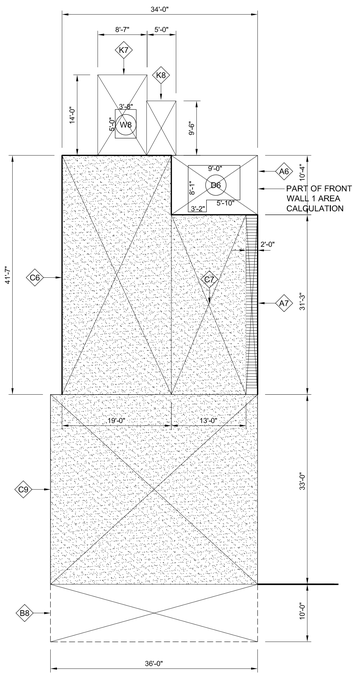
FRONT WALL 2

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
FRONT WALL 2 TOTAL AREA CALC (Wa)					
A2	41' - 0" x 64' - 3" =	2634.25 S.F.			
A1	20' - 5" x 10' - 4" =	210.97 S.F.			
A8	10' - 1" x 10' - 4" =	104.19 S.F.		2949.42	WALL A
K3	5' - 0" x 9' - 6" =	47.50 S.F.			
K4	8' - 7" x 14' - 0" =	120.17 S.F.		167.67	WALL K
TOTAL Wa = A2 + A4 + A8 + K3 + K4			=	**3,117.08 S.F.**	
TYPE A FENESTRATION AREA (Fa)"					
W1	6' - 0" x 6' - 0" + 4' - 0" x 1' - 6" =	42.00	11	462.00	
W2	3' - 4" x 7' - 0" =	23.33	5	116.67	
W3	3' - 4" x 6' - 0" =	20.00	5	100.00	
W7	38' - 10" x 11' - 0" =	427.17	1	427.17	
TOTAL FENESTRATION AREA (Fa)			=	**1,105.83**	
OPAQUE WALL AREA CALCULATION (Oa)			=		
Wa - Fa =	2949.42 - 1105.83		=	**1,843.58**	
TYPE K FENESTRATION AREA (Fk)"					
W8	3' - 8" x 5' - 0" =	18.33	1	18.33	
TOTAL FENESTRATION AREA (Fk)			=	**18.33**	
OPAQUE WALL AREA CALCULATION (Ok)			=		
Wk - Fk =	167.67 - 18.33		=	**149.33**	
TOTAL FENESTRATION AREA (Fa+Fk)			=	**1,124.17**	
TOTAL OPAQUE WALL AREA (Oa+Ok)			=	**1,992.92**	
FRONT WALL 2 FENESTRATION AREA (%)			=	**36.06%**	
=Fa/ Wa x 100 = 1,124.17 / 3,117.08 x 100					
FRONT WALL 2 TYPE B BELOW GRADE AREA					
B2	41' - 0" x 10' - 0" =	410.00 S.F.			
TOTAL BELOW GRADE AREA			=	**410.00**	



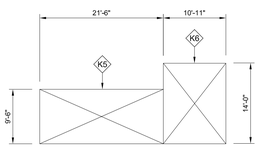
SIDE WALL 1 DIAGRAM

SCALE 3/32"=1'-0"



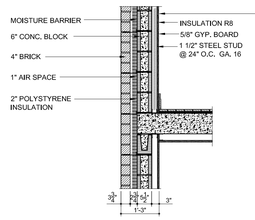
SIDE WALL 2 DIAGRAM

SCALE 3/32"=1'-0"



EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

	WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
SIDE WALL 1	**SIDE WALL 1 TOTAL AREA CALC (Wc)**					
	K5	2' - 0" x 58' - 7" =	117.17 S.F.		117.17	WALL A
	C1	38' - 10" x 58' - 7" =	2274.99 S.F.			
	C2	41' - 0" x 20' - 0" =	820.00 S.F.		3094.99	WALL C
	K6	21' - 6" x 9' - 6" =	204.25 S.F.			
	K7	10' - 11" x 14' - 0" =	152.83 S.F.		357.08	WALL K
	TOTAL Wc = A5 + C1 + K5 + K6			=	**3,569.24 S.F.**	
	= 117.17 + 2,274.99 + 204.25 + 152.83					
	SIDE WALL 1 FENESTRATION AREA (Fc)					
	TOTAL FENESTRATION AREA (Fc)			=	**0.00**	
	OPAQUE WALL AREA CALCULATION			=		
	Wc - Fc =	3569.24 - 0.00		=	**3,569.24**	
	SIDE WALL 1 FENESTRATION AREA (%)			=	**0.00%**	
	=Fc / Wc x 100 = 0.00 / 3,569.24 x 100					
	SIDE WALL 1 BELOW GRADE AREA (Bc)					
	B3	41' - 0" x 10' - 0" =	410.00 S.F.			
	TOTAL BELOW GRADE AREA (Bc)			=	**410.00**	
SIDE WALL 2	**SIDE WALL 2 TOTAL AREA CALC (Wk)**					
	K8	2' - 0" x 31' - 3" =	62.50 S.F.		62.50	WALL A
	C3	19' - 0" x 41' - 7" =	790.08 S.F.			
	C4	13' - 0" x 31' - 3" =	406.25 S.F.			
	C5	36' - 0" x 33' - 0" =	1188.00 S.F.		2384.33	WALL C
	K9	8' - 7" x 14' - 0" =	120.17 S.F.			
	K10	5' - 0" x 9' - 6" =	47.50 S.F.		167.67	WALL K
	TOTAL Wk = A7 + C6 + C7 + K7 + K8			=	**2,614.50 S.F.**	
	= 62.50 + 790.08 + 406.25 + 120.17+ 47.50					
	SIDE WALL 2 FENESTRATION AREA (Fk)					
	W8	3' - 8" x 5' - 0" =	18.33	1	18.33	
	TOTAL FENESTRATION AREA (Fk)			=	**18.33**	
	OPAQUE WALL AREA CALCULATION (Ok)			=		
	Wk - Fk =	167.67 - 18.33		=	**149.33**	
	SIDE WALL 2 FENESTRATION AREA (%)			=	**0.70%**	
	=Fk / Wk x 100 = 18.33 / 2,614.50 x 100					
	SIDE WALL 2 BELOW GRADE AREA					
	B8	36' - 0" x 10' - 0" =	360.00 S.F.			
	TOTAL BELOW GRADE AREA			=	**360.00**	



WALL TYPE A 15" THICK
UL DESIGN #U 902 2HR RATED
U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
4" Brick Veneer	0.80	F-ft2-hr/BTU
1" Air space	0.97	F-ft2-hr/BTU
2" Polystyrene insulation	8.00	F-ft2-hr/BTU
6" Conc Mass. Unit	1.11	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**18.89**	**F-ft2-hr/BTU**

Total Resistance
R Total = 18.89 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

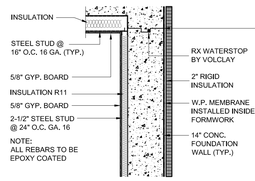
U Factor = 0.05294 BTU/F-ft2-hr

Required by code = 0.0900 T502.1.2

Code compliance = 41.18% Better than code

A SECTION DETAIL @ NEW WALL A

SCALE 1/2"=1'-0"



WALL TYPE B Foundation Wall

U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
2" Polystyrene insulation	8.00	F-ft2-hr/BTU
14" Concrete Aggregate	1.52	F-ft2-hr/BTU
Voltex Membrane	0.06	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**17.59**	**F-ft2-hr/BTU**

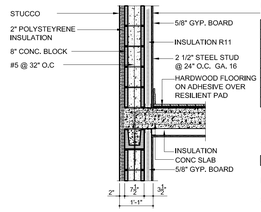
Total Resistance
R Total = 17.59 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

U Factor = 0.05685 BTU/F-ft2-hr

B SECTION DETAIL @ NEW WALL B

SCALE 1/2"=1'-0"



WALL TYPE C 13" THICK
UL DESIGN #U 906 2HR RATED
U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
1" Stucco	0.08	F-ft2-hr/BTU
2" Polystyrene insulation	7.70	F-ft2-hr/BTU
6" Conc Mass. Unit	1.11	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**16.90**	**F-ft2-hr/BTU**

Total Resistance
R Total = 16.90 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

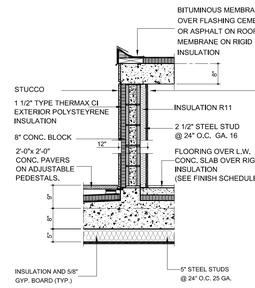
U Factor = 0.05917 BTU/F-ft2-hr

Required by code = 0.0900 T502.1.2

Code compliance = 34.25% Better than code

C SECTION DETAIL @ NEW WALL C

SCALE 1/2"=1'-0"



WALL TYPE K 12" THICK
UL DESIGN #U 906 2HR RATED
U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
1" Stucco	0.08	F-ft2-hr/BTU
2" Polystyrene insulation	7.70	F-ft2-hr/BTU
6" Metal studs w/ R19 Insul	8.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**17.79**	**F-ft2-hr/BTU**

Total Resistance
R Total = 17.79 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

U Factor = 0.05621 BTU/F-ft2-hr

Required by code = 0.0900 T502.1.2

Code compliance = 37.54% Better than code

K SECTION DETAIL @ BULKHEAD

SCALE 1/2"=1'-0"

	ZR 12-10	ALLOWABLE DEDUCTION	=	7"	-	5/8" Gyp. Board
	B	NEW BELOW GRADE FOUND. WALL		B	-	2" Polystyrene insulation
		U FACTOR (BTU/F-ft2-hr)	=	0.0461	-	14" Concrete Aggregate
		ACTUAL WALL THICKNESS	=	14"	-	Voltex Membrane
	ZR 12-10	ALLOWABLE DEDUCTION	=	NA	-	Wall Batt Insulation R-11
		NO DEDUCTION TAKEN			-	5/8" Gyp. Board
	C	NEW CMU WITH STUCCO WALL TYPE		C	-	1" Stucco
		UL DESIGN #U 906		2HR RATED	-	2" Polystyrene insulation
		U FACTOR (BTU/F-ft2-hr)	=	0.0592	-	8" Conc Mass. Unit
		ACTUAL WALL THICKNESS	=	13"	-	Wall Batt Insulation R-11
	ZR 12-10	ALLOWABLE DEDUCTION	=	5"	-	5/8" Gyp. Board
	E	NEW METAL STUDS WALL TYPE		E	-	1" Stucco
		UL DESIGN #U 425		1HR RATE	-	1" Polyisocyanurate Insulation
		U FACTOR (BTU/F-ft2-hr)	=	0.0578	-	6" Metal studs w/ R19 Insul
		ACTUAL WALL THICKNESS	=	9"	-	5/8" Gyp. Board
	ZR 12-10	ALLOWABLE DEDUCTION	=	1"	-	Inside Air
	K	NEW CMU WALL TYPE		K	-	1" Stucco
		UL DESIGN #U 906		2HR RATE	-	1 1/2" Polystyrene insulation
		U FACTOR (BTU/F-ft2-hr)	=	0.0658	-	6" Conc Mass. Unit
		ACTUAL WALL THICKNESS	=	12"	-	Wall Batt Insulation R-11
	ZR 12-10	ALLOWABLE DEDUCTION	=	4"	-	5/8" Gyp. Board
		NO DEDUCTION TAKEN			-	Inside Air

BUILDING MATERIAL R-VALUES

MATERIAL	R VALUE / INCH hr·ft2 ·F/Btu	R-VALUE / THICKNESS	REF. SOURCE
Air Films			
Exterior		0.17	AF CH26 TABLE 1
Interior Wall		0.68	AF CH26 TABLE 1
Interior Ceiling		0.61	AF CH26 TABLE 1
Air Space			
Minimum 1/2" up to 4"		0.97	AF CH26 TABLE 1
Building Board			
Gypsum Wall Board	1/2"	0.45	AF CH26 TABLE 4
Gypsum Wall Board	5/8"	0.5625	AF CH26 TABLE 4
Masonry and Concrete			
Common Brick	4"	0.8	AF CH26 TABLE 4
Face Brick	4"	0.44	AF CH26 TABLE 4
CMU	4"	0.8	AF CH26 TABLE 4
CMU	6"-8"	1.11	AF CH26 TABLE 4
CMU	12"	1.28	AF CH26 TABLE 4
Concrete 60 PSF	1"	0.52	AF CH26 TABLE 4
GRANITE	1"	0.05	AF CH26 TABLE 4
SANDSTONE/LIMESTONE	1"	0.08	AF CH26 TABLE 4
STUCCO	1"	0.08	AF CH26 TABLE 4

BUILDING MATERIAL R-VALUES CONT.

MATERIAL	R VALUE / INCH hr·ft2 ·F/Btu	R-VALUE / THICKNESS	REF. SOURCE
Insulation			
Fiberglass Batts	3.14-4.30		AF CH26 TABLE 4
3 1/2" Fiberglass Batt		11	COMM./DOW
3 5/8" Fiberglass Batt		13	COMM./DOW
3 1/2" Fiberglass Batt (high density)		15	COMM./DOW
6 1/2" Fiberglass Batt		19	COMM./DOW
8" Fiberglass Batt		25	COMM./DOW
8" Fiberglass Batt (high density)		30	COMM./DOW
9 1/2" Fiberglass Batt		30	COMM./DOW
12" Fiberglass Batt		38	COMM./DOW
Expanded Polystyrene (beadboard)	4		COMM./DOW
Extruded Polystyrene	5		COMM./DOW
Polyurethane (foamed-in-place)	6.25		COMM./DOW
Polyisocyanurate (foil-faced)	7.2		COMM./DOW
Plywood			
Plywood 1/2"	0.75		AF CH26 TABLE 4
Plywood 5/8"	0.85		AF CH26 TABLE 4
Plywood 3/4"	1.08		AF CH26 TABLE 4

EFFECTIVE INSULATION/FRAMING R VALUES FOR ROOF & FLOOR INSULATION BETWEEN STEEL FRAMING

INSULATION R VALUE	FRAMING R VALUE	INSULATION R VALUE	FRAMING R VALUE	REF. SOURCE
R-4	0.97	R-21	17.64	ASHRAE A9.2A
R-8	0.94	R-25	20.25	ASHRAE A9.2A
R-11	0.91	R-30	23.7	ASHRAE A9.2A
R-13	11.7	R-38	28.12	ASHRAE A9.2A
R-15	13.2	R-40	29.2	ASHRAE A9.2A
R-19	16.34	R-45	31.95	ASHRAE A9.2A

EFFECTIVE INSULATION/FRAMING R VALUES FOR WALL INSULATION BETWEEN STEEL FRAMING

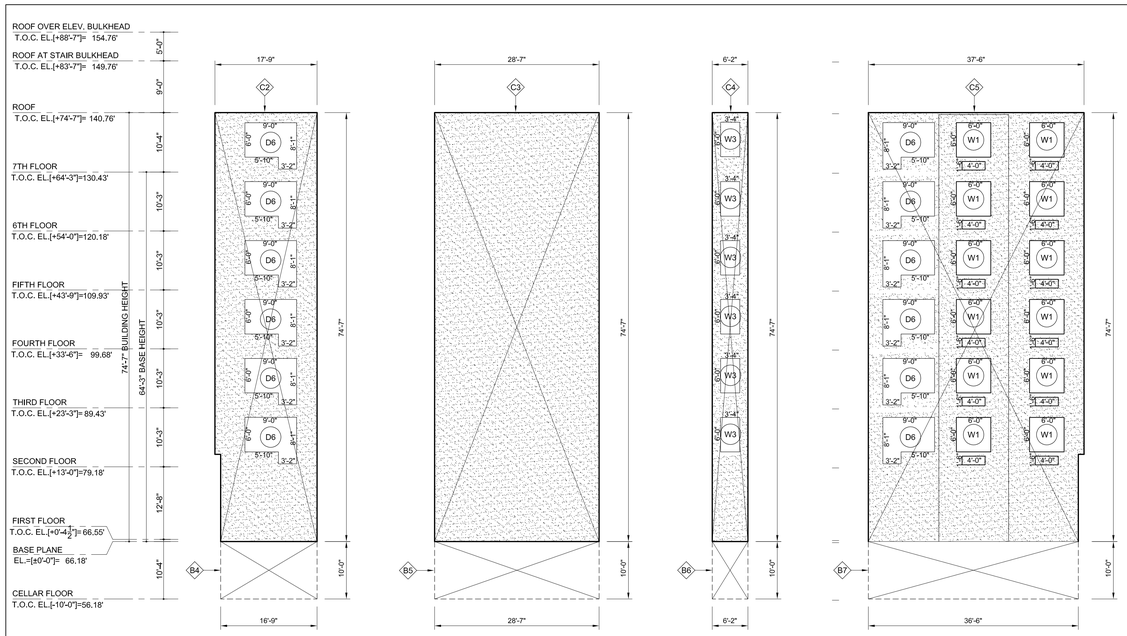
INSULATION R VALUE	CAVITY THICKNESS	FRAMING 16 o.c.	FRAMING 24 o.c.	REF. SOURCE
R-8	2.5	4	4.8	ASHRAE A9.2B
R-11	3.5	5.5	6.6	ASHRAE A9.2B
R-13	3.5	6	7.2	ASHRAE A9.2B
R-15	3.5	6.4	7.8	ASHRAE A9.2B
R-19	6	7.1	8.6	ASHRAE A9.2B
R-21	6	7.4	9	ASHRAE A9.2B
R-25	8	7.8	9.6	ASHRAE A9.2B

AF 2009 ASHRAE HANDBOOK - FUNDAMENTALS
ASHRAE 2007 ASHRAE 90.1 - ENERGY STANDARD FOR BUILDINGS
CIMA CELLULOSE INSULATION MANUFACTURES ASSOCIATION
COMM./DOW THERMAL RESISTANCE OF INSULATION PRODUCTS

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		04	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EXTERIOR WALL AREA CALCULATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT BARRY ISSAC STERN NO. 016258 STATE OF NEW YORK		Z-005.00

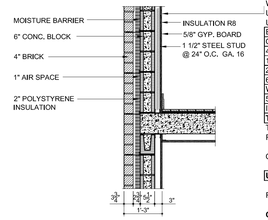


BACK WALL DIAGRAM

SCALE 3/32"=1'-0"

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS					
REAR WALL	WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
	REAR WALL TOTAL AREA CALC (Wc)				
	C2	17' - 9" x 74' - 7" =	1323.85 S.F.		
	C3	28' - 7" x 74' - 7" =	2131.84 S.F.		
	C4	6' - 2" x 74' - 7" =	459.93 S.F.		
	C5	37' - 6" x 74' - 7" =	2796.88 S.F.		
	TOTAL Wc = C2 + C3 + C4 + C5		=		**6,712.50**	
	= 1,323.85 + 2,131.84 + 459.93 + 2,796.88					
	REAR WALL FENESTRATION AREA (Fc)					
	W1	6' - 0" x 6' - 0" + 4' - 0" x 1' - 6" =	42.00	12	504.00	
	W3	3' - 4" x 6' - 0" =	20.00	6	120.00	
	D6	9' - 0" x 6' - 0" + 3' - 2" x 2' - 1" =	60.60	12	727.17	
	TOTAL FENESTRATION AREA (Fc)				**1,351.17**	
	OPAQUE WALL AREA CALCULATION (Oc)					
	Wc - Fc =	6712.50 - 1351.17	=		**5,361.33**	
	REAR WALL FENESTRATION AREA (%)					
	=Fc / Wc x 100 = 1,351.17 / 6,712.50 x 100		=		**20.13%**	
	REAR WALL BELOW GRADE AREA					
	B6	16' - 9" x 10' - 0" =	167.50 S.F.			
	B5	28' - 7" x 10' - 0" =	285.83 S.F.			
	B4	6' - 2" x 10' - 0" =	61.67 S.F.			
	B7	36' - 6" x 10' - 0" =	365.00 S.F.			
	TOTAL BELOW GRADE AREA		=		**880.00**	

	ACTUAL WALL THICKNESS	=	15"	Wall Batt Insulation R-11
ZR 12-10	ALLOWABLE DEDUCTION	=	7"	" 5/8" Gyp. Board
B	NEW BELOW GRADE FOUND. WALL		B	" 2" Polystyrene insulation
	U FACTOR (BTU/F-ft2-hr)	=	0.0461	" 14" Concrete Aggregate
	ACTUAL WALL THICKNESS	=	14"	" Voltex Membrane
ZR 12-10	ALLOWABLE DEDUCTION	=	NA	" Wall Batt Insulation R-11
	NO DEDUCTION TAKEN			" 5/8" Gyp. Board
C	NEW CMU WITH STUCCO WALL TYPE		C	" 1" Stucco
	UL DESIGN #U 906		2HR RATED	" 2" Polystyrene insulation
	U FACTOR (BTU/F-ft2-hr)	=	0.0592	" 8" Conc Mass. Unit
	ACTUAL WALL THICKNESS	=	13"	" Wall Batt Insulation R-11
ZR 12-10	ALLOWABLE DEDUCTION	=	5"	" 5/8" Gyp. Board
E	NEW METAL STUDS WALL TYPE		E	" 1" Stucco
	UL DESIGN #U 425		1HR RATE	" 1" Polyisocyanurate Insulation
	U FACTOR (BTU/F-ft2-hr)	=	0.0578	" 6" Metal studs w/ R19 Insul
	ACTUAL WALL THICKNESS	=	9"	" 5/8" Gyp. Board
ZR 12-10	ALLOWABLE DEDUCTION	=	1"	" Inside Air
K	NEW CMU WALL TYPE		K	" 1" Stucco
	UL DESIGN #U 906		2HR RATE	" 1 1/2" Polystyrene insulation
	U FACTOR (BTU/F-ft2-hr)	=	0.0658	" 6" Conc Mass. Unit
	ACTUAL WALL THICKNESS	=	12"	" Wall Batt Insulation R-11
ZR 12-10	ALLOWABLE DEDUCTION	=	4"	" 5/8" Gyp. Board
	NO DEDUCTION TAKEN			" Inside Air



WALL TYPE A 15" THICK
UL DESIGN #U 902 2HR RATED
U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
4" Brick Veneer	0.80	F-ft2-hr/BTU
1" Air space	0.97	F-ft2-hr/BTU
2" Polystyrene insulation	8.00	F-ft2-hr/BTU
6" Conc Mass. Unit	1.11	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**18.89**	**F-ft2-hr/BTU**

Total Resistance
R Total = 18.89 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

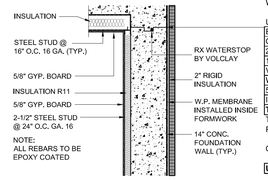
U Factor = 0.05294 BTU/F-ft2-hr

Required by code = 0.0900 T502.1.2

Code compliance = 41.18% Better than code

A SECTION DETAIL @ NEW WALL A

SCALE 1/2"=1'-0"



WALL TYPE B Foundation Wall

U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
2" Polystyrene insulation	8.00	F-ft2-hr/BTU
14" Concrete Aggregate	1.52	F-ft2-hr/BTU
Voltex Membrane	0.06	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**17.59**	**F-ft2-hr/BTU**

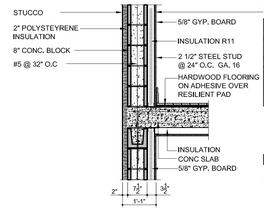
Total Resistance
R Total = 17.59 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

U Factor = 0.05685 BTU/F-ft2-hr

B SECTION DETAIL @ NEW WALL B

SCALE 1/2"=1'-0"



WALL TYPE C 13" THICK
UL DESIGN #U 906 2HR RATED
U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
1" Stucco	0.08	F-ft2-hr/BTU
2" Polystyrene insulation	7.70	F-ft2-hr/BTU
8" Conc Mass. Unit	1.11	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**16.90**	**F-ft2-hr/BTU**

Total Resistance
R Total = 16.90 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

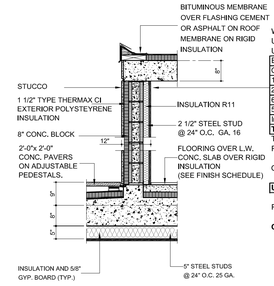
U Factor = 0.05917 BTU/F-ft2-hr

Required by code = 0.0900 T502.1.2

Code compliance = 34.25% Better than code

C SECTION DETAIL @ NEW WALL C

SCALE 1/2"=1'-0"



WALL TYPE K 12" THICK
UL DESIGN #U 906 2HR RATED
U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
1" Stucco	0.08	F-ft2-hr/BTU
2" Polystyrene insulation	7.70	F-ft2-hr/BTU
6" Metal studs w/ R19 Insul	8.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**17.79**	**F-ft2-hr/BTU**

Total Resistance
R Total = 17.79 F-ft2-hr/BTU

Overall Heat Transfer Coeffcient

U Factor = 0.05621 BTU/F-ft2-hr

Required by code = 0.0900 T502.1.2

Code compliance = 37.54% Better than code

K SECTION DETAIL @ BULKHEAD

SCALE 1/2"=1'-0"

BUILDING MATERIAL R-VALUES			
MATERIAL	R VALUE / INCH hr-ft2 -°F/Btu	R-VALUE / THICKNESS	REF. SOURCE
Air Films			
Exterior		0.17	AF CH26 TABLE 1
Interior Wall		0.68	AF CH26 TABLE 1
Interior Ceiling		0.61	AF CH26 TABLE 1
Air Space			
Minimum 1/2" up to 4"		0.97	AF CH26 TABLE 1
Building Board			
Gypsum Wall Board	1/2"	0.45	AF CH26 TABLE 4
Gypsum Wall Board	5/8"	0.5625	AF CH26 TABLE 4
Masonry and Concrete			
Common Brick	4"	0.8	AF CH26 TABLE 4
Face Brick	4"	0.44	AF CH26 TABLE 4
CMU	4"	0.8	AF CH26 TABLE 4
CMU	6"-8"	1.11	AF CH26 TABLE 4
CMU	12"	1.28	AF CH26 TABLE 4
Concrete 60 PSF	1"	0.52	AF CH26 TABLE 4
GRANITE	1"	0.05	AF CH26 TABLE 4
SANDSTONE/LIMESTONE	1"	0.08	AF CH26 TABLE 4
STUCCO	1"	0.08	AF CH26 TABLE 4

BUILDING MATERIAL R-VALUES CONT.			
MATERIAL	R VALUE / INCH hr-ft2 -°F/Btu	R-VALUE / THICKNESS	REF. SOURCE
Insulation			
Fiberglass Batts	3.14-4.30		AF CH26 TABLE 4
3 1/2" Fiberglass Batt		11	COMM./DOW
3 5/8" Fiberglass Batt		13	COMM./DOW
3 1/2" Fiberglass Batt (high density)		15	COMM./DOW
6 1/2" Fiberglass Batt		19	COMM./DOW
8" Fiberglass Batt		25	COMM./DOW
8" Fiberglass Batt (high density)		30	COMM./DOW
9 1/2" Fiberglass Batt		30	COMM./DOW
12" Fiberglass Batt		38	COMM./DOW
Expanded Polystyrene (beadboard)	4		COMM./DOW
Extruded Polystyrene	5		COMM./DOW
Polyurethane (foamed-in-place)	6.25		COMM./DOW
Polyisocyanurate (foil-faced)	7.2		COMM./DOW
Plywood			
Plywood 1/2"	0.75		AF CH26 TABLE 4
Plywood 5/8"	0.85		AF CH26 TABLE 4
Plywood 3/4"	1.08		AF CH26 TABLE 4

EFFECTIVE INSULATION/FRAMING R VALUES FOR ROOF & FLOOR INSULATION BETWEEN STEEL FRAMING				
INSULATION R VALUE	FRAMING R VALUE	INSULATION R VALUE	FRAMING R VALUE	REF. SOURCE
R-4	0.97	R-21	17.64	ASHRAE A9.2A
R-8	0.94	R-25	20.25	ASHRAE A9.2A
R-11	0.91	R-30	23.7	ASHRAE A9.2A
R-13	11.7	R-38	28.12	ASHRAE A9.2A
R-15	13.2	R-40	29.2	ASHRAE A9.2A
R-19	16.34	R-45	31.95	ASHRAE A9.2A

EFFECTIVE INSULATION/FRAMING R VALUES FOR WALL INSULATION BETWEEN STEEL FRAMING				
INSULATION R VALUE	CAVITY THICKNESS	FRAMING 16 o.c.	FRAMING 24 o.c.	REF. SOURCE
R-8	2.5	4	4.8	ASHRAE A9.2B
R-11	3.5	5.5	6.6	ASHRAE A9.2B
R-13	3.5	6	7.2	ASHRAE A9.2B
R-15	3.5	6.4	7.8	ASHRAE A9.2B
R-19	6	7.1	8.6	ASHRAE A9.2B
R-21	6	7.4	9	ASHRAE A9.2B
R-25	8	7.8	9.6	ASHRAE A9.2B

AF 2009 ASHRAE HANDBOOK - FUNDAMENTALS
ASHRAE 2007 ASHRAE 90.1 - ENERGY STANDARD FOR BUILDINGS
CIMA CELLULOSE INSULATION MANUFACTURES ASSOCIATION
COMM./DOW THERMAL RESISTANCE OF INSULATION PRODUCTS

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		04 DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0295 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 28 West 31st St. 9th Floor New York NY 10001 212-268-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EXTERIOR WALL AREA CALCULATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISSAC & STERN ARCHITECTS, P.C. NO. 016258 STATE OF NEW YORK	Z-006.00

DEPT OF BLDGS 320591739 Job Number | E320529482A Scan Code

ABBREVIATIONS

ARCH	ARCHITECT(URAL)
A.C.	AIR CONDITIONER
ACOUS	ACOUSTIC
ABV.	ABOVE
ADJ.	ADJOINING
ADJUST	ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATELY
APPD.	APPROVED
ASPH.	ASPHALT
A.P.	APARTMENT PANEL
B.C.	BOTTOM OF CURB
BET.	BETWEEN
BLDG.	BUILDING
BLK	BLOCK
BOT.	BOTTOM
B.R.	BEDROOM
B.S.A.	BOARD OF STANDARDS AND APPEALS
B.U.	BUILT UP
B.V.	BATH/TOILET VENT
CONT.	CONTRACT
C.	CARPET
C.G.	CORNER GUARD
C.I.	CAST IRON
CAB.	CABINET
CEM	CEMENT
CIND.	CINDER
CLG.	CEILING
CL.	CLOSET
C.L.	CENTER LINE
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONV.	CONVECTOR
CONT.	CONTINOUS
CORR.	CORRIDOR
C.R.	CLOTHES RACK
C.T.	CERAMIC TILE
C.C.	COMMUNICATIONS PANEL
C.M.U.	CONCRETE MASONRY UNIT
C.J.	CONTROL JOINT
C.V.	CORRIDOR VENT
D.	DRYER
D.A.	DINING ALCOVE OR DINING AREA
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.H.	DOUBLE HUNG
DN.	DOWN
DR.	DINING ROOM
D.W.	DISH WASHER
DWG.	DRAWING
DF.	DRINKING FOUNTAIN
DV.	DRYER VENT
EA.	EACH
ELEC.ELECTRIC	
EL.	ELEVATION
ELEV.	ELEVATOR
ENGR.	ENGINEER
EXH.	EXHAUST
EQUIP.	EQUIPMENT
EXIST'G	EXISTING
E.J.	EXPANSION JOINT
EQ.	EQUAL
F.	FOYER
F.A.I.	FRESH AIR INTAKE
F.B.O.FURNISHED BY OTHERS	
FIN.	FINISH
FIXT.	FIXTURE
F.L.	FLOOR
F.D.	FLOOR DRAIN
FLASH	FLASHING
F.P.S.C.	FIREPROOF SELF-CLOSING
F.S.P.	FIRE STANDPIPE
FURR.	METAL FURRING
F.T.	TERRAZO FRITZ TILE
G.	GAS
GALV.	GALVANIZED
GA	GAUGE
G.B.	GRAB BAR
G.C.T.	GLAZED CERAMIC TILE
GEN	GENERAL
GL.	GLASS, GLAZING
GR	GRADE
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALLBOARD
H. CLG	HUNG CEILING
HC	HOLLOW CORE
HT	HEIGHT
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HORIZ	HORIZONTAL
H.R.	HANDRAIL\
HR.	HOUR
HVAC	HEATING, VENTILATING/ AIR CONDITIONING
HTG.	HEATING
I.N.R.	IMPACT NOISE RATING
INSULINSULATION	
INT.	INTERIOR
I.D.	INSIDE DIAMETER
INC.	INCLUDING
JAN. CL	JANITOR CLOSET
JT.	JOINT
K.	KITCHEN, KITCHENETTE
KPL	KICK PLATE
LM	LAMINATED
LAV.	LAVATORY
L.CL.	LINEN CLOSET
LDR.	LEADER
L.P.	LOW POINT
LT. WT.	LIGHT WEIGHT
MACH.	MACHINE
MAINT.	MAINTANENCE
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
M.C.	MEDICINE CABINET
MET.	METAL
MIN.	MINUMUM
MIRR.	MIRROR
M.O.	MASONRY OPENING
MH	MANHOLE
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFF.	OFFICE
OPNG.	OPENING (OPG)
OPP.	OPPOSITE
P.	PAINT
PART.	PARTITION
PART.E.	PARTITON END
PAV'T	PAVEMENT
P.E.	PASSENGER ELEVATOR
PERF.	PERFORATED
PL/P.L.	PLATE, PROPERTY LINE
PLAST	PLASTER
POL.	POLISH
PRE.FAB.	PREFABRICATED
PLAS.LAM	PLASTIC LAMINATE
PL.	PROTECTION PLATE
R.	RISERS, RANGE
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFRIGERATOR, REFERENCE
REINF.	REINFORCED
REQ'D	REQUIRED
RESIST.	RESISTANT
RM.	ROOM
S.	SINK
SCHED.	SCHEDULED
S.E.	SERVICE ELEVATOR
SECT.	SECTION
SH.	SHOWER
SPECS.	SPECIFICATIONS
S.T.C.	SOUND TRANSMISSION CLASS
STL.	STEEL
S.S.	STAINLESS STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SIM.	SIMILAR
S.O.	SLAB OPENING
T.	TREAD
T.	TOILET
T.A.	TRANSIT AUTHORITY
T.C.	TOP OF CURB
THK.	THICK
T.O.	TRIMMED OPENING
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
TYP.	TYPICAL
T.B.	TOWEL BAR
T.C.P.	TOP OF CONCRETE PLANK
T.X.	TOILET EXHAUST
V.C.T.	VINYL COMPOSTION TILE
V.C.G.	VINYL CORNER GUARD
VENT.	VENTILATION
VEST.	VESTIBULE
V.W.C.	VINYL WALL COVERING
W.	WASHING MACHINE
W.H.	WEEP HOLES
W/	WITH
W.C.	WATER CLOSET
W. GL	WIRE GLASS
W.P.	WATERPROOFING
W.R. GWB	WATER RESISTANT GYPSUM BOARD
WD.	WOOD

SYMBOLS AND MATERIALS

- CONCRETE
- BRICK
- CONCRETE BLOCK
- INDICATES PARTITION TYPE
- INDICATES WATER RESISTANT GYPSUM BOARD
- TOP LETTER DENOTES DETAIL NUMBER
- BOTTOM NUMBER DENOTES DRAWING NUMBER
- TOP DENOTES DOOR TYPE (SEE DOOR SCHEDULE)
- BOTTOM DENOTES HARDWARE (SEE SPECIFICATIONS)
- STARTING POINT
- EXIT & EMERGENCY LIGHT
- SMOKE / CARBON MONOXIDE DETECTOR

N.B.

APPLICATIONS FILED SEPARATELY:

STRUCTURAL

PLUMBING, MECHANICAL, BOILER, SPRINKLER

BUILDERS PAVEMENT PLAN (B.P.P.)

UNDERPINNING & SHORING

FIRE ALARM (SPRINKLER ALARM)

MARQUEE

DRAWING SCHEDULE

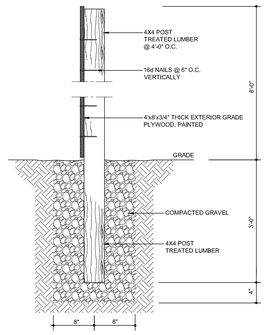
ARCHITECTURAL DRAWING LIST

Z-001 ZONING AND CODE ANALYSIS
Z-002 ZONING DIAGRAMS
Z-003 ZONING DIAGRAMS
Z-004 EXTERIOR WALL AREA CALCULATIONS
Z-005 ENERGY DEDUCTIONS
Z-006 ENERGY DEDUCTIONS
A-001 SITE PLAN, FLOOD MAP, DRAWING LIST, SPECIAL INSPECTIONS
A-002 GENERAL NOTES AND CODE ANALYSIS
A-003 H/C DETAILS AND MANEUVERING CLEARANCES
A-004 EGRESS PLANS
A-005 EGRESS PLANS
A-101 CELLAR PLAN
A-102 FIRST FLOOR PLAN
A-103 SECOND FLOOR PLAN
A-104 TYPICAL THIRD TO SIXTH FLOOR PLAN
A-105 SEVENTH FLOOR PLAN
A-106 ROOF AND BULKHEAD PLAN
A-201 FRONT ELEVATION
A-202 ELEVATIONS
A-203 ELEVATIONS
A-204 ELEVATIONS
A-205 BUILDING SECTION
A-206 BUILDING SECTION
A-300 CELLAR REFLECTED CEILING PLAN
A-301 1ST FLOOR REFLECTED CEILING PLAN
A-302 2ND FLOOR REFLECTED CEILING PLAN
A-303 3RD TO SIXTH FLOOR REFLECTED CEILING PLAN
A-304 7TH FLOOR AND BULKHEAD REFLECTED CEILING PLANS
A-400 PARTITION DETAILS
A-401 FINISH SCHEDULE
A-402 DOOR SCHEDULE, WINDOW SCHEDULE
A-403 BATHROOM PLANS, ELEVATIONS AND SCHEDULE
A-404 KITCHEN PLANS, ELEVATIONS AND EQUIPMENT SCHEDULE
A-405 KITCHEN PLANS, ELEVATION AND EQUIPMENT SCHEDULE
A-500 FOUNDATION DETAILS
A-501 SECTION DETAILS
A-502 SECTION DETAILS
A-503 SECTION DETAILS
A-504 STORE FRON AND CANOPY DETAILS

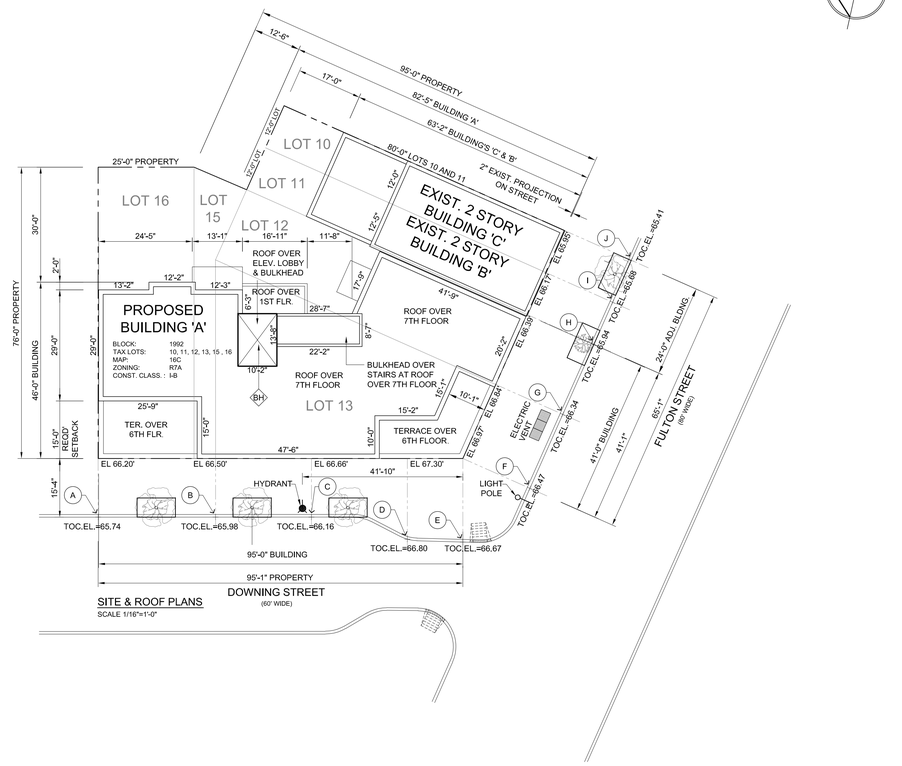
BPP WORK FILED UNDER APPLICATION NUMBER 320591784

FIRE ALARM WORK FILED UNDER APPLICATION NUMBER 320629528

CONSTRUCTION FENCE DETAIL



CONSTRUCTION FENCE DETAIL
SCALE 1" = 1'-0"



SITE & ROOF PLANS
SCALE 1/16"=1'-0"

SPECIAL INSPECTIONS

SPECIAL INSPECTION ITEMS. REQUIRED FOR ALL APPLICATIONS.

IDENTIFICATION OF REQUIREMENT

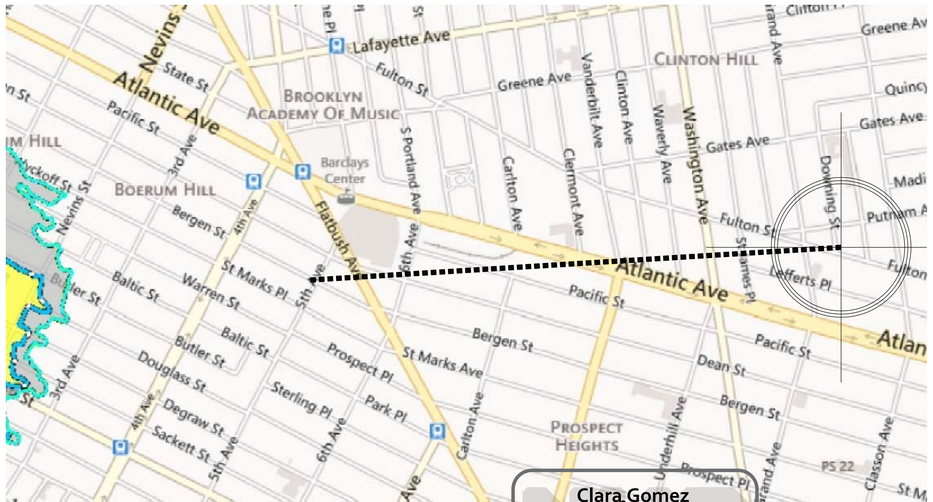
Y	N	SPECIAL INSPECTIONS		CODE SECTION
		FLOOD ZONE COMPLIANCE		BC G105
		FIRE ALARM TEST		BC 907, BC 1704.13
		PHOTOLUMINESCENT EXIT PATH MARKINGS	TR7	BC 1026.11
		EMERGENCY POWER SYSTEMS (GENERATORS)		BC 1704.13, BC 2702
		STRUCTURAL STEEL-WELDING		BC 1704.3.1
		STRUCTURAL STEEL-ERECTION & BOLTING		BC 1704.3.2, BC 1704.3.3
		STRUCTURAL COLD-FORMED STEEL		BC 1704.3.4
		CONCRETE - CAST-IN-PLACE		BC 1704.4
		CONCRETE - PRECAST		BC 1704.4
		CONCRETE - PRESTRESSED		BC 1704.4
		CONCRETE - TEST CYLINDERS*	TR2	BC 1905.6
		CONCRETE DESIGN MIX*	TR3	BC 1905.3
		MASONRY		BC 1704.5
		WOOD - OF-SITE FABRICATION OF STRUCTURAL ELEMENTS		BC 1704.6
		WOOD - INSTALATION OF HIGH-LOAD DIAPHRAGMAS		BC 1704.6.1
		WOOD - INSTALATION OF METAL-PLATE-CONNECTED TRUSSES		BC 1704.6.3
		WOOD - INSTALATION OF PREFABRICATED I-JOISTS		BC 1704.6.4
		SOILS - SITE PREPARATION		BC 1704.7.1
		SOILS - FILL PLACEMENT & IN-PLACE DENSITY		BC 1704.7.2, BC 1704.7.3
		SOILS - INVESTIGATIONS (BORING/TEST PITS)	TR4	BC 1704.7.4
		PILE FOUNDATIONS & DRILLED PIER INSTALATION	TR5	BC 1704.8
		PIER FOUNDATIONS		BC 1704.9
		UNDERPINNING		BC 1704.9.1
		WALL PANELS, CURTAIN WALLS, AND VENEERS		BC 1704.10
		SPRAYED FIRE-RESISTANT MATERIALS		BC 1704.11
		EXTERIOR INSULATION FINISH SYSTEMS (EIFS)		BC 1704.12
		SMOKE CONTROL SYSTEMS		BC 1704.14
		MECHANICAL SYSTEMS		BC 1704,15
		FUEL-OIL STORAGE AND FUEL-OIL PIPING SYSTEMS		BC 1704.16
		HIGH-PRESSURE STEAM PIPING (WELDING)		BC 1704.17
		FUEL-GAS PIPING (WELDING)		BC 1704.18
		STRUCTURAL SAFETY - STRUCTURAL STABILITY		BC 1704.19
		MECHANICAL DEMOLITION		BC 1704.19, BC 3306.6
		EXCAVATION - SHEETING, SHORING, AND BRACING		BC 1704.19,BC 3304.4.1
		SOIL PERCOLATION TEST - DRYWELL		BC 1704.20.1
		SOIL PERCOLATION TEST - SEPTIC		BC 1704.20.1
		SITE STORM DRAINAGE DISPOSAL AND DETENTION SYSTEM INSTALATION		BC 1704.20
		SEPTIC SYSTEM INSTALATION		BC 1704.20
		SPRINKLER SYSTEMS		BC 1704.21
		STANDPIPE SYSTEMS		BC 1704.22
		HEATING SYSTEMS		BC 1704.23
		CHIMNEYS		BC 1704.24
		FIRESTOP, DRAFSTOP, AND FIREBLOCK SYSTEMS		BC 1704.25
		ALUMINIUM WELDING		BC 1704.26
		SEISMIC ISOLATION SYSTEMS		BC 1707.8
		PRELIMINARY		28-116.2.1, BC 109.2
		FOOTING AND FOUNDATION		BC 109.3.1
		LOWEST FLOOR ELEVATION (ATTACH FEMA FORM)		BC 109.3.2
		FRAME INSPECTION		BC 109.3.3
		ENERGY CODE COMPLIANCE INSPECTIONS		BC 109.3.5
		FIRE-RESISTANCE RATED CONSTRUCTION		BC 109.3.4
		PUBLIC ASSEMBLY EMERGENCY LIGHTING		28-116.2.2
		FINAL		28-116.2.4.2 AND BC 109.5 AND DIRECTIVE 14 OF 1975

ENERGY CODE PROGRESS INSPECTION (TR-8)

Y	N	PROGRESS INSPECTIONS	CODE SECTION
		PROTECTION OF FOUNDATION INSULATION	IA1
		INSULATION PLACEMENT AND "R" VALUE	IIA2
		FENESTRATION THERMAL VALUES AND PRODUCT RATINGS	IIA3
		FENESTRATION AND DOOR ASSEMBLY PRODUCT RATINGS	IIA4
		FENESTRATION AREAS	IIA5
		SEALING	IIA6
		PROJECTION FACTORS	IIA7
		LOADING DOCK WEATHERSEALS	IIA8
		BUILDING ENTRANCE VESTIBULES	IIA9
		ELECTRICAL METERING	IIC1
		LIGHTING IN DWELLING UNITS	IIC2
		INTERIOR LIGHTING POWER	IIC3
		EXTERIOR LIGHTING	IIC4
		LIGHTING CONTROLS	IIC5
		EXIT SIGNS	IIC6
		TANDEM WIRING	IIC7
		ELECTRIC WIRING	IIC8
		MAINTENANCE INFORMATION	IID1

FLOOD MAP

THIS PROPERTY IS IN NOT ON A FLOOD ZONE AREA
NO MAP AVAILABLE



FEMA FLOOD ZONE RESULTS

MAP PANEL ID:	3604970212F (PANEL HAS NOT BEEN ISSUED)
PUBLICATION DATE:	06/20/2013
FEMA FLOOD ZONE:	NO
NEAREST DISTANCE TO 100 YEAR FLOOD ZONE AREA (FT):	0.88 MILES

THIS PROPERTY IS NOT LOCATED IN FEMA DESIGNATED FLOOD ZONE.

THIS PROPERTY IS LOCATED 0.88 MILES FROM NEARSET FLOOD ZONE AT BERGEN STREET AND 5TH AVENUE

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY - 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 29 West 31st St. 9th Floor New York NY 10001 212-268-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SITE PLAN, FLOOD MAP, DRAWING LIST, SPECIAL INSPECTIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A001.00

REGISTERED ARCHITECT CLARA GOMEZ No. 016258 STATE OF NEW YORK

GENERAL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS PERTAINING TO LABOR AND MATERIALS.

2. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND ITS FACILITIES (AS PER BC 2008).

3. NO WORK TO BE DONE BEYOND THE BUILDING LINES WITHOUT APPROVAL OF THE DEPARTMENT OF HIGHWAYS.

4. SIDEWALKS TO BE LAID IN ACCORDANCE WITH RULES OF THE DEPARTMENT OF HIGHWAYS.

5. BORING DIAGRAM WILL FILED BEFORE CONSTRUCTION IS STARTED AS PER NYC ADMINISTARTIVE CODE.

6. AN ACCURATE AND COMPLETE FINAL SURVEY, MADE BY A LICENSED SURVEYOR SHALL BE SUBMITTED AFTER COMPLETION OR WORK SHOWING THE LOCATION OF NEW BUILDING ELEVATION OF FIRST FLOOR, FINISHED GRADES OF OPEN SPACES ESTABLISHED CURB LEVEL, LOCATION AND BOUNDARIES OF LOT.

7. ALL ELEVATIONS SHALL REFER TO THE DATUM IN USE BY THE DEPARTMENT OF HIGHWAYS, BOROUGH PRESIDENT OF MANHATTAN WHICH IS 2.75 ABOVE THE U.S. COAST AND GEODETIC SURVEY DATUM OF MEAN SEA LEVEL AT SANDY HOOK.

8. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECENCE OVER SCALED DIMENSIONS.

9. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND ARCHITECTS OFFICE MUST BE NOTRIED OF ANY VARIATION FROM THE DIMENSIONS SHOWN BY THESE DRAWINGS.

10. ALL CONSTRUCTION, DIMENSIONS AND DETAILS SHALL CONCUR WITH AND BE DETERMINED FROM THESE DRAWINGS ONLY.

11. ALL MATERIALS AND CONSTRUCTION TO BE INCORPORATED IN THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS APPLICABLE, AND TO CONFORM TO THE STANDARDS AND RECOMMENDATIONS OF THE VARIOUS TRADE INSTITUTES (A.C.T., A.I.S.S. ETC) WHERE APPLICABLE. ALL MATERIALS INCORPORATED INTO THE WORK SHALL BE NEW.

12. CONTRACTORS SHALL BE RESPONSIBLE FOR ADEQUENTLY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKNESS, COLLAPSE, DISTORTIONS AND OFF-ALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.

13. POSTED OCCUPANCY AND USE, ALL BUILDING SHALL BE POSTED WITH A SIGN IN A FORM PRESRIBED BY THE DEPARTMENT, PERMANENTLY AFFIXED, PLACED IN A CONSPICIOUS LOCATION IN PUBLIC HALL OR CORRIDOR, STATING, LIVE LOADS AND OCCUPANT LOADS IN THE BUILDING AND ALL PARTS THEREOF (AS PER BC 2008).

14. WHERE PIPES, WIRES, CONDUITS, DUCTS, ETC., PIERCE FIRE PROTECTION OD INDIVIDUALLY ENCASED STRUCTURAL MEMBEERS, SUCH PENETRATION SHALL NOT EXCEED 2 PERCENT OF ANY FACE SUCH PROTECTION, AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES.

15. LINTELS SUPPORTING MASONRY WALLS OVER 4 FEET IN WIDTH SHALL BE FIRE PROTECTED WITH MATERIALS HAVING THE REQUIRED FIRE RESISTANCE-RATING OF THE WALL SUPPORTED.

16. CEILINGS THAT CONTRIBUTE TO THE REQUIRED FIRE RESISTANCE RATING OF A FLOOR OR ROOF ASSEMBLY SHALL BE CONTINOUS BETWEEN FIRE DIVISIONS, FIRE SEPERATIONS OR VERTICAL PARTITIONS HAVING THE SAME FIRE RESISTANCE RATING AS THE CEILING. CONCEALED SPACE ABOVE SUCH CEILING, UNLESS SPRINKLERED, SHALL BE FIRESTOPPED INTO AREAS NOT EXCEEDING 3,000 SQ.FT. ACCESS TO SUCH SPACE MAY BE THROUGH ONE OR MORE OPENINGS NOT EXCEEDING 9 SQ. FT. AND PROTECTED BY SELF-CLOSING OPENING PROTECTIVE.

17. FIRESTOPPING: CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING PIPE SPACES, COLUMN ENCLOSURES, ETC. SHALL BE FIRESTOPPED (EXCEPTED WHERE CONCEALED SPACED IS SPRINKLERED OR IS CONSTRUCTED AS A SHAFT) AS FOLLOWS:

    A. CONSTRUCTION GROUP 1: WITH NON-COMBUSTIBLE MATERIAL.

    B. NON-COMBUSTIBLE FIRESTOPPING MAY BE MASONRY SET IN MORTAR, CONCRETE MORTAR OR PLASTER ON NON-COMBUSTIBLE LATH, PLASTER BOARD AT LEAST 3/8" THICK, SHEET METAL OF AT LEAST 0.002" THICK SOLID WEB METAL STRUCTURAL MEMBERS, ½" MINIMUM CEMENT BOARD OF EQUIVALENT MATERIALS, MINERAL, SLAG, OR ROCKWOOL WHEN COMPACTED INTO CONFINED SPACES.

18. INTERIOR FINISH: MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH THE SURFACE FLAME-SPREAD RATING OBTAINED AS PRESCRIBED IN ASTM E-84-1961 "STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS" (AS PER BC 2008)

19. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.

20. ILLUMINATION OF AT LEAST 5 FOOT CANDLES MEASURED AT THE FLOOR LEVEL SHALL BE MAINTAINED CONTINOUSLY IN EXITS AND THEIR ACCESS FACILITIES.

21. EXIT LIGHTING SHALL BE ON CIRCUITS THAT ARE SEPARATE FROM ANY OTHER CIRCUITS, TAKEN OFF AHEAD OF THE MAIN SWITCH, WHERE MORE THAN FOUR LIGHTS ARE REQUIRED (AS PER BC 2008).

22. LOCATION OF EVERY EXIT ON EVERY FLOOR SHALL BE CLEARLY INDICATED BY EXIT SIGNS. PLACED. IF REQUIRED AT AN ANGLE WITH THE EXIT OPENING, INSTALL DIRECTIONAL SIGNS TO SERVE AS GUIDE FROM ALL PORTIONS OF THE CORRIDOR OR FLOOR, SIGNS SHALL BE ON SEPARATE CIRCUITS, TAKEN OFF AHEAD OF THE MAIN SWITCH.

23. EXIT SIGNS SHALL BE INTERNALLY LIGHTED, HAVING AN INITIAL BRIGHTNESS OF THE LETTERS OF AT LEAST 25 FEET, LAMBERT, LETTERS SHALL BE BLOCK LETTERING, AT LEAST 4 1/2"HIGH, WITH 9/16" STROKES.

24. ALL INTERIOR TOILETS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH BC 2008.

25. ELEVATOR SHAFTS SHALL BE ENCLOSED WITH CONSTRUCTION FOR 2 HOUR FIRE RATING IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE-TABLE 3-4.

26. INTERIOR REQUIRED STAIR SHALL BE ENCLOSED WITH 2 HOUR FIRE RATING IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE-TABLE 3-4.

27. ALL VENT DUCT SHAFTS SHALL BE ENCLOSED WITH 2 HOUR ENCLOSURE, NO DUCT VENTS TO PASS THROUGH STAIR ENCLOSURES, 1 ½ HOUR AUTOMATIC SELF-CLOSING FIRE DAMPERS TO BE INSTALLED IN VENT DUCTS WHEN THEY PIERCE PUBLIC CORRIDORS.

28. MECHANICAL VENTILATION, AIR CONDITIONING AND REFRIGERATION.

    A. ALL FINAL INSPECTIONS AND TESTS OF A REQUIRED VENTILATING SYSTEM SHALL BE MADE (THE ARCHITECT OR ENGINEER NEED NOT TO BE IN THE EMPLOY OF THE OWNER);
    B. ALL INSPECTIONS AND TEST OF A REFRIGERATION SYSTEM SHALL BE MADE (THE ARCHITECT OR ENGINEER NEED NOT TO BE IN THE EMPLOY OF THE OWNER).

29. HEATING AND COMBUSTION EQUIPMENT

    A. ALL FINAL INSPECTIONS AND TESTS FOR BOILERS SHALL BE SUBJECT TO THE PROVISIONS FOR CONTROLLED INSPECTION (SUCH INSPECTIONS AND TESTS, HOWEVER, MAY BE MADE BY DEPARTMENT INSPECTIONS OR BY A DULY AUTHORIZED INSURANCE COMPANY INSPECTOR).

    B. ALL APPLICATIONS FOR EQUIPMENT USE PERMIT FOR HEATING SYSTEMS SHALL BE ACCOMPANIED BY A SIGNED STATEMENT BY AN ARCHITECT OR ENGINEER STATING THAT THE SYSTEM HAS BEEN OPERATED AND FUNCTIONS SATISFACTORY AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF THE SYSTEM WILL MEET THE CODE TEMPERATURE REQUIREMENTS.

30. FIRE EXTINGUISHING EQUIPMENT

    A. INSPECTIONS AND TESTS OF STANDPIPES ARE SUBJECT TO CONTROLLED INSPECTION. IF APPLICANT DOES NOT CHOOSE TO HAVE TESTS WITNESSED BY REPRESENTATIVE OF DEPARTMENTS.

    B. PER C27-967, C27-932-INSPECTIONS AND TEST OF SPRONKLER SYSTEMS ARE SUBJECT TO CONTROLLED INSPECTION. IF APPLICANT DOES NOT CHOOSE TO HAVE TESTS WITNESSED BY REPRESENTATIVE.

31. REFUSE CHUTE SHALL BE CONSTRUCTED STRAIGHT AND PLUMB WITHOUT PROJECTIONS OF ANY KIND SUPPORTED ON 3 HR FLOOR CONSTRUCTION.

32. REFUSE CHUTE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDING AND ANY OTHER AUTHORITY HAVING JURISDICTION.

33. INSPECTION OF REQUIRED SPRINKLERS SHALL COMPLY WITH D26-21.07.

34. FIRE SEPERATION

    A. THE OCCUPANCY CLASSIFICATION OF THE BUILDING IS OCCUPANCY GROUP (O.G.) G SUB-ARTICLE AND CLASS "A" MULTIPLE DWELLING AS PER SECTION 4.8 M.D.L.

    B. THE CONSTRUCTION CLASSIFICATION OF THE BUILDING IS CONSTRUCTION GROUP 1 NON-COMBUSTIBLE CLASS 1C IN ACCORDANCE WITH AREA AND HEIGHT LIMITATIONS AS SPECIFIED IN CHAPTER 5 OF B.C 2008. THE CONSTRUCTION ELEMENTS SHALL BE OF THE REQUIRED MINIMUM FIRE RESISTANCE RATINGS AS OUTLINED IN TABLE 602.

35. WOOD REQUIRED TO BE FIREPROOFED SHALL BE TESTED IN ACCORDANCE WITH REFERENCED STANDARDS RS 5-3 AND RS 5-4.

36. TOILET ROOM SIDE PARTITIONS SHALL BE 5/8" WATER RESISTANT GYPSUM WALLBOARD.

37. INTERIOR FIRE RESISTANCE

A STAIR ENCLOSURE (INCLUDING SEPERATION)	2 HR. REQUIRED FIRE RESISTANCE RATING
A ELEVATOR SHAFT	2 HR. REQUIRED FIRE RESISTANCE RATING
A DUCT SHAFT (288 SQ. INCH OR MORE)	2 HR. REQUIRED FIRE RESISTANCE RATING
A PUBLIC HALL (CORRIDOR)	2 HR. REQUIRED FIRE RESISTANCE RATING
A EXIT PASSAGEWAY	2 HR. REQUIRED FIRE RESISTANCE RATING TABLE 3-4
(GRADE LEVEL) BAC INTERIOR PARTITIONS AND FURRING	O HR REQUIRED FIRE RESISTANCE RATING TABLE 3-4
FLOOR CONSTRUCTION	2 HR. REQUIRED FIRE RESISTANCE RATING TABLE 3-4

38. INTERIOR FINISHES, EXCEPT FINISHED FLOORING, FLOOR COVERINGS, WALL COVERINGS AND COATING LESS THAN .036 IN TOTAL THICKNESS, SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THAT OF THE FOLLOWING INTERIOR FINISH CLASSES:

OCCUPANCY CLASS:	CLASS G
EXITS AND SHAFTS:	A (0-25)
ROOMS GREATER THAN 1500 SQ. FEET:	B (26-75)
ROOMS LESS THAN 1500 SQ. FEET	B (26-75)

39. ENERGY CONSERVATION CODE NOTES: ALL PERTINENT DATA AND DESIGN CRITERIA REGARDING THE FOLLOWING COMPLY WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, CHAPTER 4. AND THE NEW YORK CITY BUILDING CODE WHICHEVER IS MORE STRINGENT:

    A. "U" VALUES OF THE ENVELOPE SUB-SYSTEM.

    B. DESIGN INSIDE AIR TEMPERATURE OF EACH ROOM THAT IS TO BE HEATED AND/OR COOLED. (72 DEG.F. FOR HEATING, 78 DEG.F. FOR COOLING)

    C. DESIGN OUTDOOR AIR TEMPERATURES (15 DEG.F. WINTER, 89 DEG.F. SUMMER)

    D. DESIGN HEAT LOSS AND/OR GAIN THROUGH EACH EXTERIOR FAÇADE IN BTU/HR.

    E. "R" VALUES OF INSULATING MATERIALS.

    F. SIZE AND TYPE OF APPARTUS AND EQUIPMENT AND SYSTEM CONTROLS IS IN CONFORMANCE WITH THE REQUIREMENTS OF THE CODE.

    G. ELECTRICAL LIGHTING AND POWER DESIGN DATA.

    H. FIRE PROTECTION CONSTRUCTION REQUIREMENTS, INCLUDING BUILDING CODE LIMITATIONS REGARDING USE OF INSULATION OR EQUIPMENT.

    I. ALL NECESSARY APPROVALS FOR ELECTRICAL WORK FROM THE BUREAU OF GAS AND ELECTRICITY WILL BE OBTAINED.

40. ALL MATERIALS ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE SECTION C27-130.

41. AT LEAST 24 HOUR WRITTEN NOTICE SHALL BE GIVEN TO THE COMMISSIONER BEFORE COMMENCEMENT OF WORK.

42. FIVE DAYS PRIOR NOTICE SHALL BE GIVEN TO ADJOINING LOT OWNERS AFFECTED BY FOUNDATION, EARTHWORK OR DEMOLITION.

43. ALL PAVED WALKS, SURFACES AND AREAWAYS WILL BE DRAINED ADEQUATELY WITHIN THE SITE.

44. WHERE PIPES, WIRES, CONDUITS, DUCTS, ETC. PEIRCE FIRE PROTECTION OF INDIVIDUALLY ENCASED STRUCTURAL MEMBERS, SUCH PENETRATION SHALL NOT EXCEED 2 OF ANY ONE FACE OF SUCH PROTECTION, AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES.

45. FIRE DIVISIONS SHALL COMPLY WITH PROVISIONS OF BC 2008 AND SHALL BE CONTINUOUS THROUGH ANY CONCEALED SPACE IN FLOOR OR ROOF CONSTRUCTION.

46. TENANTS NOT SEPARATED BY FIRE DIVISIONS, SHALL BE SEPARATED BY FIRE SEPARATIONS, BUT NOT LESS THAN ONE HOUR SEPARATIONS SHALL CONTINUE THROUGH CONCEALED SPACES ABOVE.

47. FINISHED FLOORING IN ALL EXITS SHALL BE OF NON-COMBUSTIBLE MATERIAL.

48. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.

49. CONTRACTOR SHALL CHECK ALL CONDITIONS AND DIMENSIONS AT SITE BEFORE COMMENCING CONSTRUCTION. ARCHITECT SHALL BE NOTIFIED OF ANY ERROR OR OMISSIONS BEFORE WORK IN QUESTION IS STARTED.

50. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO STARTING THE WORK AND ALSO OBTAIN THE "CERTIFICATE OF OCCUPANCY".

51. REMOVE ALL EXISTING WALLS, PARTITIONS, DOORS, FLOORING, CEILINGS, FIXTURES, ETC. AS SHOWN ON DRAWINGS OR AS REQUIRED TO INSTALL NEW WORK.

52. WHERE EXISTING BEARING WALLS, BEAMS OR ANY OTHER STRUCTURAL SUPPORT OF THE EXISTING BUILDING IS BEING REMOVED, CONTRACTOR SHALL DO AL NECESSARY SHORING, NEEDLING, UNDERPINNING, ETC. AS REQUIRED TO MAINTAIN THE SAFETY OF THE STRUCTURE, THE WORKERS, AND THE GENERAL PUBLIC.

53. ALL SUCH MATERIALS DESIGNATED FOR "CONTROLLED INSPECTION" SHALL BE INSPECTED BY AN ARCHITECT OR ENGINEER RETAINED BY THE OWNER.

54. ORNAMENTAL PROJECTIONS AND DOOR SWINGS SHALL NOT PROJECT MORE THAN 18" BEYOND THE BUILDING LINE.

55. STOREFRONTS SHALL SUSTAIN A WIND LOAD OF 30# PER SQUARE FOOT.

56. ALL STOREFRONT MATERIALS SHALL HAVE AN INCOMBUSTIBLE RATING AND PANEL VENEER TO COMPLY WITH B.S.A. RULE #465/44SR.

57. ALL NEW STEEL RESTING ON MASONRY SHALL HAVE THREE COURSES OF BRICK UNDER SAME AND BEARING PLATES UNDER STEEL.

58. ALL REINFORCED CONCRETE MATERIALS, DESIGNS AND CONSTRUCTION SHALL BE AS ACT 318, 1963 EDITION WITH MODIFICATIONS PER RS 10-3.

59. THREE TEST CYLINDERS SHALL BE PROVIDED FOR EACH FIFTY CUBIC YARDS OF CONCRETE PLACED IN ONE DAY, AS PER RS 10.

60. ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST ASTM SPECIFICATIONS FOR A-36 AND A-60 STEEL.

61. CONTRACTOR SHALL FILE THE AFFIDAVIT OF THE PRODUCER OF STEEL, CERTIFYING THAT THE PROVISIONS OF THE LOCAL CODE ARE MET.

62. ALL CONNECTIONS SHALL BE 3/4" BOLTS OR GREATER, AS REQUIRED.

63. ALL STEEL SURFACES NOT IN CONTACT WITH CONCRETE, SHALL RECEIVE ONE SHOP COAT OF APPROVED PAINT.

64. ALL WELDING TO BE PERFORMED BY N.Y.C. LICENSED WELDERS.

65. NEW MASONRY SHALL BE LAID UP IN TYPE M OR S PORTLAND CEMENT MORTAR, 1:3 MIX WITH NOT MORE THAN 1 LIME BY VOLUME, AS PER RS 10-46, ASTM C270, 1964.

66. BRICK SHALL BE ANCHORED TO BLOCK WITH TRUSS-TYPE GALVANIZED METAL ANCHORS EVERY 160 SQUARE INCHES.

67. BLOCK WALLS SHALL HAVE "DUR-O-WALL" METAL WALL TIES EVERY OTHER BLOCK COURSE.

68. A MINIMUM OF THREE COURSES OF BRICK SHALL BE PROVIDED UNDER ALL JOISTS RESTING ON MASONRY.

69. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER AND SHALL CONFORM TO ALL CODE REQUIREMENTS.

70. ALL FIXTURES SHALL BE PROPERLY VENTED AND SHALL HAVE SHUT-OFF VALVES AT EACH FIXTURE WITH WATER SUPPLY IN COPPER PIPES.

71. ALL SOIL, WASTE AND VENT LINES IN FLOOR 2" AND LARGER, SHALL BE E,H,C,L, AND SHALL HAVE CLEAN OUTS AT THE BASE OF ALL LINES. VENTS SHALL PROJECT THROUGH THE ROOF, 4'-0".

72. ALL SERVICE EQUIPMENT SHALL BE MEA APPROVED AND AN EQUIPMENT USE PERMIT SHALL BE OBTAINED BY THE INSTALLATION CONTRACTOR FOR ALL SUCH EQUIPMENT.

73. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.

74. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM WITH ALL LOCAL LAWS, THE NATIONAL ELECTRICAL CODE AND LOCAL UTILITY'S REQUIREMENTS.

75. ALL PARTITIONS TO BE WEDGED TIGHTLY TO CEILING.

76. PLATE GLASS TO COMPLY WITH SECTION C26-550.2.

77. GLASS DOORS TO COMPLY WITH 501-68 SR AS APPROVED BY THE B.S.A.

78. HUNG CEILING TO COMPLY WITH SECTION C27-350 & RS 5-16.

79. HUNG CEILING TO BE OF INCOMBUSTIBLE MATERIAL.

80. PROVIDE B.S.A. APPROVED TYPE PHOSPHORESCENT EXIT LIGHTS AND SIGNS AS PER SECTION C26-607.1.

81. PROVIDE SIGNS AT ELEVATOR LANDINGS AS PER SECTION C27-388.

82. PROVIDE FLOOR NUMBERING SIGNS AS PER SECTION C27-394.

83. PROVIDE STAIR AND ELEVATOR IDENTIFICATION SIGNS AS PER SECTION C27-393.

84. COMPLY WITH LOCAL LAW 76 FOR ASBESTOS.

85. COMPLY WITH LOCAL LAW 58 FOR HANDICAPPED ACCESSIBILITY.

86. UPON COMPLETION OF WORK, OWNER SHALL OBTAIN A CERTIFICATE OF OCCUPANCY FROM THE BUILDING DEPARTMENT.

HOUSING MAINTENANCE CODE

1. THE OWNER OF THE MULTIPLE DWELLINGS SHALL KEEP THE PREMISES IN GOOD REPAIR.
2. THE OWNER SHALL KEEP THE ROOF, YARDS, COURTS & OTHER OPEN SPACES CLEAN & FREE FROM DIRT, FILTH, GARBAGE OR OTHER OFFENSIVE MATERIALS.
3. PAINTING OF PUBLIC PARTS & WITHIN DWELLINGS TO COMPLY WITH SECTION D26012.01 H.M.C.
4. PAINTING OF WINDOW FRAMES TO COMPLY WITH SECTION D26-12.03 H.M.C.
5. PREMISES TO BE MAINTAINED & KEPT FREE OF RODENT & INSECT INFESTATION AS PER SECTION D26-13.03 & D26 13.05 H.M.C.
6. RECEPTACLES FOR COLLECTION OF WASTE MATTER TO BE PROVIDED AS PER SECTION D26-13.03 & D26-14.05 H.M.C.
7. PROVIDE & MAINTAIN A SUPPLY OF PURE & WHOLESOME WATER SUFFICIENT IN QUANTITY & AT SUFFICIENT PRESSURE TO KEEP ALL PLUMBING FIXTURES ADEQUATELY SUPPLIED FOR THEIR SANIATRY MAINTENANCE.
8. MAINTAIN & KEEP AND/OR REPAIR THE PLUMBING & DRAINAGE SYSTEM INCLUDING WATER CLOSETS, TOILETS, SINKS & OTHER FIXTURES.
9. THE DRAINAGE OF ROOFS, COURTS & YARDS SHALL COMPLY WITH D26-16.03 H.M.C.
10. HEAT & HOT WATER REQUIREMENTS AS PER ARTCILE 17 OF H.M.C CENTRAL HEATING SYSTEM AS PER BUILDING CODES: MINIMUM TEMPERATURES TO BE MAINTAINED AS PER SECTION D26-17.03, CENTRAL HEATING SYSTEM TO BE INSPECTED YEARLY BY QUALIFIED PERSON IN ACCORDANCE WITH SECTION D26-17.05 OF H.M.C. SUPPLY OF HOT WATER AS PER SECTION D26-17.07.
11. YEARLY INSPECTIONS OF CENTRAL HEATING PLANT BY QUALIFIED PERSON TO BE MADE AS PER SECTION D26-17.05 H.M.C.
12. PROVIDE ELECTRIC LIGHTING EQUIPMENT IN ALL DWELLINGS AS PER SECTION D26-19.01.
13. PROVIDE AND MAINTAIN ELECTRIC LIGHTING FIXTURES IN EVERY PUBLIC HALL, STAIR OR FIRESTAR IN ACCORDANCE WITH SECTION D26-19.03 & 19.05.
14. PROPER ELECTRIC LIGHTS TO BE PROVIDED NEAR ENTRANCE WAYS, YARDS & COURTS AS PER SECTION D26-19.07 H.M.C., ON SEPARATE CIRCUIT OR CONNECTED TO HOUSE LINE SERVICING PUBLIC HALLS, AND IN ACCORDANCE WITH REQUIREMENTS & APPROVAL OF THE DEPARTMENT OF WATER SUPPLY, GAS & ELECTRICITY.
15. BOARD OF STANDARDS & APPEALS APPROVED TYPE PEEPHOLES APPROXIMATELY 5 FEET ABOVE FINISHED FLOOR TO BE PROVIDED IN ENTRANCE DOORS OF DWELLING UNITS AS PER SECTION D26.01 H.M.C. & DEPARTMENT RULES & REGULATIONS.
16. ENTRANCE DOORS SHALL BE PROVIDED WITH HEAVY DUTY LATCH SET & A HEAVY DUTY DEAD BOLT OPERABLE WITH A KEY FROM THE OUTSIDE & A THUMB-TURN FROM THE INSIDE. EQUIPMENT DOORS WITH A CHAIN DOOR GUARD SO AS TO PERMIT PARTIAL OPENING.
17. PROPERLY MOUNTED & SECURED POLISHED METAL VIEWING MIRRORS TO BE PROVIDED WITHIN SELF-SERVICE ELEVATORS AS PER SECTION D26-20.03 H.M.C. & DEPARTMENT RULES & REGULATIONS.
18. KEY LOCK IN THE ENTRANCE DOOR TO EACH DWELLING UNIT WITH AT LEAST ONE KEY TO BE PROVIDED BY OWNER AS PER SECTION D26-20.05 H.M.C.
19. APPROVED TYPE MAIL RECEPTACLED & DIRECTORY OF PERSONS LIVING IN DWELLING TO BE PROVIDED AS PER SECTION D26-21.01 H.M.C. & REGULATIONS OF POST OFFICE DEPARTMENT.
20. PROPER FLOOR SIGNS TO BE PROVIDED IN PUBLIC HALL NEAR STAIRS & ELEVATORS & WITHIN STAIR ENCLOSURE AS PER SECTION D26-21.03 H.M.C. & DEPARTMENT RULES & REGULATIONS.
21. PROPER STREET NUMBERS TO BE PROVIDED IN PUBLIC HALL OF THE DWELLING AS PER SECTION 82 (3)-1.0 ADMINISTRATIVE CODE, SECTION D26-21.03 H.M.C. AND RULES & REGULATIONS OF BOROUGH PRESIDENT.
22. A RESIDNET MANAGER RESPONSIBLE FOR OPERATION & MAINTENANCE OF ROOMING UNITS TO BE PROVIDED AS PER SECTION D26-21.09 H.M.C.
23. PROPER JANITORIAL SERVICES TO BE PROVIDED AS PER SECTION D26-22.05 H.M.C.
24. ALL COMBUSTIBLE MATERIALS WITHIN ONE FOOT OF COOKING APPARTUS TO BE PROPERLY FIRE RETARDED & MINIMUM 2-FOOT CLEARANCE MAINTAINED ABOVE EXPOSED COOKING SURFACE, COMBUSTIBLE MATERIAL BETWEEN 2 FEET & 3 FEET ABOVE EXPOSED COOKING SURFACE TO BE FIRE RETARDED. SECTION D26-32.05 H.M.C. & DEPARTMENT RULES & REGULATIONS.
25. NO KITCHEN SHALL BE OCCUPIED FOR SLEEPING PURPOSES. SECTION D26-33.05 H.M.C.
26. MAXIMUM TWO BOARDERS, ROOMERS OR LODGERS PERMITTED TO EACH FAMILY EXCEPT THAT MAXIMUM ONE BOARDER, ROOMER OF LODGER PERMITTED IF LOCATED IN ZONING TO ONE & TWO FAMILY DWELLING.
27. REGISTRATION STATEMENT TO BE FILED AS PER SECTION D26-41.01 /7 D2641.03 H.M.C.
28. REGISTRATION IDENTIFICATION SIGN CONTRACT AND DWELLING SERIAL NUMBER TO BE POSTED AS PER SECTION D26-41.15 H.M.C.
29. IDENTIFICATION OF MANAGING AGENT OR OWNER TO BE INDICTAED ON TENANT'S RENT RECEIPT AS PER SECTION D26-41.17 H.M.C.

DOB NOTE:

DOB WILL BE NOTIFIED 24-48 HOURS PRIOR TO COMMENCEMENT OF EARTHWORK AS PER 3304.3.1

SMOKE DETECTOR &CARBON MONOXIDE DETECTOR NOTES

SMOKE DETECTOR NOTES AS PER 2008 NYC BC

1. SMOKE DETECTORS SHALL BE INSTALLED AS REQUIRED BY LOCAL LAW 52 OF 1981.
2. UNITS TO BE HARD WIRED WITH INSTALLATION COMPLYING WITH RS17-11 & RS17-12 OF THE BUILDING CODE.
3. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE SMOKE DETECTOR RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUITS OTHER THAN THE CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT AS PER SECTION C26-1705.3.
4. SMOKE DETECTOR UNITS MUST BE EITHER IONIZATION CHAMBER TYPE OF THE PHOTOELECTRIC DETECTOR TYPE AS PER SECTION C26-1705.4(B) AND COMPLY WITH RS17-12.
5. UNITS TO BE APPROVED BY THE BOARD OF STANDARDS AND APPEALS, ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER OR BE LISTED BY AN ACCEPTABLE TESTING LABORATORY SUCH AS:

   A) UNDERWRITERS LAB. NORTH BROOK, ILL-MEA LAB. NO. I-89-L

   B) CANADIAN STANDARDS ASSOC., ONTARIO CANADA - MEA LAB. NO. 25-69-L

   C) UNDERWRITERS LAB, OF CANADA, ONTARIO, CANADA - MEA LAB. NO. 81-80-L
6. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH BC 907.2.6.2.3.

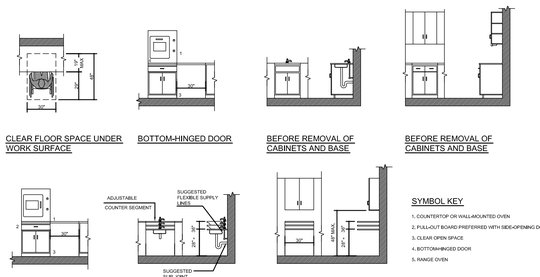
CARBON MONOXIDE DETECTOR NOTES AS PER 2008 NYC BC

1. THE INSTALLATION OR WIRING AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE NYC ADMINISTRATIVE CODE.
2. EVERY DWELLING UNIT/BUILDING WITHIN OCCUPANCY GROUP R-2 WHERE A FOSSIL FUEL-BURNING FURNACE OR BOILER IS LOCATED SHALL BE EQUIPPED WITH AN OPERABLE CARBON MONOXIDE DETECTING DEVICE APPROVED IN ACCORDANCE WITH THE RULES PROMULGATED BY THE COMMISSIONER IN CONSULTATION WITH THE FIRE DEPARTMENT AND THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.
3. THERE SHALL BE INSTALLED AT LEAST ONE APPROVED AND OPERATIONAL CARBON MONOXIDE DETECTING DEVICE WITHIN FIFTEEN FEET OF EACH ROOM LAWFULLY USED FOR SLEEPING PURPOSES, OR ONE PER EACH DWELLING UNIT, WHICHEVER MAY APPLY.
4. SUCH CARBON MONOXIDE DETECTING DEVICE MUST BE COMBINED WITH A SMOKE DETECTOR DEVICE THAT COMPLIES WITH THE PROVISIONS OF THIS TITLE AND ANY APPLICABLE RULES PROMULGATED THEREUNDER (REF.: MUNICIPAL HOME LAW #27).
5. ALL CARBON MONOXIDE DETECTING DEVICES REQUIRED TO BE PROVIDED AND INSTALLED PURSUANT TO MUNICIPAL HOME RULE LAW #27, SHALL BE OF A TYPE AUTHORIZED BY RULES PROMULGATED BY THE COMMISSIONER.
6. THE CARBON MONOXIDE DETECTING DEVICE SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR AND BE REPLACED IN CASE SUCH DEVICE IS STOLEN, REMOVED, MISSING OR RENDERED INOPERABLE.
7. IT SHALL BE UNLAWFUL FOR ANY PERSON TO TAMPER WITH OR RENDER INOPERABLE CARBON MONOXIDE DETECTING DEVICE, EXCEPT FOR REPLACING THE BATTERIES OR FOR OTHER MAINTENANCE PURPOSES.
8. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH RS 17-13 AND INSTALLED IN ACCORDANCE WITH RS 17-14, IT SHALL BE PROVIDED IN EVERY DWELLING UNIT WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM.
9. CO DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH BC 908.7

LIMITED USE/LIMITED APPLICATION ELEVATOR NOTES:

1. THE ELEVATOR SHALL MEET OR EXCEED THE APPLICABLE REGULATIONS OF ALL GOVERNING AGENCIES AND BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT EDITION OF THE FOLLOWING CODES AND STANDARDS:
   A) ASME A17.1 "SAFETY CODE FOR ELEVATORS AND ESCALATORS: PART XXV; "LIMITED USE/LIMITED APPLICATION ELEVATORS".
   B) ICC/ANSI A117.1-2003 "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".
   C) ANSI/NFPA 70-1999 "THE NATIONAL ELECTRIC CODE" (NEC).
   D) ADAAG "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES".
   E) CSA B44.1/ASME A17.5 "ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT ".
2. MANUFACTURER/PRODUCT ELEVATOR SHALL BE THE CONCORD ORION COMMERCIAL "LULA" ELEVATOR BY: MOBILITY ELEVATOR, 4 YORK AVENUE, WEST CALDWELL, NJ 07006
   PH: (800) 441-4181 OR (973) 618-9545
   FAX (973) 618-9638
   EMAIL: KAMRAN@MOBILITYELEVATOR.COM
3. PRODUCT DATA,
   RATED LOAD: 1,400 LBS.
   RATED SPEED: 30 FPM
   CAR DIMENSIONS: 48"W X 54" DEPTH
   MAX. TRAVEL: 300" w/UP TO 5 STOPS
   DRIVE: 1/2 CABLE HYDRAULIC SHP MOTOR
   OPERATION: NON-SELECTIVE COLLECTIVE,
   PIT SIZE: 14" DEEP & MIN. 120" OVERHEAD CL.
   POWER SUPPLY: 240V THREE PHASE 30 AMP
   DOOR/CAB DOOR: 2 SPEED HORIZONTALSLIDING HOISTWAY DOOR w/2 SPEED HORIZONTAL SLIDING CAB DOOR CAR.
   CONTROLLER TYPE

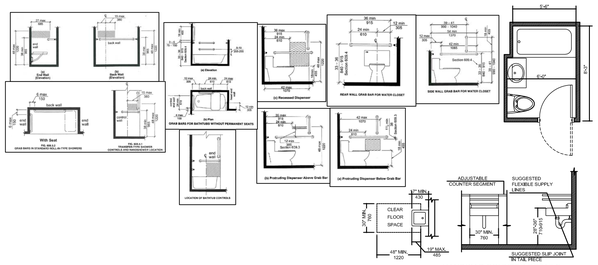
HANDICAP DETAILS FOR APARTMENTS



SYMBOL KEY

1. COUNTERTOP OR WALL-MOUNTED OVEN
2. PULL-OUT BOARD PREFERRED WITH SIDE-OPENING DOOR
3. CLEAR OPEN SPACE
4. BOTTOM-HINGED DOOR
5. RANGE OVEN

HANDICAP DETAILS FOR APARTMENTS (BATHROOM) ICC A117.1-2009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EGRESS PATH
COMMON PATH OF TRAVEL
DEAD END CORRIDOR

STAIR "C" (RES)

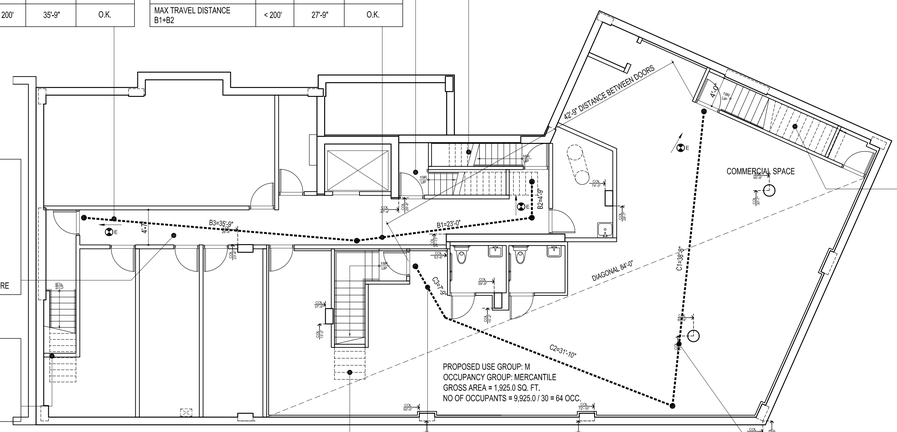
AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 5 < 120 OK.

STAIR "B" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 5 < 120 OK.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL D1	< 125'	N/A	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE B3	< 200'	35'-9"	O.K.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL D1	< 125'	N/A	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE B1+B2	< 200'	27'-9"	O.K.



CORRIDOR A
AS PER BC. 1016.2
MIN. REQUIRED WIDTH: 44" MIN.
PROVIDED: 55" > 44" OK.

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .2
MAX. CAPACITY 55" / .2 = 275 PER
ACTUAL CAPACITY:
NUMBER OF PER. 10 < 275 OK.

2 HR RATED CORRIDOR ENCLOSURE

STAIR "A" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 10 < 120 OK.

STAIR "E" (COMM)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 48" / .3 = 160 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 32 < 160 OK.

NYBC 1014.2 EXC. 2 - DISTANCE B/W DOORS

BUILDING IS FULLY SPRINKLERED
REQUIRED DISTANCE IS 1/3 OF DIAGONAL
DIAGONAL = 115'-4" / 3 = 38'-5"

PROVIDED DISTANCE 81'-2" > 38'-5" O.K.

STAIR "D" (COMM)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 48" / .3 = 160 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 32 < 160 OK.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL A1+A2	< 125'	N/A	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE C2+C3	< 200'	39'-7"	O.K.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL C1+C2	< 125'	47'-4"	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE C1+C2	< 200'	47'-4"	O.K.

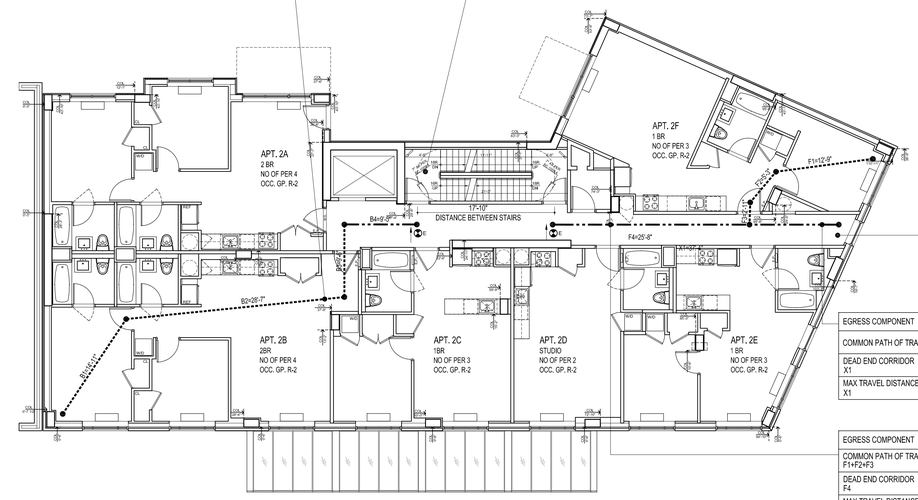
CELLAR EGRESS PLAN
SCALE 1/8"=1'-0"

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL B1+B2+B3	< 125'	52'-2"	O.K.
DEAD END CORRIDOR B4	< 80'	9'-5"	O.K.
MAX TRAVEL DISTANCE B1+B2+B3+B4	< 200'	62'-5"	O.K.

STAIR "A" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 19 < 120 OK.

EGRESS PATH
COMMON PATH OF TRAVEL
DEAD END CORRIDOR



CORRIDOR
AS PER BC. 1016.2
MIN. REQUIRED WIDTH: 44" MIN.
PROVIDED: 48" > 44" OK.

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .2
MAX. CAPACITY 48" / .2 = 240 PER
ACTUAL CAPACITY:
NUMBER OF PER. 19 < 240 OK.

2 HR RATED CORRIDOR ENCLOSURE

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL	< 125'	N/A	O.K.
DEAD END CORRIDOR X1	< 80'	37'-4"	O.K.
MAX TRAVEL DISTANCE X1	< 200'	37'-4"	O.K.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL F1+F2+F3	< 125'	20'-11"	O.K.
DEAD END CORRIDOR F4	< 80'	37'-4"	O.K.
MAX TRAVEL DISTANCE F1+F2+F3+F4	< 200'	46'-7"	O.K.

2ND FLOOR EGRESS PLAN

STAIR "C" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 14 < 120 OK.

EGRESS PATH
COMMON PATH OF TRAVEL
DEAD END CORRIDOR

STAIR "B" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 54 < 120 OK.

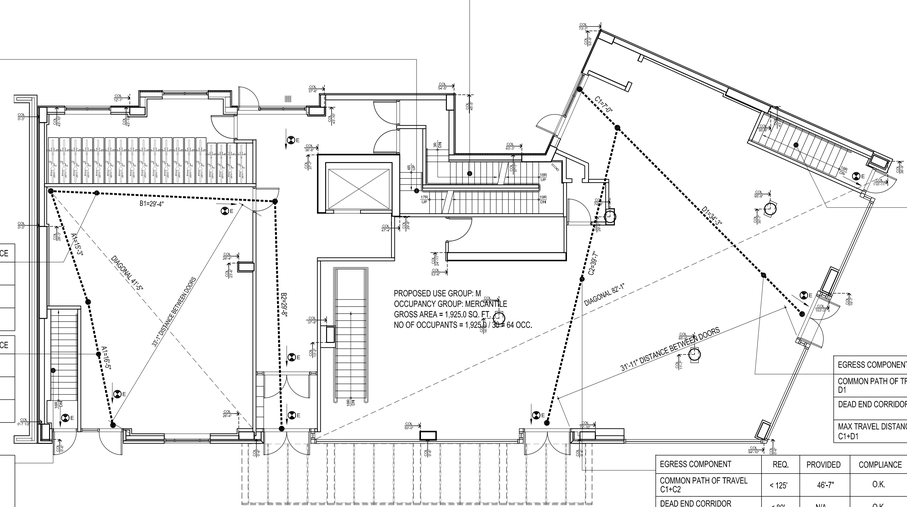
NYBC 1014.2 EXC. 2 - DISTANCE B/W DOORS

BUILDING IS FULLY SPRINKLERED
REQUIRED DISTANCE IS 1/3 OF DIAGONAL

DIAGONAL = 41'-5" / 3 = 13'-9"

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL B1	< 125'	25'-11"	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE B1 + B2	< 200'	59'-0"	O.K.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL A1+A2	< 125'	31'-8"	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE A1+A2	< 200'	31'-8"	O.K.



STAIR "E" (COMM)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 48" / .3 = 160 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 121 < 160 OK.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL D1	< 125'	34'-3"	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE C1+D1	< 200'	41'-3"	O.K.

STAIR "A" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 120 < 160 OK.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL C1+C2	< 125'	46'-7"	O.K.
DEAD END CORRIDOR	< 80'	N/A	O.K.
MAX TRAVEL DISTANCE C1+C2	< 200'	46'-7"	O.K.

NYBC 1014.2 EXC. 2 - DISTANCE B/W DOORS

BUILDING IS FULLY SPRINKLERED
REQUIRED DISTANCE IS 1/3 OF DIAGONAL
DIAGONAL = 82'-1" / 3 = 27'-7"

PROVIDED DISTANCE 31'-11" > 27'-7" O.K.

1ST FLOOR EGRESS PLAN
SCALE 1/8"=1'-0"

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

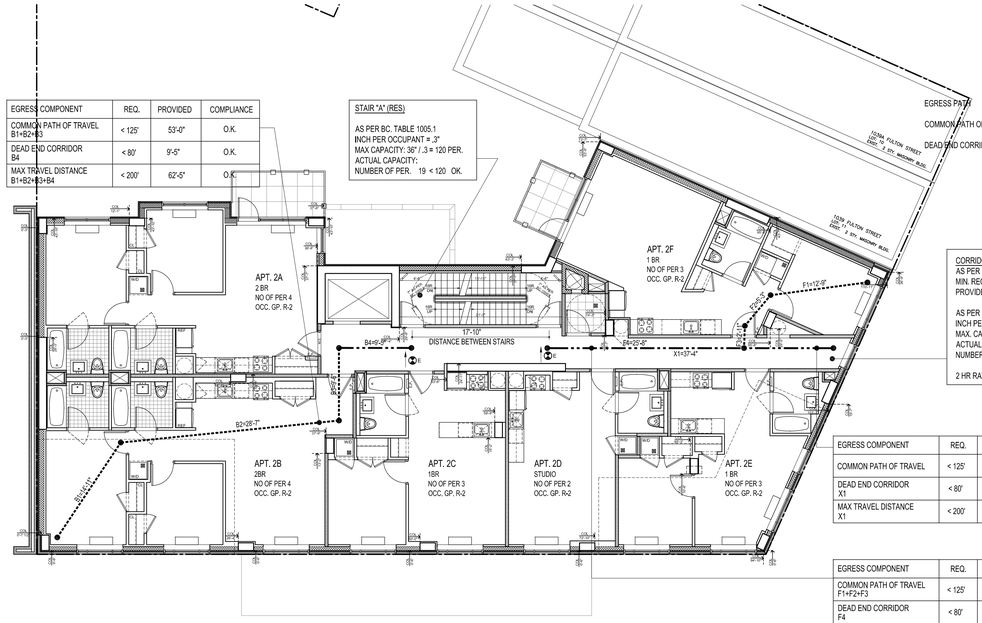
PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EGRESS PLANS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A004.00

REGISTERED ARCHITECT JOHN ISAAC No. 016238 STATE OF NEW YORK

NAME: S:\ALLWORKS\1035 FULTON STREET\PRES\ARCHITECTURAL\Z001-002.DWG DATE: NOV 25, 2013 TIME: 3:56 PM

DEPT OF BLDGS 520991739 Job Number
ES9042123034 Scan Code



EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL B1+B2+B3	< 125'	53'-0"	O.K.
DEAD END CORRIDOR B4	< 80'	9'-5"	O.K.
MAX TRAVEL DISTANCE B1+B2+B3+B4	< 200'	62'-5"	O.K.

STAIR "A" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 19 < 120 OK.

EGRESS PATH
COMMON PATH OF TRAVEL
DEAD END CORRIDOR

CORRIDOR
AS PER BC. 1016.2
MIN. REQUIRED WIDTH: 44" MIN.
PROVIDED: 48" > 44" OK.

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .2
MAX. CAPACITY 48" /.2 = 240 PER
ACTUAL CAPACITY:
NUMBER OF PER. 19 < 240 OK.

2 HR RATED CORRIDOR ENCLOSURE

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL X1	< 125'	N/A	O.K.
DEAD END CORRIDOR X1	< 80'	37'-4"	O.K.
MAX TRAVEL DISTANCE X1	< 200'	37'-4"	O.K.

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL F1+F2+F3	< 125'	20'-11"	O.K.
DEAD END CORRIDOR F4	< 80'	37'-4"	O.K.
MAX TRAVEL DISTANCE F1+F2+F3+F4	< 200'	46'-7"	O.K.

3RD-6TH FLOOR EGRESS PLAN

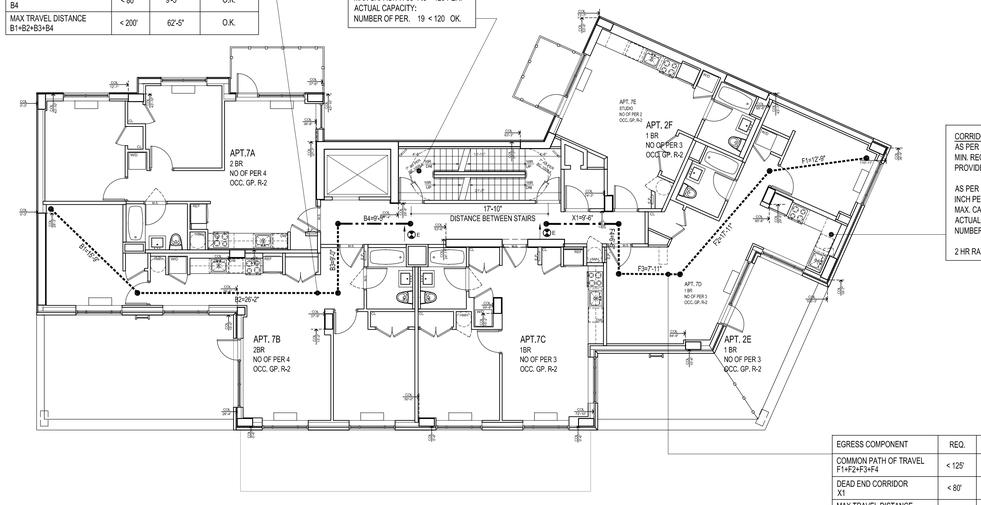
SCALE 1/8"=1'-0"

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL B1+B2+B3	< 125'	50'-11"	O.K.
DEAD END CORRIDOR B4	< 80'	9'-5"	O.K.
MAX TRAVEL DISTANCE B1+B2+B3+B4	< 200'	62'-5"	O.K.

STAIR "A" (RES)

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .3"
MAX CAPACITY: 36" / .3 = 120 PER.
ACTUAL CAPACITY:
NUMBER OF PER. 19 < 120 OK.

EGRESS PATH
COMMON PATH OF TRAVEL
DEAD END CORRIDOR



CORRIDOR
AS PER BC. 1016.2
MIN. REQUIRED WIDTH: 44" MIN.
PROVIDED: 48" > 44" OK.

AS PER BC. TABLE 1005.1
INCH PER OCCUPANT = .2
MAX. CAPACITY 48" /.2 = 240 PER
ACTUAL CAPACITY:
NUMBER OF PER. 19 < 240 OK.

2 HR RATED CORRIDOR ENCLOSURE

EGRESS COMPONENT	REQ.	PROVIDED	COMPLIANCE
COMMON PATH OF TRAVEL F1+F2+F3+F4	< 125'	45'-1"	O.K.
DEAD END CORRIDOR X1	< 80'	9'-6"	O.K.
MAX TRAVEL DISTANCE F1+F2+F3+F4+X1	< 200'	54'-7"	O.K.

7TH FLOOR EGRESS PLAN

SCALE 1/8"=1'-0"

Clara Gomez

NYC Buildings

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-3266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York,NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EGRESS PLANS SCALE: AS SHOWN	1. ISSUED 05-19-2013 2. REV. 12-11-2013 3. 4. 5.	REGISTERED ARCHITECT BORIS ISSAC No. 016238 STATE OF NEW YORK	A005.00

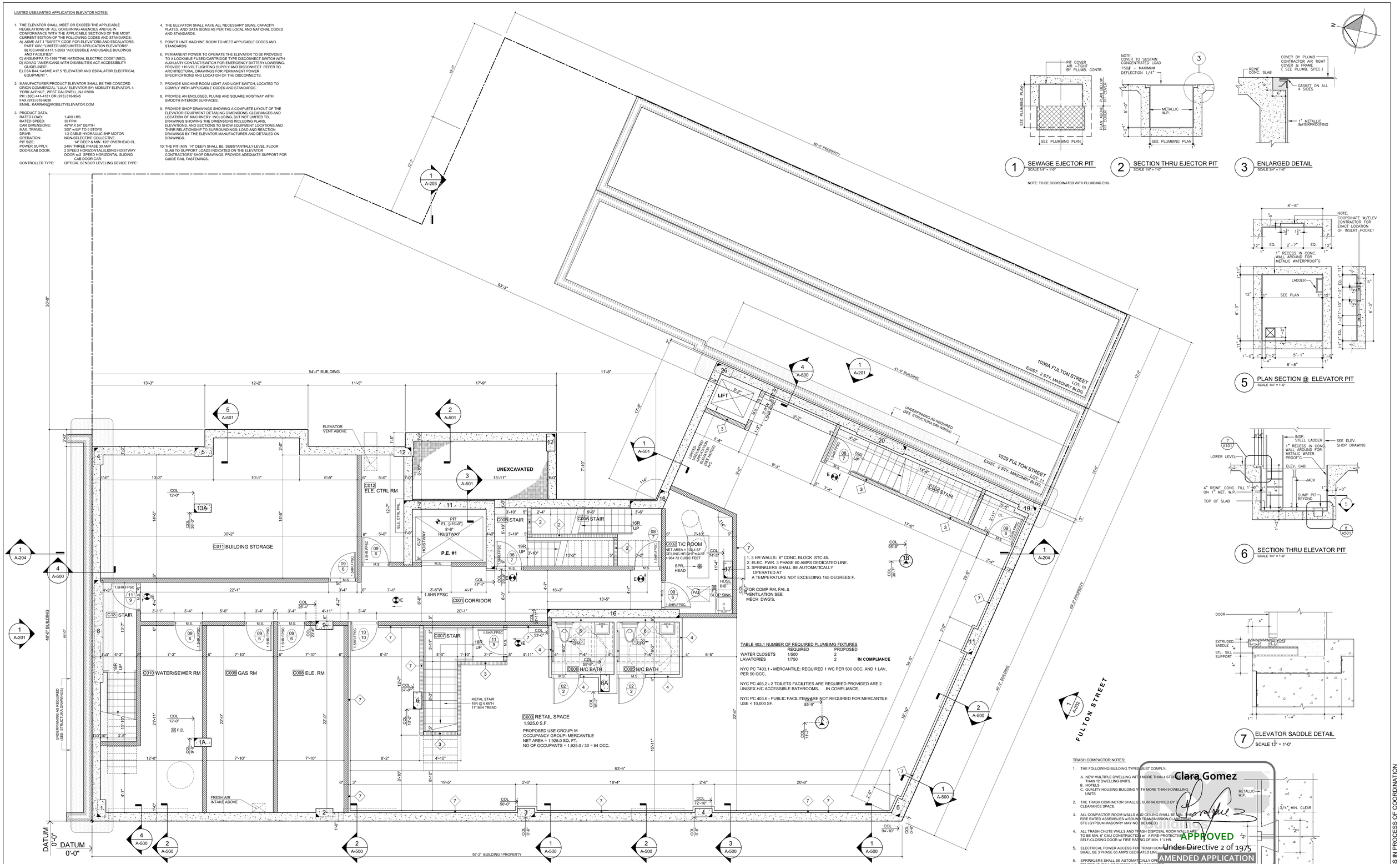
DEPT OF BLDGS 500991739 Job Number
E581671489 Scan Code

LIMITED USE/LIMITED APPLICATION ELEVATOR NOTES:

1. THE ELEVATOR SHALL MEET OR EXCEED THE APPLICABLE REGULATIONS OF ALL GOVERNING AGENCIES AND BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT EDITION OF THE FOLLOWING CODES AND STANDARDS:
   A) ASME A17.1 "SAFETY CODE FOR ELEVATORS AND ESCALATORS: PART XXV; "LIMITED USE/LIMITED APPLICATION ELEVATORS".
   B) ICC/ANSI A117.1-2003 "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".
   C) ANSI/NFPA 70-1999 "THE NATIONAL ELECTRIC CODE" (NEC)
   D) ADA/ADAA "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES".
   E) CSA B44.1/ASME A17.5 "ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT ".
2. MANUFACTURER/PRODUCT.ELEVATOR SHALL BE THE CONCORD ORION COMMERCIAL "LULA" ELEVATOR BY: MOBILITY ELEVATOR, 4 YORK AVENUE, WEST CALDWELL, NJ 07006
   PH: (800) 441-4161 OR (973) 618-9645
   FAX (973) 618-0638
   EMAIL: KAMRAN@MOBILITYELEVATOR.COM
3. PRODUCT DATA.

RATED LOAD:	1,400 LBS.
RATED SPEED:	30 FPM
CAR DIMENSIONS:	48"W X 54" DEPTH
MAX. TRAVEL:	300" w/UP TO 5 STOPS
DRIVE:	1-2 CABLE HYDRAULIC 5HP MOTOR
OPERATION:	NON-SELECTIVE COLLECTIVE.
PIT SIZE:	14" DEEP & MIN. 120" OVERHEAD CL.
POWER SUPPLY:	240V THREE PHASE 30 AMP
DOOR/CAB DOOR:	2 SPEED HORIZONTAL SLIDING HOISTWAY DOOR w/2 SPEED HORIZONTAL SLIDING CAB DOOR CAR.
CONTROLLER TYPE:	OPTICAL SENSOR LEVELING DEVICE TYPE:

4. THE ELEVATOR SHALL HAVE ALL NECESSARY SIGNS, CAPACITY PLATES, AND DATA SIGNS AS PER THE LOCAL AND NATIONAL CODES AND STANDARDS.
5. POWER UNIT MACHINE ROOM TO MEET APPLICABLE CODES AND STANDARDS.
6. PERMANENT POWER TO OPERATE THE ELEVATOR TO BE PROVIDED TO A LOCKABLE FUSED/CARTRIDGE TYPE DISCONNECT SWITCH WITH AUXILIARY CONTACT/SWITCH FOR EMERGENCY BATTERY LOWERING. PROVIDE 110 VOLT LIGHTING SUPPLY AND DISCONNECT. REFER TO ARCHITECTURAL DRAWINGS FOR PERMANENT POWER SPECIFICATIONS AND LOCATION OF THE DISCONNECTS.
7. PROVIDE MACHINE ROOM LIGHT AND LIGHT SWITCH, LOCATED TO COMPLY WITH APPLICABLE CODES AND STANDARDS.
8. PROVIDE AN ENCLOSED, PLUMB AND SQUARE HOISTWAY WITH SMOOTH INTERIOR SURFACES.
9. PROVIDE SHOP DRAWINGS SHOWING A COMPLETE LAYOUT OF THE ELEVATOR EQUIPMENT DETAILING DIMENSIONS, CLEARANCES AND LOCATION OF MACHINERY. INCLUDING, BUT NOT LIMITED TO, DRAWINGS SHOWING THE DIMENSIONS INCLUDING PLANS, ELEVATIONS, AND SECTIONS TO SHOW EQUIPMENT LOCATIONS AND THEIR RELATIONSHIP TO SURROUNDINGS; LOAD AND REACTION DRAWINGS BY THE ELEVATOR MANUFACTURER AND DETAILED ON DRAWINGS.
10. THE PIT (MIN. 14" DEEP) SHALL BE SUBSTANTIALLY LEVEL. FLOOR SLAB TO SUPPORT LOADS INDICATED ON THE ELEVATOR CONTRACTORS' SHOP DRAWINGS. PROVIDE ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS.



1, 3 HR WALLS: 6" CONC. BLOCK STC 45.
2. ELEC. PWR. 3 PHASE 60 AMPS DEDICATED LINE.
3. SPRINKLERS SHALL BE AUTOMATICALLY OPERATED AT A TEMPERATURE NOT EXCEEDING 165 DEGREES F.

FOR COMP RM, FAI, & VENTILATION SEE MECH DWG'S.

TABLE 403.1 NUMBER OF REQUIRED PLUMBIMG FIXTURES

	REQUIRED	PROPOSED	
WATER CLOSETS	1/500	2	
LAVATORIES	1/750	2	IN COMPLIANCE

NYC PC T403.1 - MERCANTILE: REQUIRED 1 WC PER 500 OCC. AND 1 LAV. PER 50 OCC.

NYC PC 403.2 - 2 TOILETS FACILITIES ARE REQUIRED PROVIDED ARE 2 UNISEX H/C ACCESSIBLE BATHROOMS. IN COMPLIANCE.

NYC PC 403.6 - PUBLIC FACILITIES ARE NOT REQUIRED FOR MERCANTILE USE < 10,000 SF.

CELLAR PLAN
GROSS AREA: 6,339.5 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +56.54' [-10'-0"]

1 SEWAGE EJECTOR PIT SCALE 1/4" = 1'-0"
2 SECTION THRU EJECTOR PIT SCALE 1/4" = 1'-0"
3 ENLARGED DETAIL SCALE 3/4" = 1'-0"

NOTE: TO BE COORDINATED WITH PLUMBING ENG.

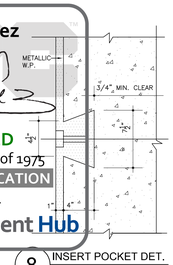
5 PLAN SECTION @ ELEVATOR PIT SCALE 1/4" = 1'-0"

6 SECTION THRU ELEVATOR PIT SCALE 1/4" = 1'-0"

7 ELEVATOR SADDLE DETAIL SCALE 12" = 1'-0"

TRASH COMPACTOR NOTES:

1. THE FOLLOWING BUILDING TYPES MUST COMPLY:
   A. NEW MULTIPLE DWELLING WITH MORE THAN 4 STORIES AND MORE THAN 12 DWELLING UNITS.
   B. HOTELS.
   C. QUALITY HOUSING BUILDING WITH MORE THAN 9 DWELLING UNITS.
2. THE TRASH COMPACTOR SHALL BE SURROUNDED BY 3/4" MIN. CLEARANCE SPACE.
3. ALL COMPACTOR ROOM WALLS AND CEILING SHALL BE MIN. THREE HOUR FIRE RATED ASSEMBLIES w/SOUND TRANSMISSION CLASS (STC) AS STC (GYPSUM MASONRY MAY NOT BE USED.)
4. ALL TRASH CHUTE WALLS AND TRASH DISPOSAL ROOM WALLS SHALL BE TO BE MIN. 6" CMU CONSTRUCTION w/ A FIRE-PROTECTIVE COATING. SELF-CLOSING DOOR w/ FIRE RATING OF MIN. 1 ½ HR.
5. ELECTRICAL POWER ACCESS FOR TRASH COMPACTOR SHALL BE 3 PHASE SHALL BE 3 PHASE 60 AMPS DEDICATED LINE.
6. SPRINKLERS SHALL BE AUTOMATICALLY OPERATED AT A TEMPERATURE NOT EXCEEDING 165 DEGREES F.
7. PROVIDE FRESH AIR INTAKE VIA MECHANICAL VENTILATION OR A WINDOW DUCT.
8. WITHIN TRASH COMPACTOR ROOM FLOOR SHALL BE SLOPED TO A DRAIN CONNECTED TO THE BUILDING DRAIN SYSTEM AS SHOWN ON PLUMBING DWG'S.
9. MECHANICAL EQUIPMENT SPACES AND SHAFTS WITH AN STC OF 50, AND INCINERATOR CHARGING CHUTES MUST COMPLY WITH 27-770(A)(2) AND (B).



8 INSERT POCKET DET. SCALE 12" = 1'-0"

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

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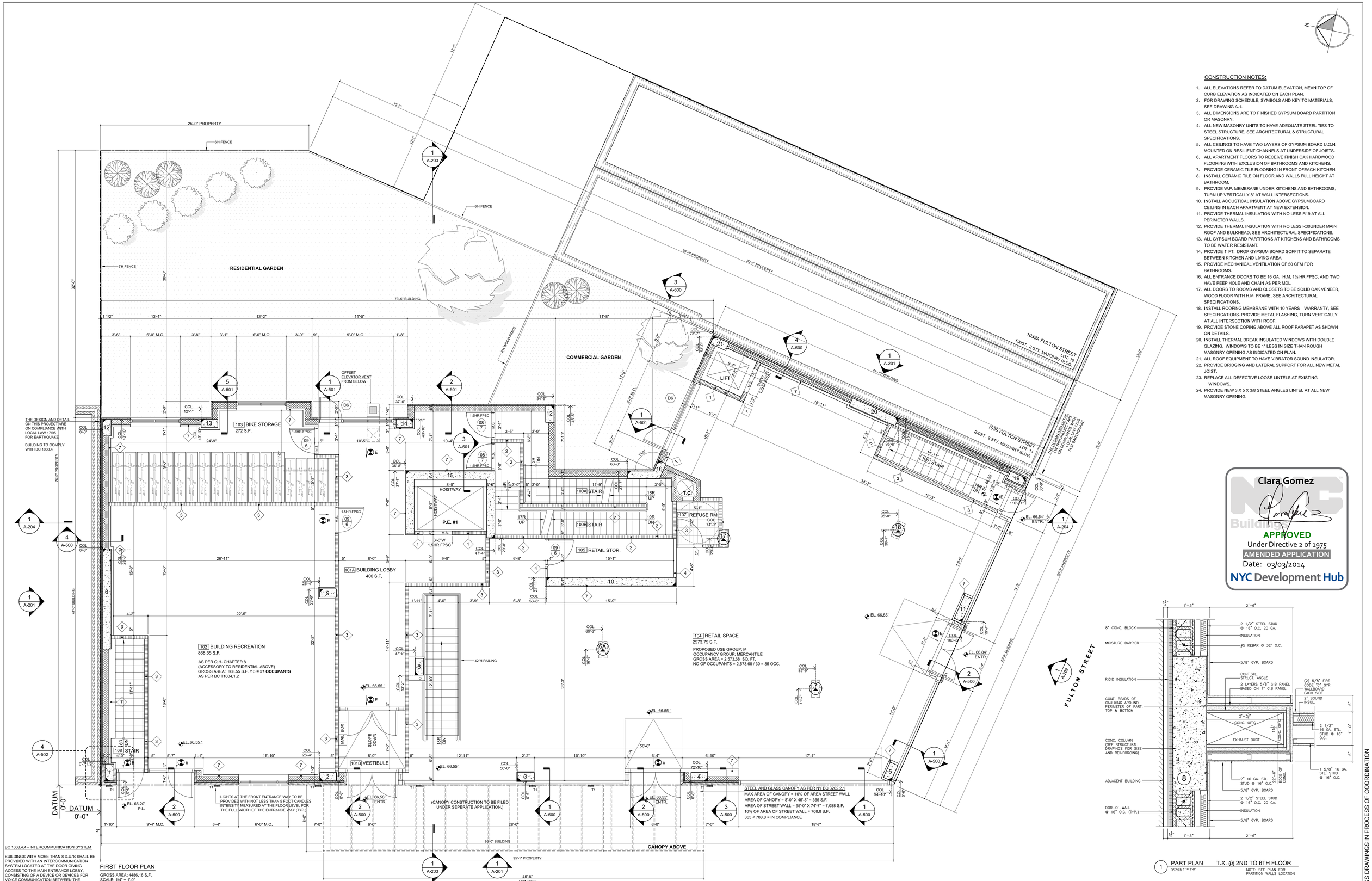
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: tblevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CELLAR PLAN SCALE: AS SHOWN	1. ISSUED 06-19-2013 2. REV. 12-11-2013 3. 4.	A-101.00

REGISTERED ARCHITECT ANTHONY ISSAC No. 016238 STATE OF NEW YORK

NAME: S:\ALLWORKS\1035 FULTON STREET\PRES\ARCHITECTURAL\2013-12-09 FILING SET NO DOUBLE RETAIL\A101-104.DWG DATE: DEC 17, 2013 TIME: 5:49 PM

DEPT OF BLDGS 520991739 Job Number | E324567456 3 Scan Code



CONSTRUCTION NOTES:

1. ALL ELEVATIONS REFER TO DATUM ELEVATION, MEAN TOP OF CURB ELEVATION AS INDICATED ON EACH PLAN.
2. FOR DRAWING SCHEDULE, SYMBOLS AND KEY TO MATERIALS, SEE DRAWING A-1.
3. ALL DIMENSIONS ARE TO FINISHED GYPSUM BOARD PARTITION OR MASONRY.
4. ALL NEW MASONRY UNITS TO HAVE ADEQUATE STEEL TIES TO STEEL STRUCTURE, SEE ARCHITECTURAL & STRUCTURAL SPECIFICATIONS.
5. ALL CEILINGS TO HAVE TWO LAYERS OF GYPSUM BOARD U.O.N. MOUNTED ON RESILIENT CHANNELS AT UNDERSIDE OF JOISTS.
6. ALL APARTMENT FLOORS TO RECEIVE FINISH OAK HARDWOOD FLOORING WITH EXCLUSION OF BATHROOMS AND KITCHENS.
7. PROVIDE CERAMIC TILE FLOORING IN FRONT OFEACH KITCHEN.
8. INSTALL CERAMIC TILE ON FLOOR AND WALLS FULL HEIGHT AT BATHROOM.
9. PROVIDE W.P. MEMBRANE UNDER KITCHENS AND BATHROOMS, TURN UP VERTICALLY 8" AT WALL INTERSECTIONS.
10. INSTALL ACOUSTICAL INSULATION ABOVE GYPSUMBOARD CEILING IN EACH APARTMENT AT NEW EXTENSION.
11. PROVIDE THERMAL INSULATION WITH NO LESS R19 AT ALL PERIMETER WALLS.
12. PROVIDE THERMAL INSULATION WITH NO LESS R30UNDER MAIN ROOF AND BULKHEAD. SEE ARCHITECTURAL SPECIFICATIONS.
13. ALL GYPSUM BOARD PARTITIONS AT KITCHENS AND BATHROOMS TO BE WATER RESISTANT.
14. PROVIDE 1' FT. DROP GYPSUM BOARD SOFFIT TO SEPARATE BETWEEN KITCHEN AND LIVING AREA.
15. PROVIDE MECHANICAL VENTILATION OF 50 CFM FOR BATHROOMS.
16. ALL ENTRANCE DOORS TO BE 16 GA. H.M. 1½ HR FPSC. AND TWO HAVE PEEP HOLE AND CHAIN AS PER MDL.
17. ALL DOORS TO ROOMS AND CLOSETS TO BE SOLID OAK VENEER, WOOD FLOOR WITH H.M. FRAME, SEE ARCHITECTURAL SPECIFICATIONS.
18. INSTALL ROOFING MEMBRANE WITH 10 YEARS WARRANTY, SEE SPECIFICATIONS. PROVIDE METAL FLASHING, TURN VERTICALLY AT ALL INTERSECTION WITH ROOF.
19. PROVIDE STONE COPING ABOVE ALL ROOF PARAPET AS SHOWN ON DETAILS.
20. INSTALL THERMAL BREAK INSULATED WINDOWS WITH DOUBLE GLAZING. WINDOWS TO BE 1" LESS IN SIZE THAN ROUGH MASONRY OPENING AS INDICATED ON PLAN.
21. ALL ROOF EQUIPMENT TO HAVE VIBRATOR SOUND INSULATOR.
22. PROVIDE BRIDGING AND LATERAL SUPPORT FOR ALL NEW METAL JOIST.
23. REPLACE ALL DEFECTIVE LOOSE LINTELS AT EXISTING WINDOWS.
24. PROVIDE NEW 3 X 5 X 3/8 STEEL ANGLES LINTEL AT ALL NEW MASONRY OPENING.

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NYC Buildings

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1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

BC 1008.4.4 - INTERCOMMUNICATION SYSTEM

BUILDINGS WITH MORE THAN 8 D.U.'S SHALL BE PROVIDED WITH AN INTERCOMMUNICATION SYSTEM LOCATED AT THE DOOR GIVING ACCESS TO THE MAIN ENTRANCE LOBBY, CONSISTING OF A DEVICE OR DEVICES FOR VOICE COMMUNICATION BETWEEN THE OCCUPANT OF EACH D.U. AND A PERSON OUTSIDE THE DOOR TO THE MAIN ENTRANCE LOBBY, AND PERMITTING SUCH D.U. OCCUPANT TO RELEASE THE LOCKING MECHANISM OF SAID DOOR FROM THE D.U. IN BUILDINGS PROVIDED WITH A FULL-TIME LOBBY ATTENDANT, THE INTERCOMMUNICATION

FIRST FLOOR PLAN

GROSS AREA: 4486.16 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +66.54' [±0'-0"]

APPENDIX C - REQUIRED WINDOW NOISE ATTENUATION

ALL WINDOWS IN BOTH RESIDENTIAL/COMMERCIAL USES MUST BE PROVIDED WITH A CLOSED WINDOW CONDITION WITH A MINIMUM OF 40 DBA WINDOW-WALL ATTENUATION ON ALL FAÇADES IN ORDER TO MAINTAIN AN INTERIOR NOISE LEVEL OF 45 DBA. SPECIAL DESIGN FEATURES THAT GO BEYOND THE NORMAL DOUBLE-GLAZED WINDOWS ARE NECESSARY. IN ORDER TO MAINTAIN A CLOSED-WINDOW

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 40-42 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dudley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: bilevin@bilevin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FIRST FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISSAC & STERN No. 018258 STATE OF NEW YORK	A-102.00

DEPT OF BLDGS 520991739 Job Number
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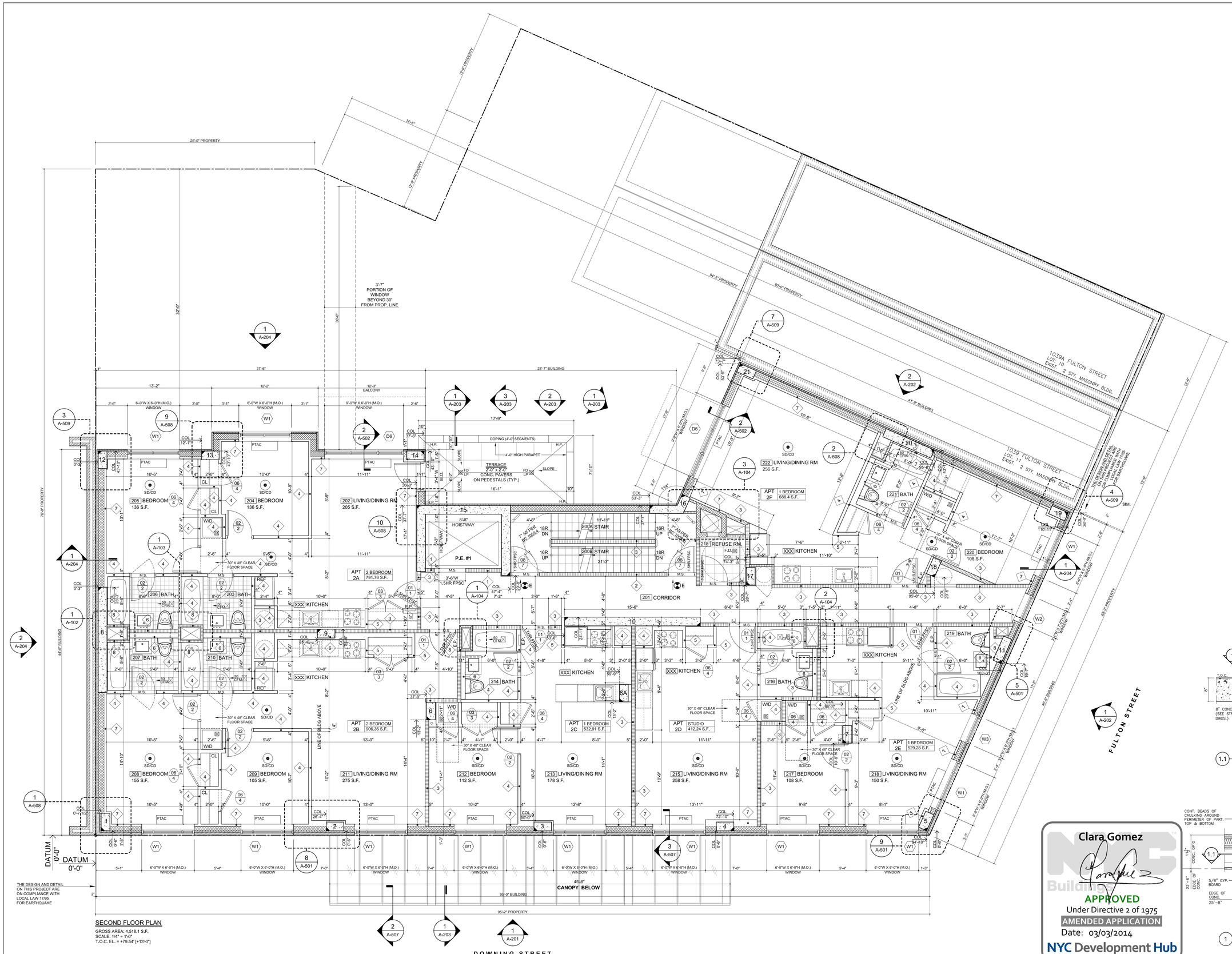


SECOND FLOOR PLAN

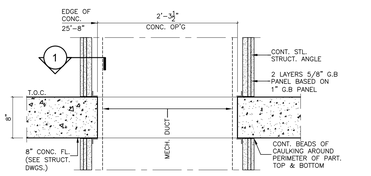
GROSS AREA: 4,518.1 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +79.54' [+13'-0"]

CONSTRUCTION NOTES:

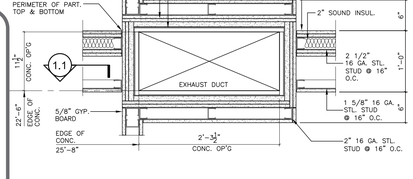
1. ALL ELEVATIONS REFER TO DATUM ELEVATION, MEAN TOP OF CURB ELEVATION AS INDICATED ON EACH PLAN.
2. FOR DRAWING SCHEDULE, SYMBOLS AND KEY TO MATERIALS, SEE DRAWING A-1.
3. ALL DIMENSIONS ARE TO FINISHED GYPSUM BOARD PARTITION OR MASONRY.
4. ALL NEW MASONRY UNITS TO HAVE ADEQUATE STEEL TIES TO STEEL STRUCTURE, SEE ARCHITECTURAL & STRUCTURAL SPECIFICATIONS.
5. ALL CEILINGS TO HAVE TWO LAYERS OF GYPSUM BOARD U.O.N. MOUNTED ON RESILIENT CHANNELS AT UNDERSIDE OF JOISTS.
6. ALL APARTMENT FLOORS TO RECEIVE FINISH OAK HARDWOOD FLOORING WITH EXCLUSION OF BATHROOMS AND KITCHENS.
7. PROVIDE CERAMIC TILE FLOORING IN FRONT OFEACH KITCHEN.
8. INSTALL CERAMIC TILE ON FLOOR AND WALLS FULL HEIGHT AT BATHROOM.
9. PROVIDE W.P. MEMBRANE UNDER KITCHENS AND BATHROOMS, TURN UP VERTICALLY 8" AT WALL INTERSECTIONS.
10. INSTALL ACOUSTICAL INSULATION ABOVE GYPSUMBOARD CEILING IN EACH APARTMENT AT NEW EXTENSION.
11. PROVIDE THERMAL INSULATION WITH NO LESS R19 AT ALL PERIMETER WALLS.
12. PROVIDE THERMAL INSULATION WITH NO LESS R30UNDER MAIN ROOF AND BULKHEAD, SEE ARCHITECTURAL SPECIFICATIONS.
13. ALL GYPSUM BOARD PARTITIONS AT KITCHENS AND BATHROOMS TO BE WATER RESISTANT.
14. PROVIDE 1' FT. DROP GYPSUM BOARD SOFFIT TO SEPARATE BETWEEN KITCHEN AND LIVING AREA.
15. PROVIDE MECHANICAL VENTILATION OF 50 CFM FOR BATHROOMS.
16. ALL ENTRANCE DOORS TO BE 16 GA. H.M. 1½ HR FPSC. AND TWO HAVE PEEP HOLE AND CHAIN AS PER MDL.
17. ALL DOORS TO ROOMS AND CLOSETS TO BE SOLID OAK VENEER, WOOD FLOOR WITH H.M. FRAME, SEE ARCHITECTURAL SPECIFICATIONS.
18. INSTALL ROOFING MEMBRANE WITH 10 YEARS WARRANTY, SEE SPECIFICATIONS. PROVIDE METAL FLASHING, TURN VERTICALLY AT ALL INTERSECTION WITH ROOF.
19. PROVIDE STONE COPING ABOVE ALL ROOF PARAPET AS SHOWN ON DETAILS.
20. INSTALL THERMAL BREAK INSULATED WINDOWS WITH DOUBLE GLAZING. WINDOWS TO BE 1" LESS IN SIZE THAN ROUGH MASONRY OPENING AS INDICATED ON PLAN.
21. ALL ROOF EQUIPMENT TO HAVE VIBRATOR SOUND INSULATOR.
22. PROVIDE BRIDGING AND LATERAL SUPPORT FOR ALL NEW METAL JOIST.
23. REPLACE ALL DEFECTIVE LOOSE LINTELS AT EXISTING WINDOWS.
24. PROVIDE NEW 3 X 5 X 3/8 STEEL ANGLES LINTEL AT ALL NEW MASONRY OPENING.

INDEX OF VENTILATION SCHEDULE AS PER MDL
2ND FLOOR

ROOM NO.	AREA S.F.	REQ. GLAZED	PROV. GLAZED	REQ. OPER.	PROV. OPER.
202	205	20.5	21.4	10.2	18.0
204	136	13.6	36	6.8	11.7
205	136	13.6	36	6.8	11.7
208	155	15.5	36	7.75	11.7
209	105	10.5	36	5.2	11.7
211	275	27.5	36	13.75	11.7
212	112	11.2	36	5.6	11.7
213	178	17.8	36	8.9	11.7
215	258	25.8	36	12.9	11.7
217	108	10.8	36	5.4	11.7
218	150	15.0	92	7.5	23.4
220	108	10.8	36	5.4	11.7
222	256	25.6	54	12.8	24.5



1.1 SECTION T.X. @ 2ND TO 6TH FLOOR



1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

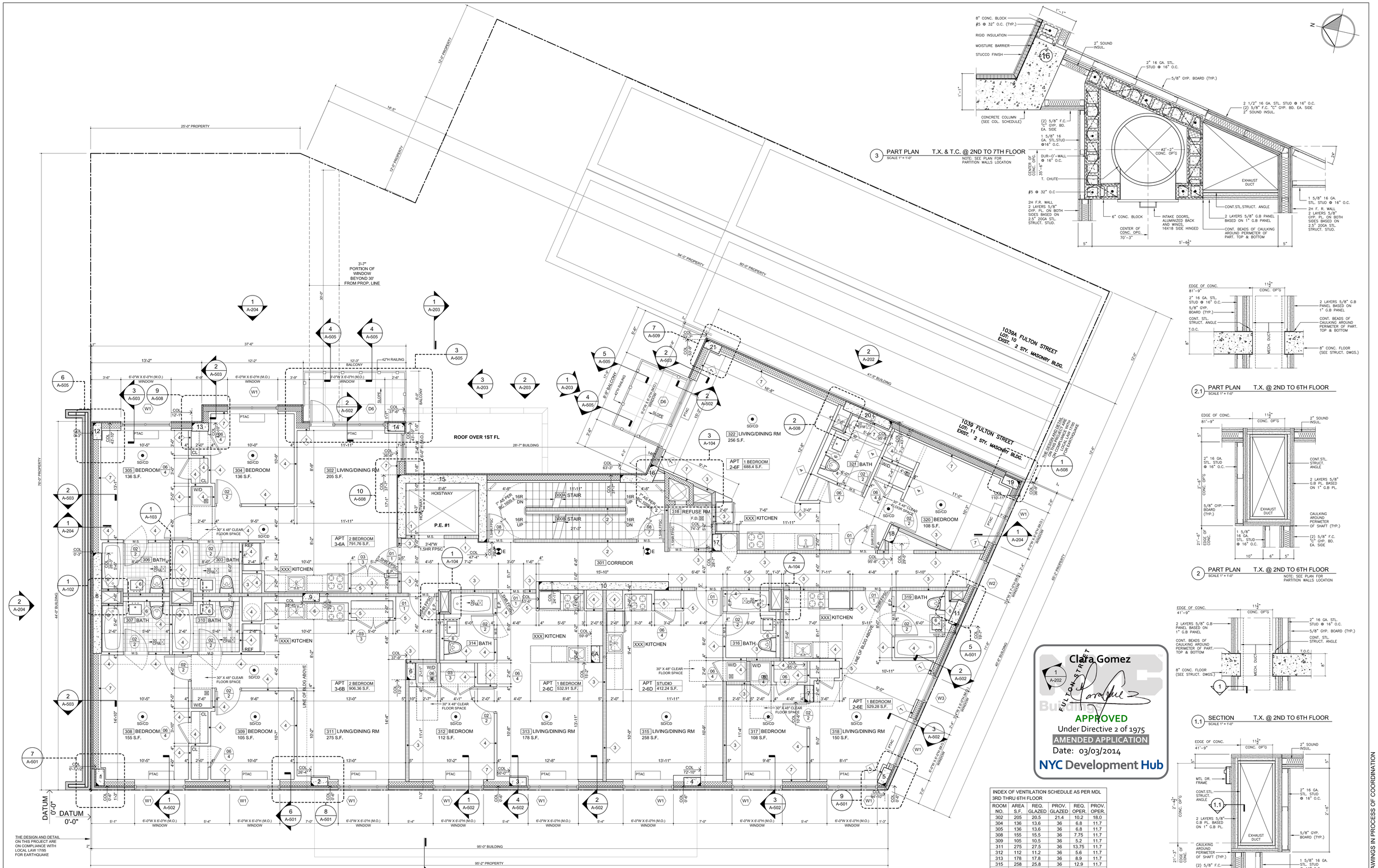
PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dudley Street, 2nd Floor Brooklyn, NY 11222 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECOND FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4. 5.	A-103.00

REGISTERED ARCHITECT ISSAC & STERN ARCHITECTS, P.C. No. 016258 STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number

E345685b3506 Scan Code



THIRD TO SIXTH FLOOR PLAN

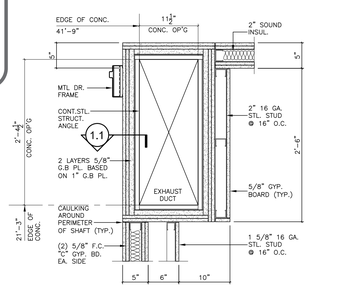
GROSS AREA: 4,518.1 S.F.
SCALE: 1/4" = 1'-0"
3RD FLOOR T.O.C. EL. = +89.79' [+23'-3"]
4TH FLOOR T.O.C. EL. = +100.04' [+33'-0"]
5TH FLOOR T.O.C. EL. = +110.29' [+43'-9"]
6TH FLOOR T.O.C. EL. = +120.54' [+54'-0"]

3 PART PLAN T.X. & T.C. @ 2ND TO 7TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

2.1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"

2 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

1.1 SECTION T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"



1 PART PLAN T.X. @ 2ND TO 6TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

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FULTON STREET
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Date: 03/03/2014
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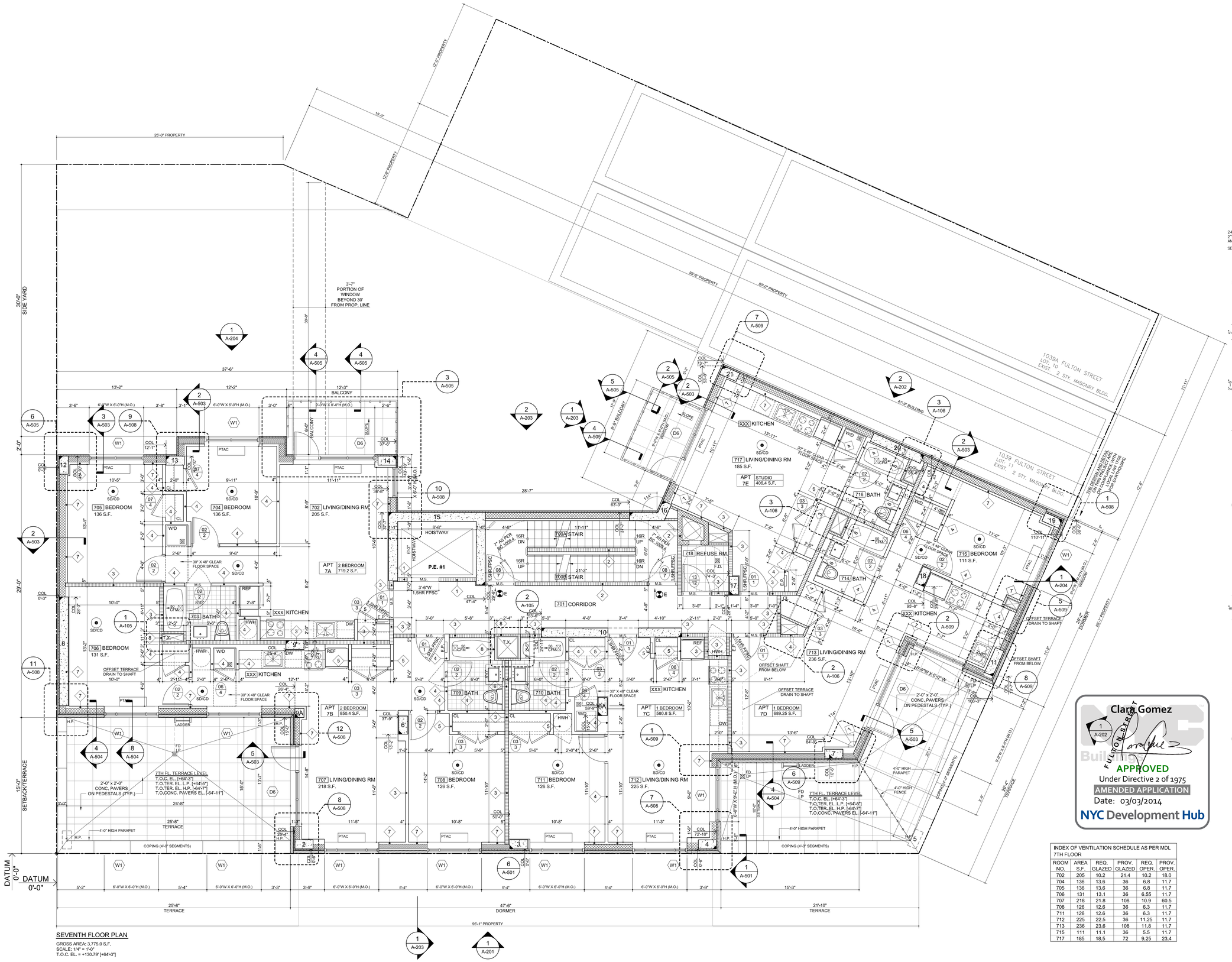
INDEX OF VENTILATION SCHEDULE AS PER MDL 3RD THRU 6TH FLOOR

ROOM NO.	AREA S.F.	REQ. GLAZED	PROV. GLAZED	REQ. OPER.	PROV. OPER.
302	205	20.5	21.4	10.2	18.0
304	136	13.6	36	6.8	11.7
305	136	13.6	36	6.8	11.7
308	155	15.5	36	7.75	11.7
309	105	10.5	36	5.2	11.7
311	275	27.5	36	13.75	11.7
312	112	11.2	36	5.6	11.7
313	178	17.8	36	8.9	11.7
315	258	25.8	36	12.9	11.7
317	108	10.8	36	5.4	11.7
318	150	15.0	92	7.5	23.4
320	108	10.8	36	5.4	11.7
322	256	25.6	54	12.8	24.5

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

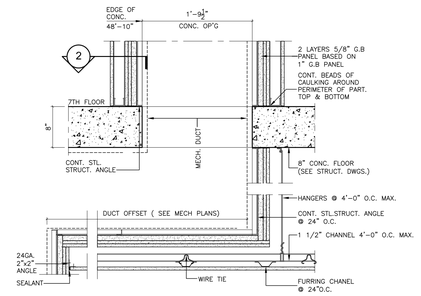
OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-41 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 39 Dooley Street, 2nd Floor Brooklyn, NY 11206 P: (718) 332-0290 F: (718) 332-0274 E: bleven@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St. 9th Floor New York NY 10001 212-255-5000 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	TYPICAL THIRD TO SIXTH FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISAAC & STERN No. 016258 STATE OF NEW YORK	A-104.00

DEPT OF BLDGS 520991739 Job Number
E543191956I Scan Code

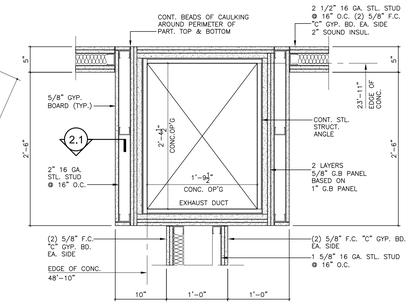


SEVENTH FLOOR PLAN

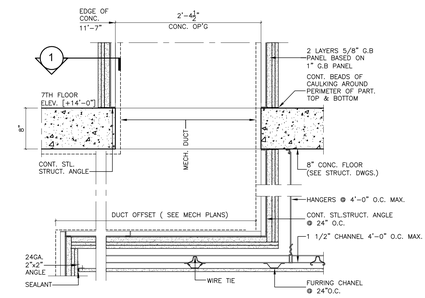
GROSS AREA: 3,775.0 S.F.
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +130.79' [+64'-3"]



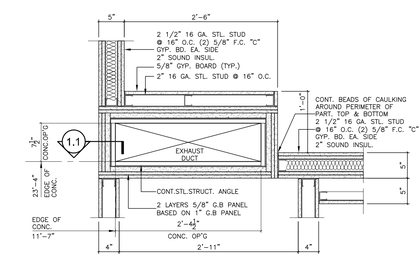
2.1 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"



2 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



1.1 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"



1 PART PLAN — T.X. @ 7TH FLOOR
SCALE 1" = 1'-0"
NOTE: SEE PLAN FOR PARTITION WALLS LOCATION

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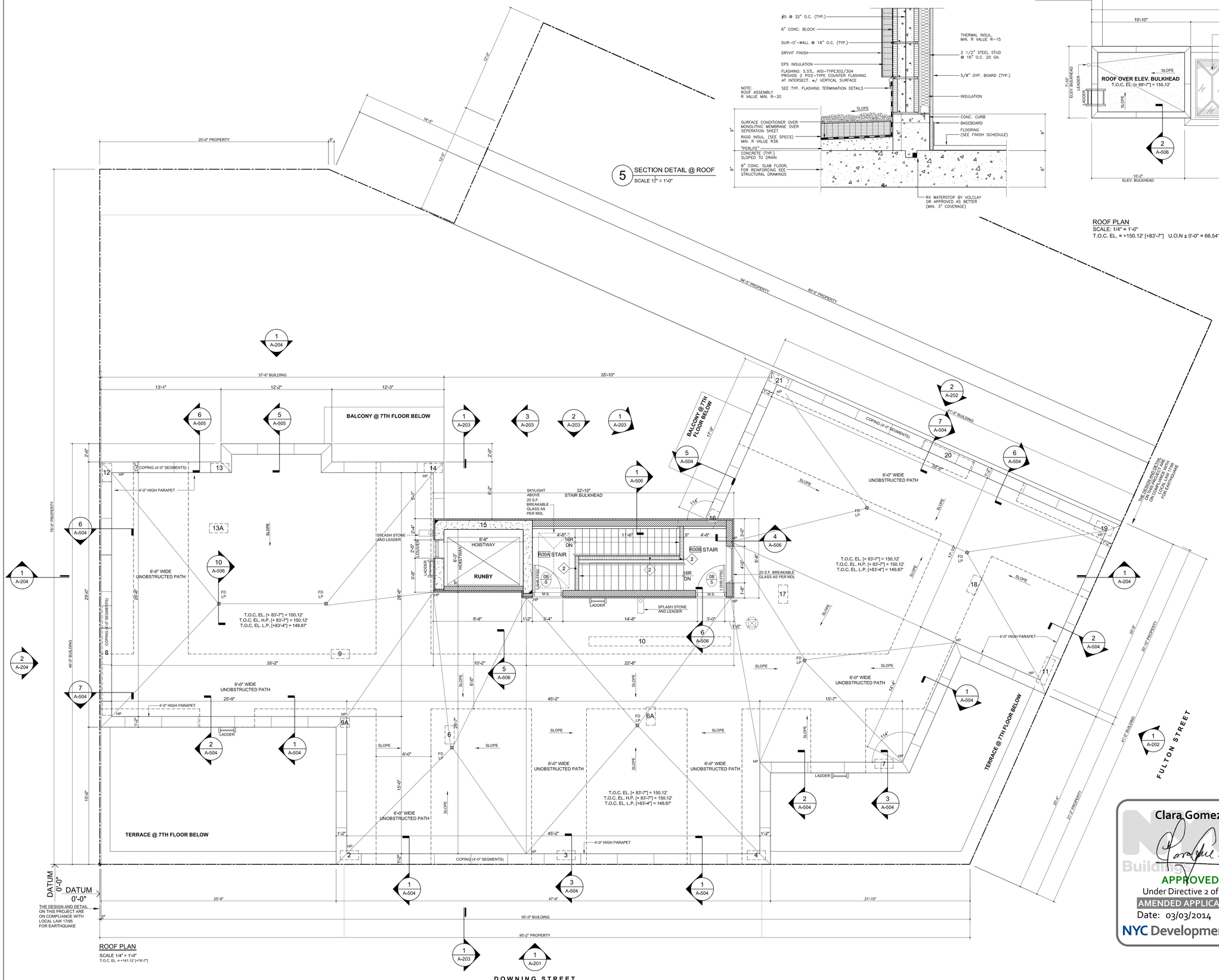
INDEX OF VENTILATION SCHEDULE AS PER MDL 7TH FLOOR					
ROOM NO.	AREA S.F.	REQ. GLAZED	PROV. GLAZED	REQ. OPER.	PROV. OPER.
702	205	10.2	21.4	10.2	18.0
704	136	13.6	36	6.8	11.7
705	136	13.6	36	6.8	11.7
706	131	13.1	36	6.55	11.7
707	218	21.8	108	10.9	60.5
708	126	12.6	36	6.3	11.7
711	126	12.6	36	6.3	11.7
712	225	22.5	36	11.25	11.7
713	236	23.6	108	11.8	11.7
715	111	11.1	36	5.5	11.7
717	185	18.5	72	9.25	23.4

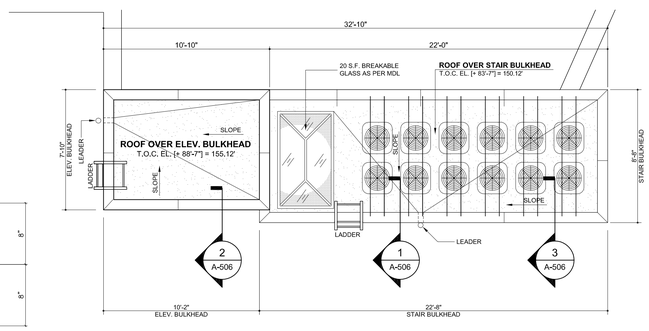
PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SEVENTH FLOOR PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT MARIO ISSAC NO. 018258 STATE OF NEW YORK	A-105.00

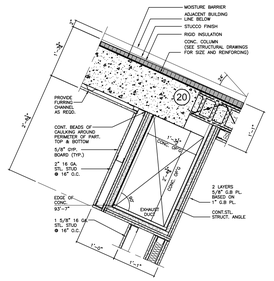
DEPT OF BLDGS 500991739 Job Number
ES1012585356 Scan Code



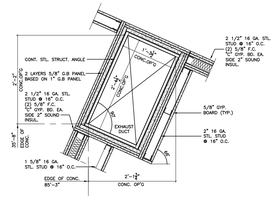
5 SECTION DETAIL @ ROOF
SCALE 12" = 1'-0"



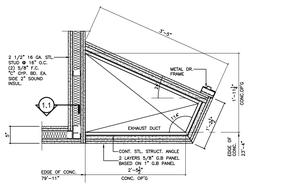
ROOF PLAN
SCALE: 1/4" = 1'-0"
T.O.C. EL. = +150.12' [+83'-7"] U.O.N ± 0'-0" = 66.54' AS INDICATED ON SURVEY DATED = 12-10-2012



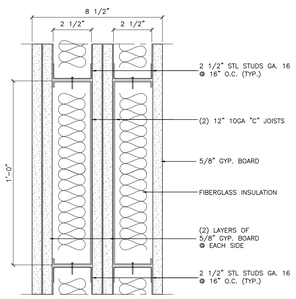
4 PART PLAN T.X. @ 7TH FLOOR
SCALE 1" = 1'-0" NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



3 PART PLAN T.X. @ 7TH FLOOR
SCALE 1" = 1'-0" NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



2 PART PLAN T.X. @ 7TH FLOOR
SCALE 1" = 1'-0" NOTE: SEE PLAN FOR PARTITION WALLS LOCATION



1 SECTION DETAIL @ STAIR'S FIRE RATED SEPARATION WALL
SCALE 3" = 1'-0"

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PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ROOF AND BULKHEAD PLAN SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. REV. 02-05-2014 4.	REGISTERED ARCHITECT BARRY ISSAC STATE OF NEW YORK	A-106.01

DEPT OF BLDGS 520991739 Job Number
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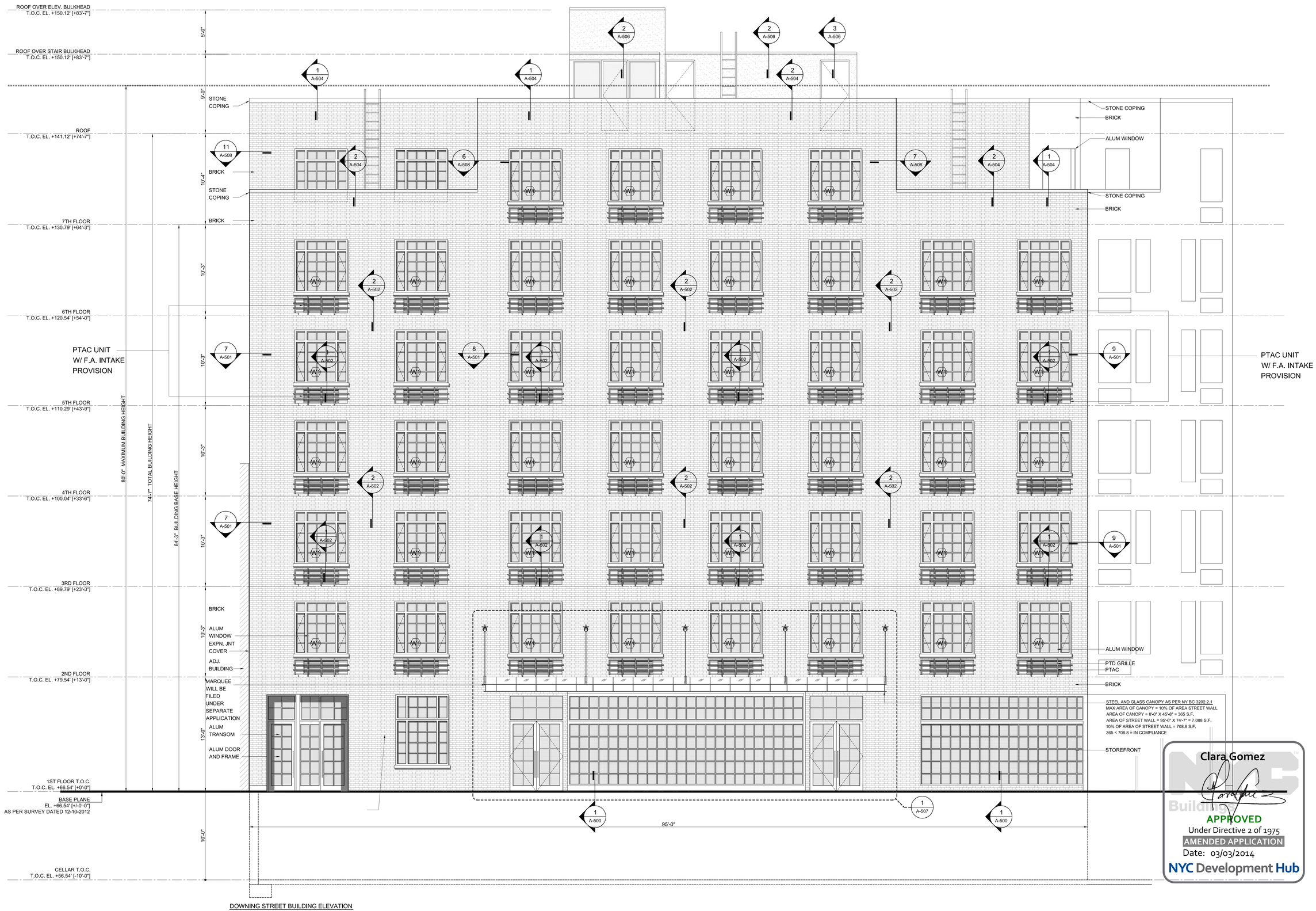

DOWNING STREET BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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PROGRESS DRAWINGS IN PROCESS OF COORDINATION

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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York,NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FRONT ELEVATION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ANDREW J. STERN No. 016	A-201.00

DEPT OF BLDGS 520991739 Job Number
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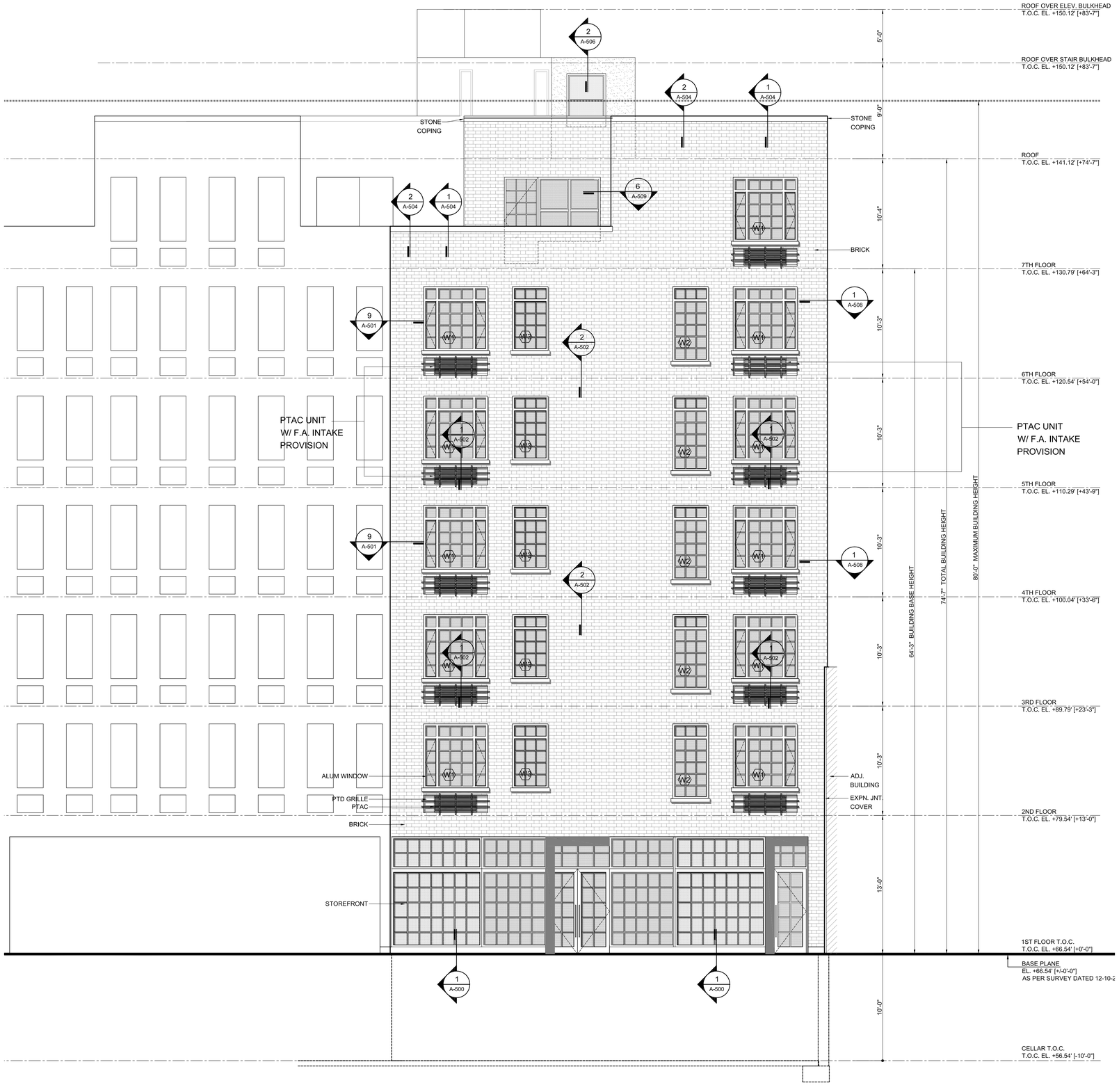
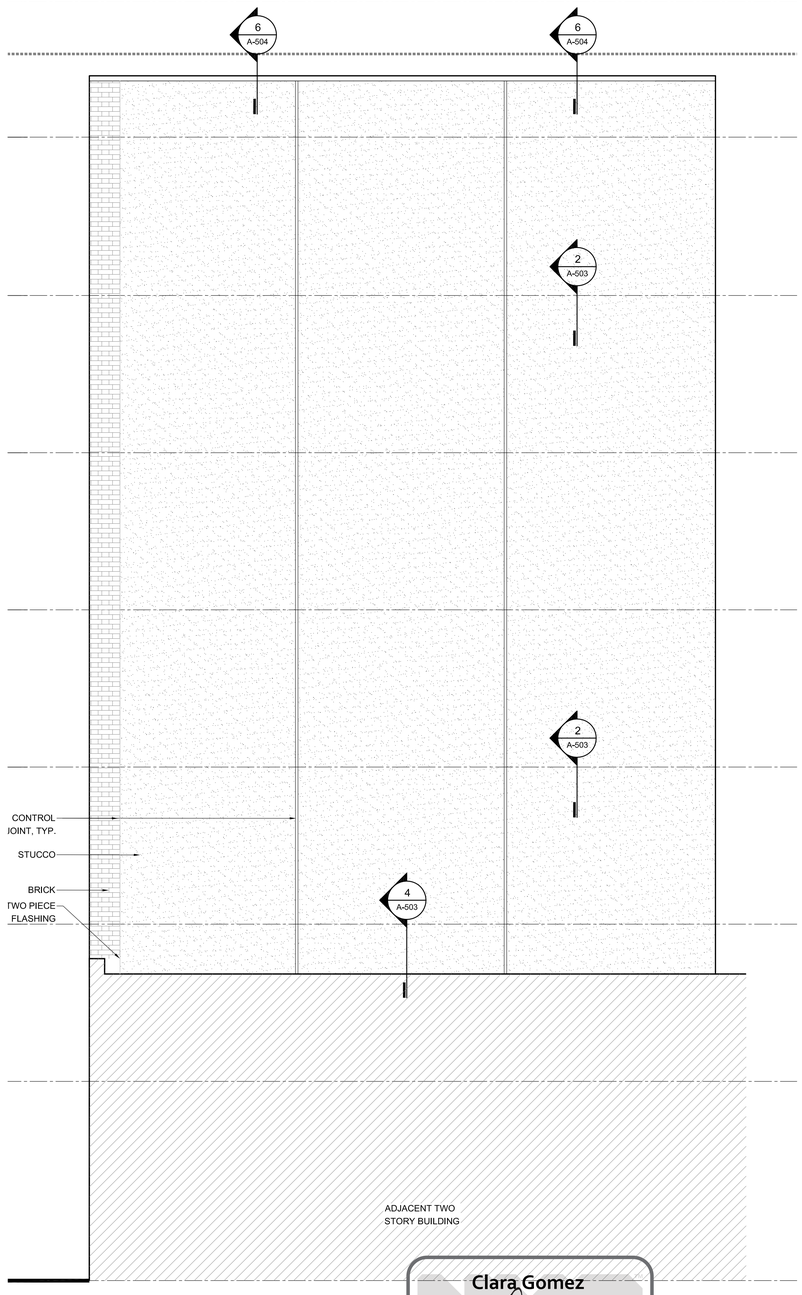


FULTON STREET BUILDING ELEVATION
SCALE: 1/4" = 1'-0"



SIDE BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St. 9th Floor New York NY 10001 212-206-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ELEVATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ARTHUR ISSAC STATE OF NEW YORK	A-202.00

DEPT OF BLDGS 520991739 Job Number
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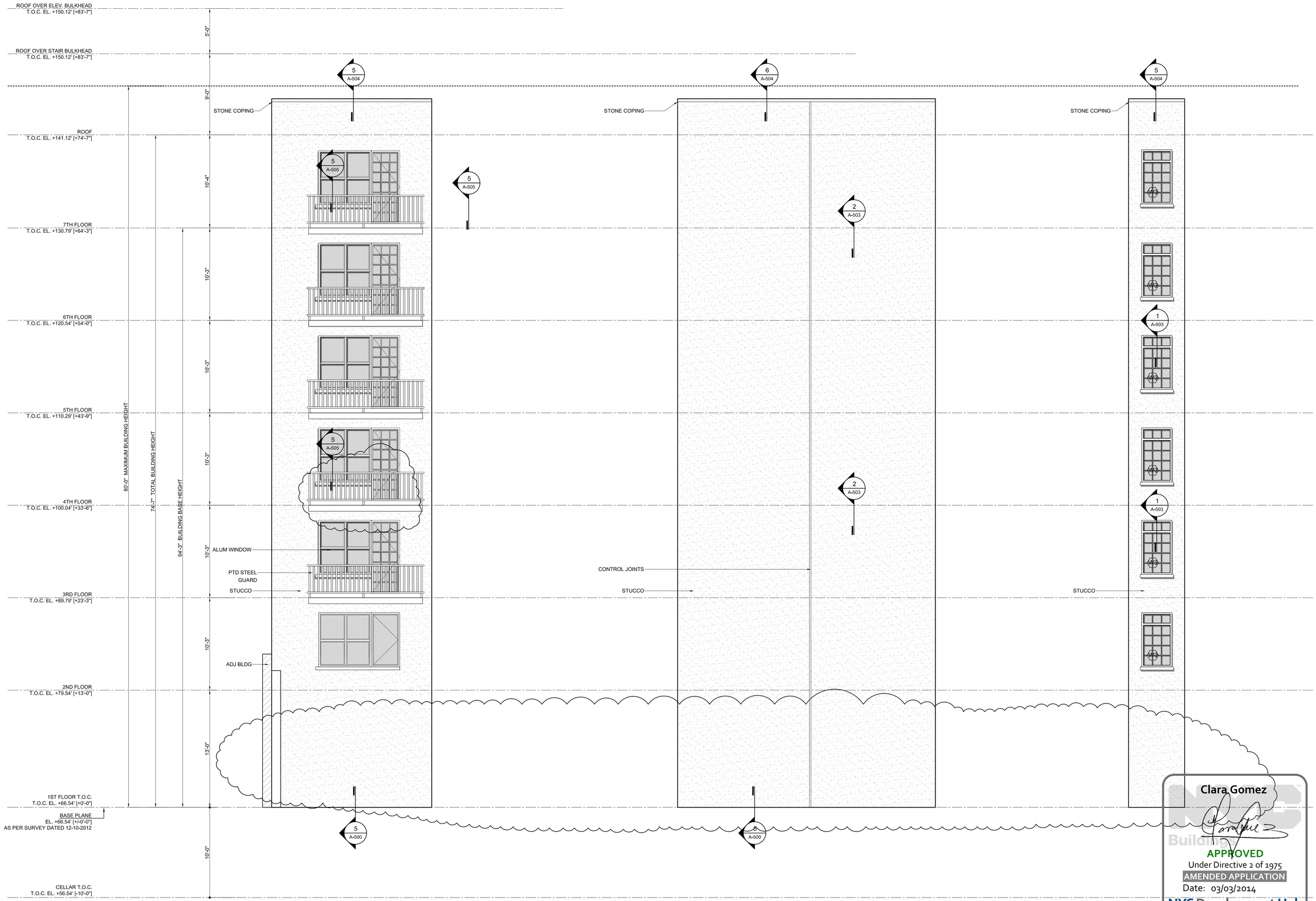

PART REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

PART REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

PART REAR BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ELEVATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-203.00

DEPT OF BLDGS 520991739 Job Number
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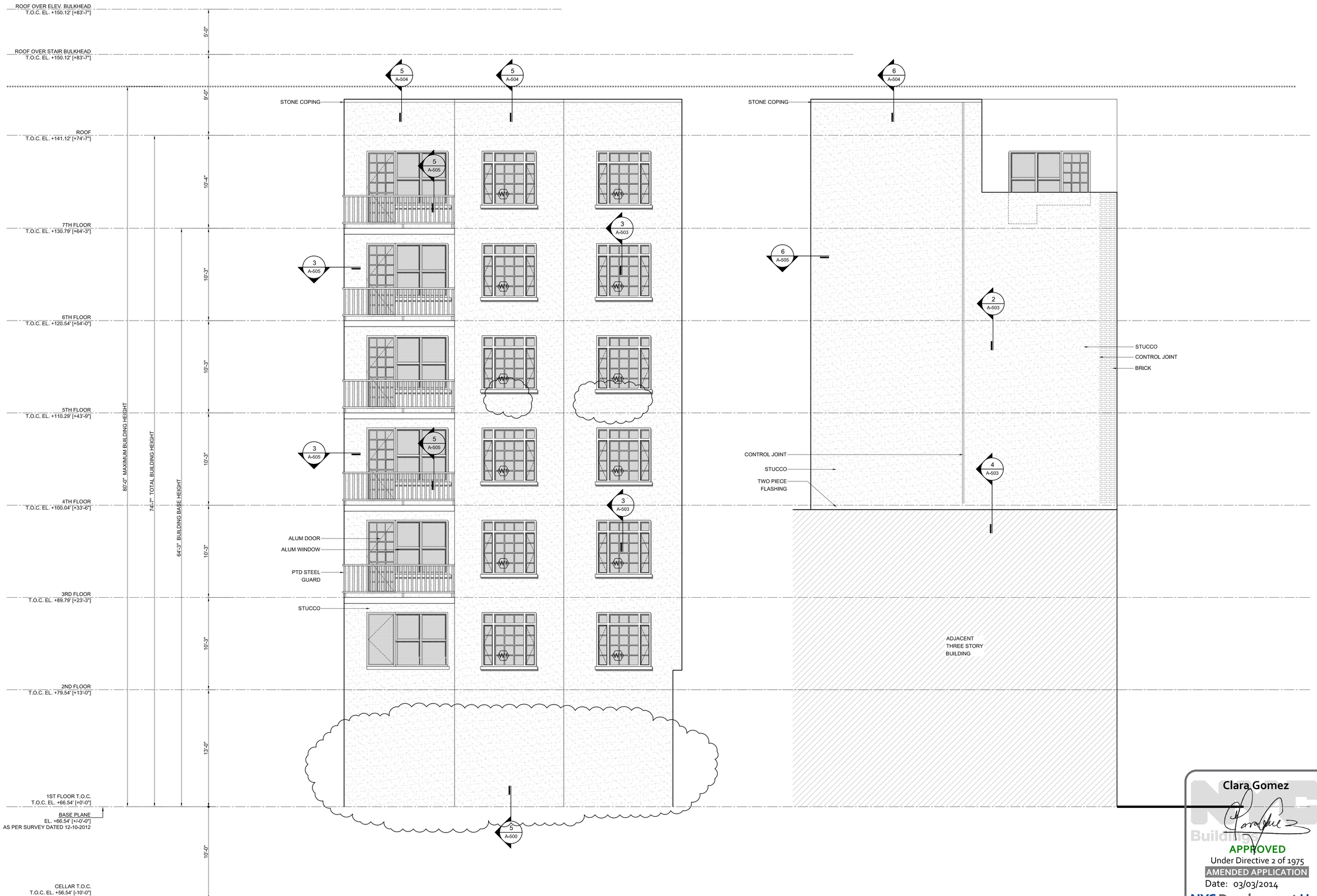

PART REAR ELEVATION
SCALE: 1/4"= 1'-0"

SIDE BUILDING ELEVATION
SCALE: 1/4"= 1'-0"

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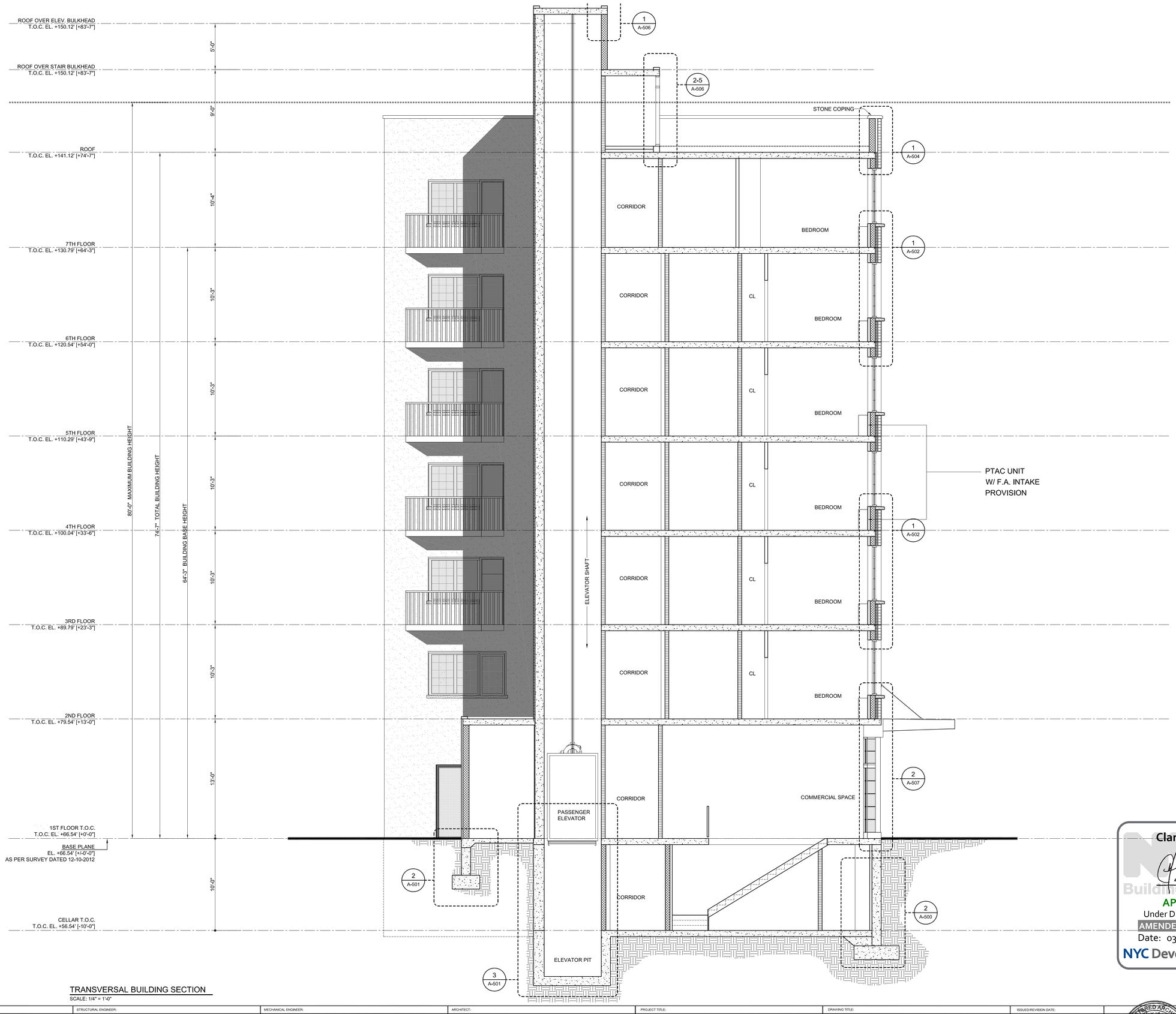
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-0274 E: blevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-6600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ELEVATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT STATE OF NEW YORK	A-204.00

DEPT OF BLDGS 520991739 Job Number
E347128393 Scan Code



TRANSVERSAL BUILDING SECTION

SCALE: 1/4" = 1'-0"

Clara Gomez

NYC Buildings

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-205.00

REGISTERED ARCHITECT CLARA GOMEZ No. 018268 STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number
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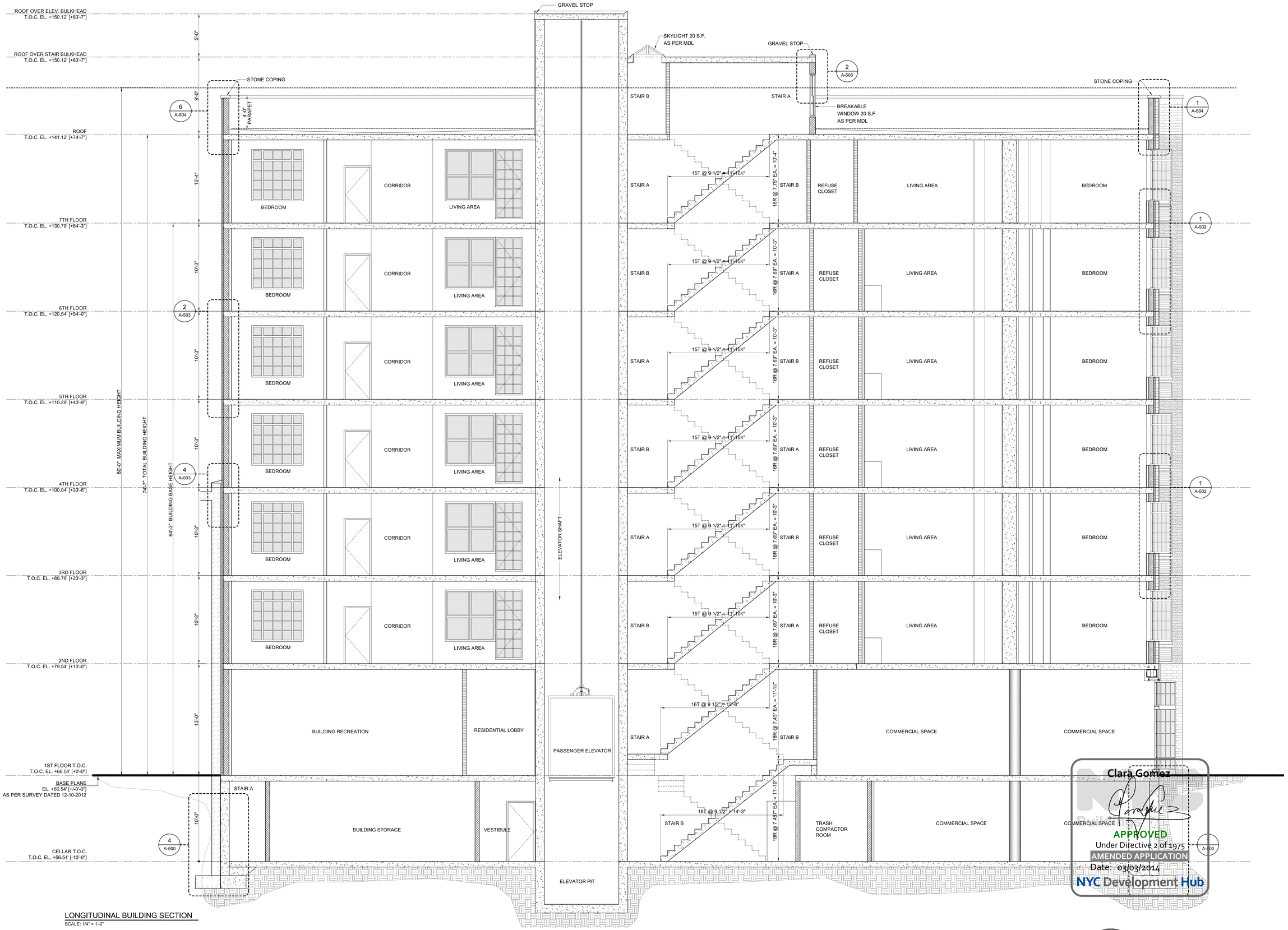

LONGITUDINAL BUILDING SECTION
SCALE: 1/4" = 1'-0"

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-3266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-206.00

REGISTERED ARCHITECT
ALAN S. ISAAC
No. 016238
STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number
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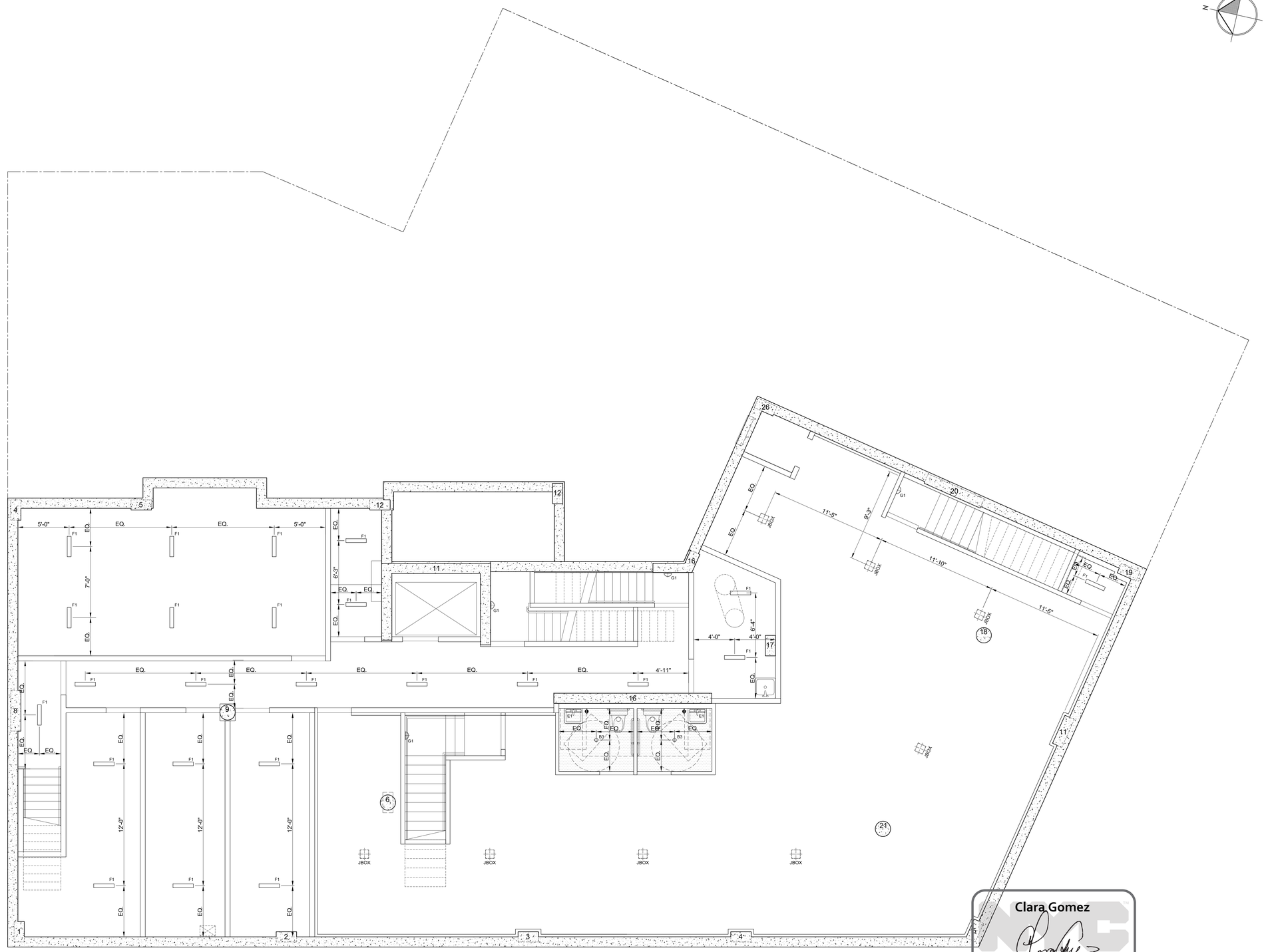


CELLAR PLAN
SCALE: 1/4" = 1'-0"

LEGEND

	OUTLET
	GFI OUTLET (KITCHEN, BATHROOM AND EXTERIOR)
	CABLES OUTLET
	TELEPHONE
	8'-0" CEILING HEIGHT ABOVE F.F.
	JUNCTION BOX

INTERIOR FIXTURE DESCRIPTIONS

	FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
A1	A1	3-3/4" APERTURE, LOW AND LINE VOLTAGE, AJUSTABLE PREMIUM DIE-CAST STEP BAFFLE	LIGHTOLIER # 305WHWX 4-1/2" H. WHITE STEP BAFFLE AND SELF-FLANGE	50W ES/ESD16	120V 50W	0	0
B3	B3	3-3/4" APERTURE, LOW AND LINE VOLTAGE, SHOWER LIGHT (WET LOCATION)	LIGHTOLIER # 376WHX 4-5/8" H. WHITE FROSTED GLASS AND WHITE FLANGE	50W MR16	120V/12V 50W	2	100
C1	C1	6" APERTURE, RECESSED COMPACT FLUORESCENT DOWN-LIGHT	LIGHTOLIER # 8031CCDW TRIM # S6132BU HOUSING	26W TRIPLE TUBE COMPACT FLUORESCENT 3000K, 82CRI O/C #CF26DT/E/830	120V 26W MAX	0	0
C2	C2	11" LUMIDISC WHITE CEILING MOUNTED FLUORESCENT, INJECTION MOLDED ACRYLIC DIFFUSER.	LIGHTOLIER 6750WH213U	(2) 13W Quad Tube 4-Pin General Electric F13DBX/SPX.I4P	120V 13W	0	0
E1	E1	SHATTER - RESISTANT, DECORATIVE SCONCE/MIRROR LIGHT	LIGHTOLIER, HELIOS # 5412PC TWO-LAMP POL. CHROME. 24 1/2" W. BATHROOMS # 5410PC ONE LAMP POL CHROME. 13 3/4" W.	18W/39W COMPACT FLUORESCENT 3000K, 82CRI O/S # FT18W/2G11/830	120V 18W/39W	0	0
F1	F1	ONE LAMP T8 FLUORESCENT CHANNEL	MERCURY 3'-#MM-125-OCT-C-ELB-120 4'-#MM-132-OCT-C-ELB-120	25W/32W T8 82CRI 3500K O/S # FO25/835 O/S # FO32/835	120V 50W 64W	30	1920
G1	G1	16" SQ. WALL MOUNTED FLUORESCENT	LIGHTOLIER # 10351WH	2 OF 27W TWIN TUBE 4-PINE COMPACT FLUORESCENT, 2700K, 82CRI	120V 54W	3	162
						TOTAL WATTS	2182

EXTERIOR FIXTURE DESCRIPTIONS

	FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
T1	T1	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH OPAL GLASS DIFFUSER AND BLACK DIE-CAST ALUMINUM BRACKET ARM.	BEGA LIGHTING # 6531P BLACK	13W COMPACT FLUORESCENT 3000K, 82CRI O/S # CF13DD/E/830	120V 26W	0	0
T2	T2	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH CRYSTAL GLASS DIFFUSER AND DIE-CAST ALUMINUM FRAME.	BEGA LIGHTING # 2632P-BL BLACK # 2632P-WH WHITE	(2) 26W QUAD 4-PIN 3000K, 82CRI O/S# CF26DD/E/830	120V 52W	0	0
						TOTAL WATTS	0

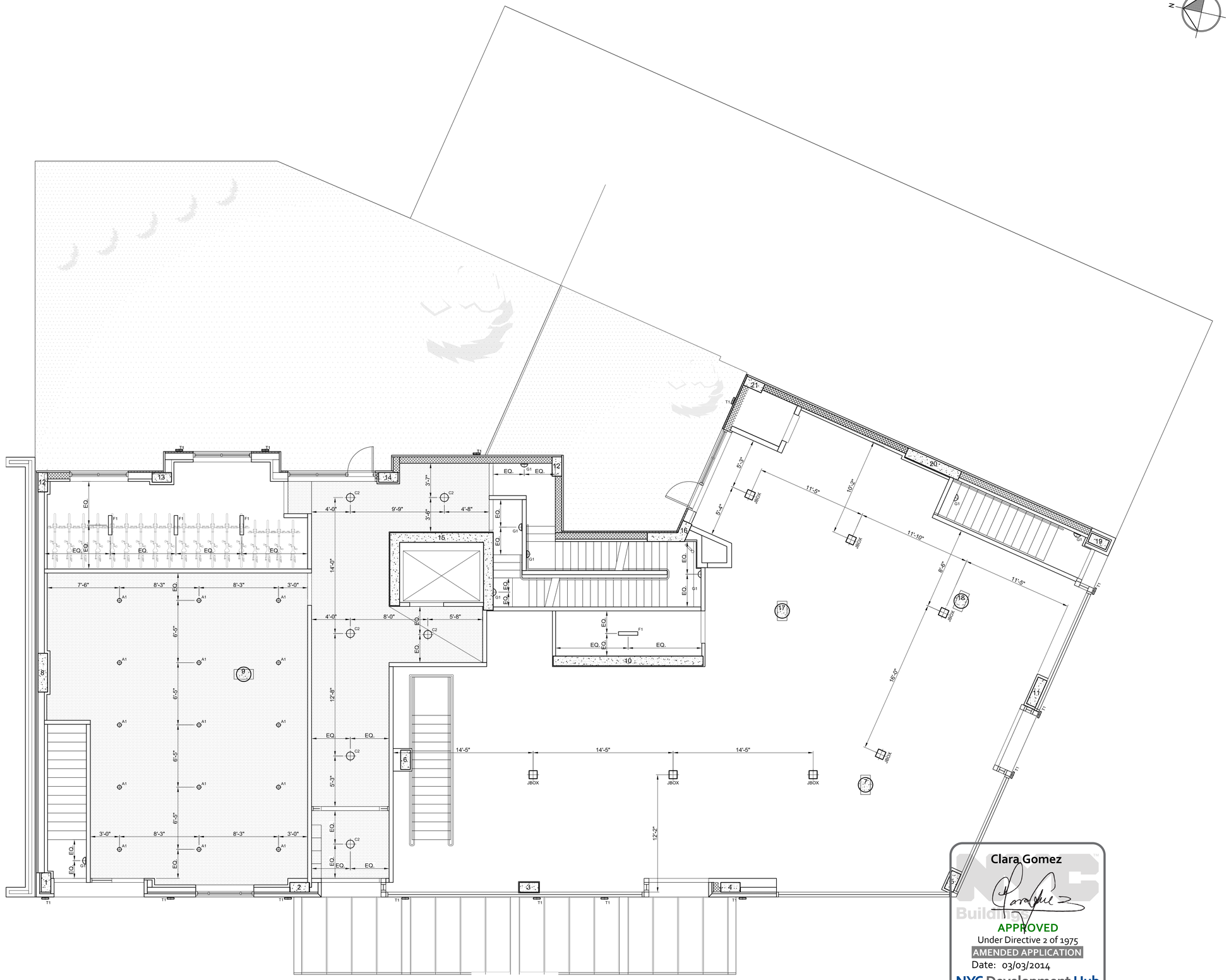
Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com Issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CELLAR RCP. AND LEGEND SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A300.00

REGISTERED ARCHITECT ISAAC & STERN NO. 018258 STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number
ES9445486664 Scan Code



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

LEGEND

	OUTLET
	GFI OUTLET (KITCHEN, BATHROOM AND EXTERIOR)
	CABLES OUTLET
	TELEPHONE
	8'-0" CEILING HEIGHT ABOVE F.F.
	JUNCTION BOX

INTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
A1	3-3/4" APERTURE, LOW AND LINE VOLTAGE, AJUSTABLE PREMIUM DIE-CAST STEP BAFFLE	LIGHTOLIER # 305WHWX 4-1/2" H. WHITE STEP BAFFLE AND SELF-FLANGE	50W ES/ESD16	120V 50W	15	750
B3	3-3/4" APERTURE, LOW AND LINE VOLTAGE, SHOWER LIGHT (WET LOCATION)	LIGHTOLIER # 376WHX 4-5/8" H. WHITE FROSTED GLASS AND WHITE FLANGE	50W MR16	120V/12V 50W	2	100
C1	6" APERTURE, RECESSED COMPACT FLUORESCENT DOWN-LIGHT	LIGHTOLIER # 8031CCDW TRIM # 56132BU HOUSING	26W TRIPLE TUBE COMPACT FLUORESCENT 3000K, 82CRI O/C #CF26DT/E/830	120V 26W MAX	0	0
C2	11" LUMIDISC WHITE CEILING MOUNTED FLUORESCENT. INJECTION MOLDED ACRYLIC DIFFUSER.	LIGHTOLIER 6750WH213U	(2) 13W Quad Tube 4-Pin General Electric F13DBX/SPX /4P	120V 13W	6	78
E1	SHATTER - RESISTANT, DECORATIVE SCONCE/MIRROR LIGHT	LIGHTOLIER. HELIOS # 5412PC TWO-LAMP POL. CHROME. 24 1/2" W. BATHROOMS # 5410PC ONE LAMP POL CHROME. 13 3/4" W.	18W/39W COMPACT FLUORESCENT 3000K, 82CRI O/S # FT18W/2G11/830	120V 18W/39W	0	0
F1	ONE LAMP T8 FLUORESCENT CHANNEL	MERCURY 3'-#MM-125-OCT-C-ELB-120 4'-#MM-132-OCT-C-ELB-120	25W/32W T8 82CRI 3500K O/S # FO25/835 O/S # FO32/835	120V 50W 64W	4	256
G1	16" SQ. WALL MOUNTED FLUORESCENT	LIGHTOLIER # 10351WH	2 OF 27W TWIN TUBE 4-PINE COMPACT FLUORESCENT, 2700K, 82CRI	120V 54W	8	432
					TOTAL WATTS	1616

EXTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
T1	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH OPAL GLASS DIFFUSER AND BLACK DIE-CAST ALUMINUM BRACKET ARM.	BEGA LIGHTING # 6531P BLACK	13W COMPACT FLUORESCENT 3000K, 82CRI O/S # CF 13DD/E/830	120V 26W	11	286
T2	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH CRYSTAL GLASS DIFFUSER AND DIE-CAST ALUMINUM FRAME.	BEGA LIGHTING # 2632P-BL BLACK # 2632P-WH WHITE	(2) 26W QUAD 4-PIN 3000K, 82CRI O/S# CF26DD/E/830	120V 52W	0	0
					TOTAL WATTS	286

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	1ST FLOOR RCP AND LEGEND SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4. 5.	REGISTERED ARCHITECT CLARA I. ISSAC No. 018728 STATE OF NEW YORK	A301.00

DEPT OF BLDGS 520991739 Job Number
ES628947719 Scan Code

LEGEND

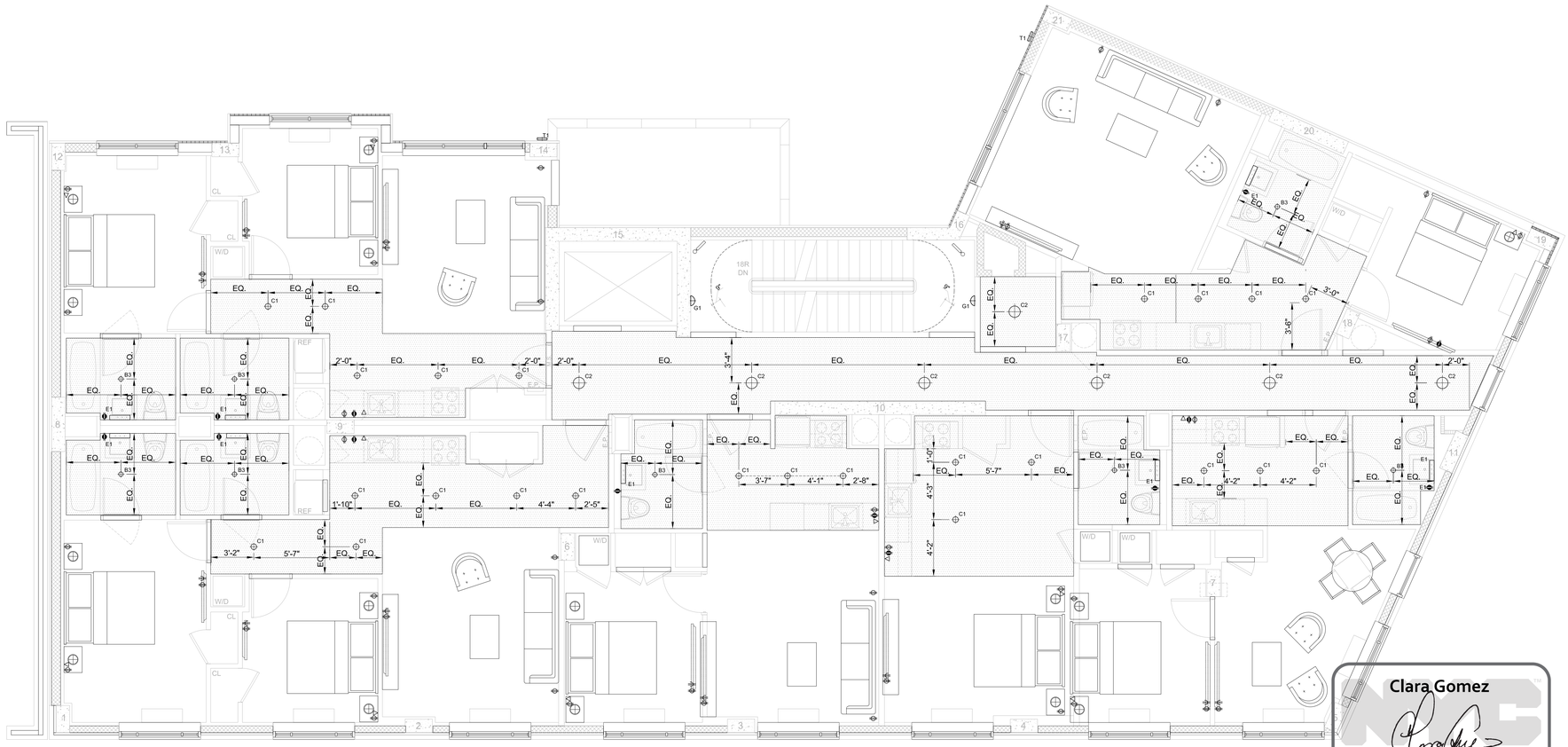
	OUTLET
	GFI OUTLET (KITCHEN, BATHROOM AND EXTERIOR)
	CABLES OUTLET
	TELEPHONE
	8'-0" CEILING HEIGHT ABOVE F.F.
	JUNCTION BOX

INTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
A1	3-3/4" APERTURE, LOW AND LINE VOLTAGE, AJUSTABLE PREMIUM DIE-CAST STEP BAFFLE	LIGHTOLIER # 305WHWX 4-1/2" H. WHITE STEP BAFFLE AND SELF-FLANGE	50W ES/ESD16	120V 50W	0	0
B3	3-3/4" APERTURE, LOW AND LINE VOLTAGE, SHOWER LIGHT (WET LOCATION)	LIGHTOLIER # 376WHX 4-5/8" H. WHITE FROSTED GLASS AND WHITE FLANGE	50W MR16	120V/12V 50W	8	400
C1	6" APERTURE, RECESSED COMPACT FLUORESCENT DOWN-LIGHT	LIGHTOLIER # 8031CCDW TRIM # 56132BU HOUSING	26W TRIPLE TUBE COMPACT FLUORESCENT 3000K, 82CRI O/C #CF26DT/E/830	120V 26W MAX	24	624
C2	11" LUMIDISC WHITE CEILING MOUNTED FLUORESCENT, INJECTION MOLDED ACRYLIC DIFFUSER.	LIGHTOLIER 6750WH213U	(2) 13W Quad Tube 4-Pin General Electric F13DB/X/SPX /4P	120V 13W	7	91
E1	SHATTER - RESISTANT, DECORATIVE SCONCE/MIRROR LIGHT	LIGHTOLIER, HELIOS # 5412PC TWO-LAMP POL. CHROME, 24 1/2" W. BATHROOMS # 5410PC ONE LAMP POL CHROME, 13 3/4" W.	18W/39W COMPACT FLUORESCENT 3000K, 82CRI O/S # FT18W/2G11/830	120V 18W/39W	0	0
F1	ONE LAMP T8 FLUORESCENT CHANNEL	MERCURY 3'-#MM-125-OCT-C-ELB-120 4'-#MM-132-OCT-C-ELB-120	25W/32W T8 82CRI 3500K O/S # FO25/835 O/S # FO32/835	120V 50W 64W	0	0
G1	16" SQ. WALL MOUNTED FLUORESCENT	LIGHTOLIER # 10351WH	2 OF 27W TWIN TUBE 4-PINE COMPACT FLUORESCENT, 2700K, 82CRI	120V 54W	2	108
					TOTAL WATTS	1223

EXTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
T1	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH OPAL GLASS DIFFUSER AND BLACK DIE-CAST ALUMINUM BRACKET ARM.	BEGA LIGHTING # 6531P BLACK	13W COMPACT FLUORESCENT 3000K, 82CRI O/S # CF13DD/E/830	120V 26W	10	260
T2	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH CRYSTAL GLASS DIFFUSER AND DIE-CAST ALUMINUM FRAME.	BEGA LIGHTING # 2632P-BL BLACK # 2632P-WH WHITE	(2) 26W QUAD 4-PIN 3000K, 82CRI O/S# CF26DD/E/830	120V 52W	0	0
					TOTAL WATTS	52



SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 40-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dudley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	2ND FLOOR RCP AND LEGEND SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISSAC & STERN No. 018258 STATE OF NEW YORK	A302.00

DEPT OF BLDGS 520991739 Job Number
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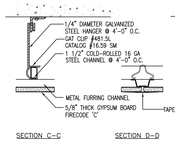
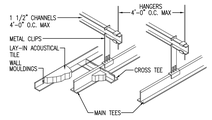
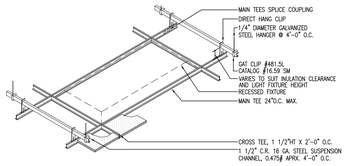


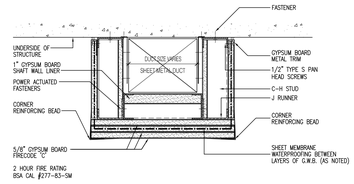
1 SECTION DETAIL @ FIRE RATED CEILING
SCALE 1" = 1'-0"



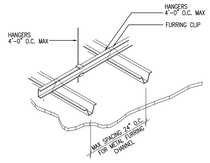
2 FIRE RATED TYPICAL SOFFIT
SCALE 1" = 1'-0"



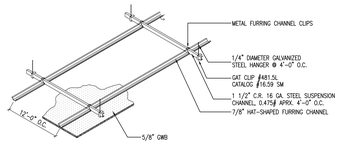
3 SUSPENDED ACOUSTICAL CEILING ASSEMBLY
SCALE 1" = 1'-0"



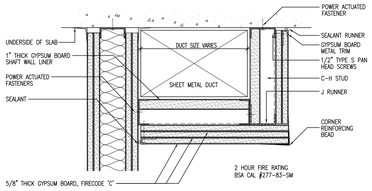
4 SECTION DETAIL @ HORIZONTAL DUCT PROTECTION
SCALE 1" = 1'-0"



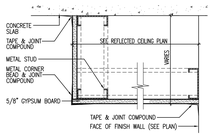
5 FIRE RATED TYPICAL SOFFIT
SCALE 1" = 1'-0"



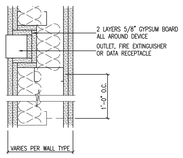
6 SUSPENDED ACOUSTICAL CEILING ASSEMBLY
SCALE 1" = 1'-0"



7 SECTION DETAIL @ HORIZONTAL DUCT PROTECTION
SCALE 1" = 1'-0"



8 FIRE RATED TYPICAL SOFFIT DETAIL
SCALE 1" = 1'-0"



9 RECESS IN RATED PARTITION
SCALE 1" = 1'-0"

LEGEND

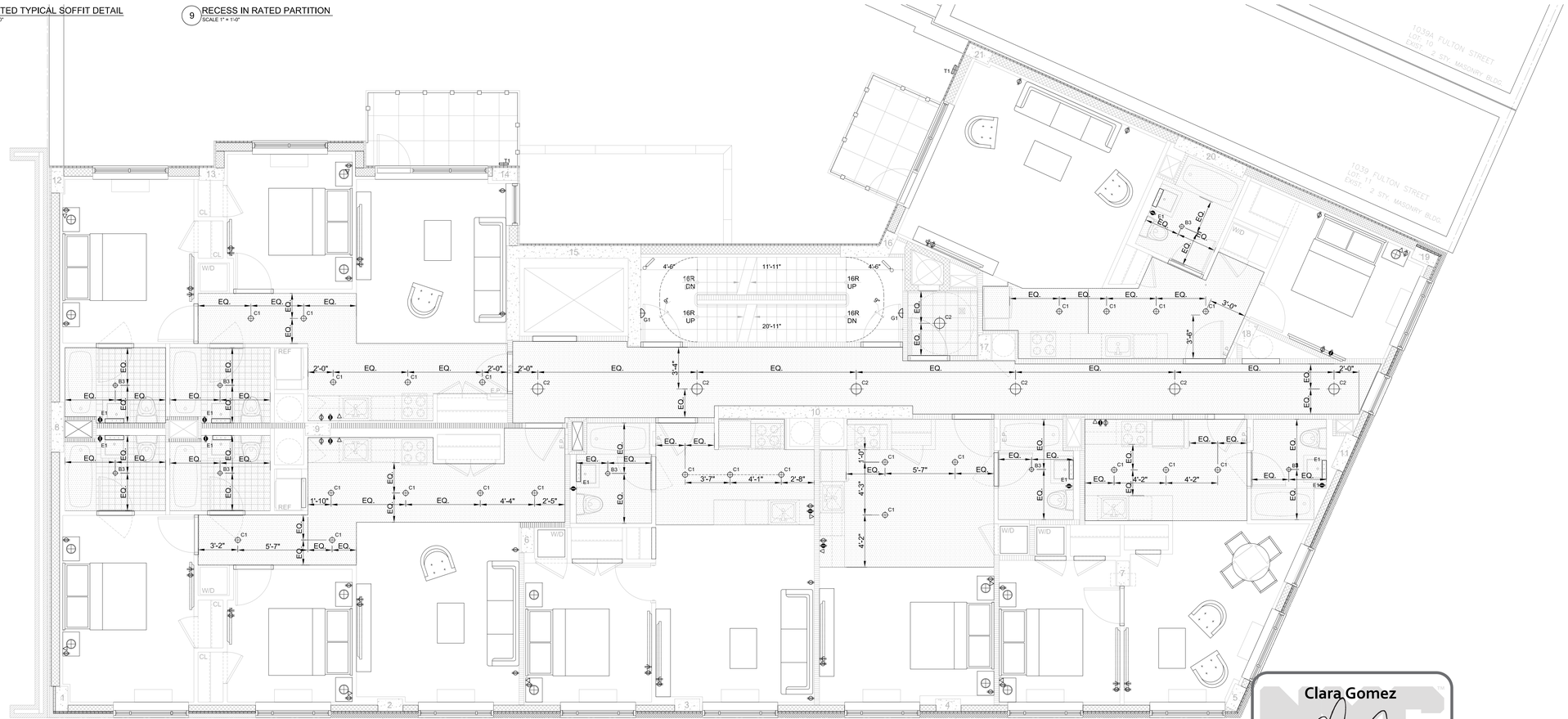
	OUTLET
	GFI OUTLET (KITCHEN, BATHROOM AND EXTERIOR)
	CABLES OUTLET
	TELEPHONE
	8'-0" CEILING HEIGHT ABOVE F.F.
	JUNCTION BOX

INTERIOR FIXTURE DESCRIPTIONS

	FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
A1	A1	3-3/4" APERTURE, LOW AND LINE VOLTAGE, AJUSTABLE PREMIUM DIE-CAST STEP BAFFLE	LIGHTOLIER # 305WHWX 4-1/2" H. WHITE STEP BAFFLE AND SELF-FLANGE	50W ES/ESD16	120V 50W	0	0
B3	B3	3-3/4" APERTURE, LOW AND LINE VOLTAGE, SHOWER LIGHT (WET LOCATION)	LIGHTOLIER # 376WHX 4-5/8" H. WHITE FROSTED GLASS AND WHITE FLANGE	50W MR16	120V/12V 50W	8	400
C1	C1	6" APERTURE, RECESSED COMPACT FLUORESCENT DOWN-LIGHT	LIGHTOLIER # 603CCDW TRIM # S613ZBU HOUSING	26W TRIPLE TUBE COMPACT FLUORESCENT 3000K, 82CRI O/C #CF26DT/E/830	120V 26W MAX	24	624
C2	C2	11" LUMIDISC WHITE CEILING MOUNTED FLUORESCENT. INJECTION MOLDED ACRYLIC DIFFUSER.	LIGHTOLIER 6750WH213U	(2) 13W Quad Tube 4-Pin General Electric F13DBX/SPX 4IP	120V 13W	7	91
E1	E1	SHATTER - RESISTANT, DECORATIVE SCONCE/MIRROR LIGHT	LIGHTOLIER. HELIOS # 5412PC TWO-LAMP POL. CHROME. 24 1/2" W. BATHROOMS # 5410PC ONE LAMP POL CHROME. 13 3/4" W.	18W/39W COMPACT FLUORESCENT 3000K, 82CRI O/S # FT18W/2G11/830	120V 18W/39W	0	0
F1	F1	ONE LAMP T8 FLUORESCENT CHANNEL	MERCURY 3'-#MM-125-OCT-C-ELB-120 4'-#MM-132-OCT-C-ELB-120	25W/32W T8 82CRI 3500K O/S # FO25/835 O/S # FO32/835	120V 50W 64W	0	0
G1	G1	16" SQ. WALL MOUNTED FLUORESCENT	LIGHTOLIER # 10351WH	2 OF 27W TWIN TUBE 4-PINE COMPACT FLUORESCENT, 2700K, 82CRI	120V 54W	2	108
						TOTAL WATTS	1223

EXTERIOR FIXTURE DESCRIPTIONS

	FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
T1	T1	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH OPAL GLASS DIFFUSER AND BLACK DIE-CAST ALUMINUM BRACKET ARM.	BEGA LIGHTING # 6531P BLACK	13W COMPACT FLUORESCENT 3000K, 82CRI O/S # CF13DD/E/830	120V 26W	2	52
T2	T2	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH CRYSTAL GLASS DIFFUSER AND DIE-CAST ALUMINUM FRAME.	BEGA LIGHTING # 2632P-BL BLACK # 2632P-WH WHITE	(2) 26W QUAD 4-PIN 3000K, 82CRI O/S# CF26DD/E/830	120V 52W	0	0
						TOTAL WATTS	52



THIRD TO SIXTH FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com Issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	3RD-6TH FLOOR RCP & SCHEDULE RCP DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A303.00

REGISTERED ARCHITECT ANTHONY ISSAC NO. 018258 STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number
ES223807311 Scan Code

LEGEND

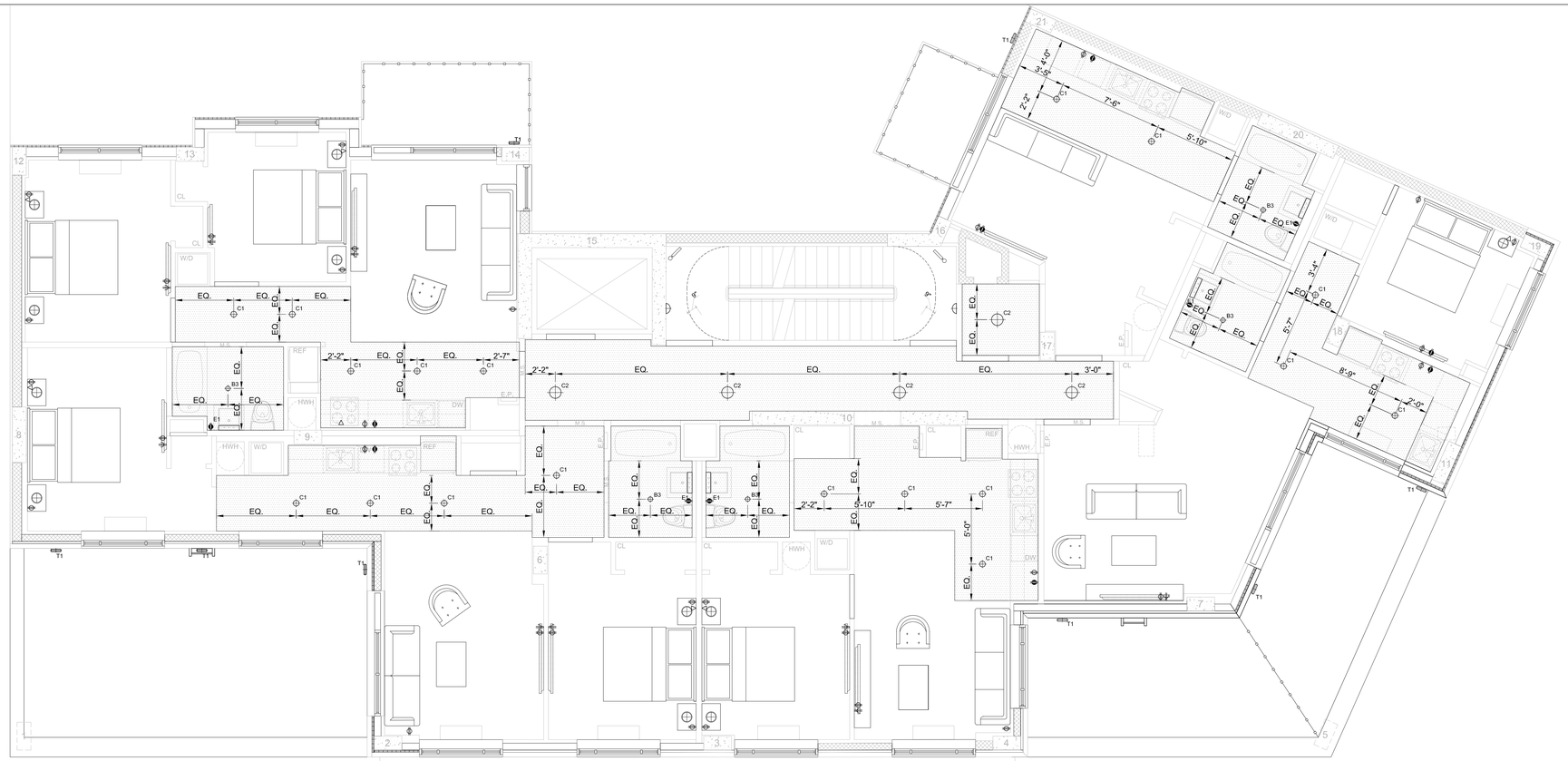
	OUTLET
	GFI OUTLET (KITCHEN, BATHROOM AND EXTERIOR)
	CABLES OUTLET
	TELEPHONE
	8'-0" CEILING HEIGHT ABOVE F.F.
	JUNCTION BOX

INTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
A1	3-3/4" APERTURE, LOW AND LINE VOLTAGE, AJUSTABLE PREMIUM DIE-CAST STEP BAFFLE	LIGHTOLIER # 305WHWX 4-1/2" H WHITE STEP BAFFLE AND SELF-FLANGE	50W ES/ESD16	120V 50W	0	0
B3	3-3/4" APERTURE, LOW AND LINE VOLTAGE, SHOWER LIGHT (WET LOCATION)	LIGHTOLIER # 376WHX 4-5/8" H WHITE FROSTED GLASS AND WHITE FLANGE	50W MR16	120V/12V 50W	5	250
C1	6" APERTURE, RECESSED COMPACT FLUORESCENT DOWN-LIGHT	LIGHTOLIER # 8031CCDW TRIM # S6132BU HOUSING	26W TRIPLE TUBE COMPACT FLUORESCENT 3000K, 82CRI O/C #CF26DT/E/830	120V 26W MAX	18	468
C2	11" LUMIDISC WHITE CEILING MOUNTED FLUORESCENT. INJECTION MOLDED ACRYLIC DIFFUSER.	LIGHTOLIER 6750WH213U	(2) 13W Quad Tube 4-Pin General Electric F13DBX/SPX /4P	120V 13W	5	65
E1	SHATTER - RESISTANT, DECORATIVE SCONCE/MIRROR LIGHT	LIGHTOLIER, HELIOS # 5412PC TWO-LAMP POL. CHROME, 24 1/2" W. BATHROOMS # 5410PC ONE LAMP POL CHROME, 13 3/4" W.	18W/39W COMPACT FLUORESCENT 3000K, 82CRI O/S # FT18W/2G11/830	120V 18W/39W	0	0
F1	ONE LAMP T8 FLUORESCENT CHANNEL	MERCURY 3'-#MM-125-OCT-C-ELB-120 4'-#MM-132-OCT-C-ELB-120	25W/32W T8 82CRI 3500K O/S # FO25/835 O/S # FO32/835	120V 50W 64W	0	0
G1	16" SQ. WALL MOUNTED FLUORESCENT	LIGHTOLIER # 10351WH	2 OF 27W TWIN TUBE 4-PINE COMPACT FLUORESCENT, 2700K, 82CRI	120V 54W	2	108
					TOTAL WATTS	891

EXTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
T1	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH OPAL GLASS DIFFUSER AND BLACK DIE-CAST ALUMINUM BRACKET ARM.	BEGA LIGHTING # 6531P BLACK	13W COMPACT FLUORESCENT 3000K, 82CRI O/S # CF13DD/E/830	120V 26W	8	208
T2	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH CRYSTAL GLASS DIFFUSER AND DIE-CAST ALUMINUM FRAME.	BEGA LIGHTING # 2632P-BL BLACK # 2632P-WH WHITE	(2) 26W QUAD 4-PIN 3000K, 82CRI O/S# CF26DD/E/830	120V 52W	0	0
					TOTAL WATTS	208



SEVENTH FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND

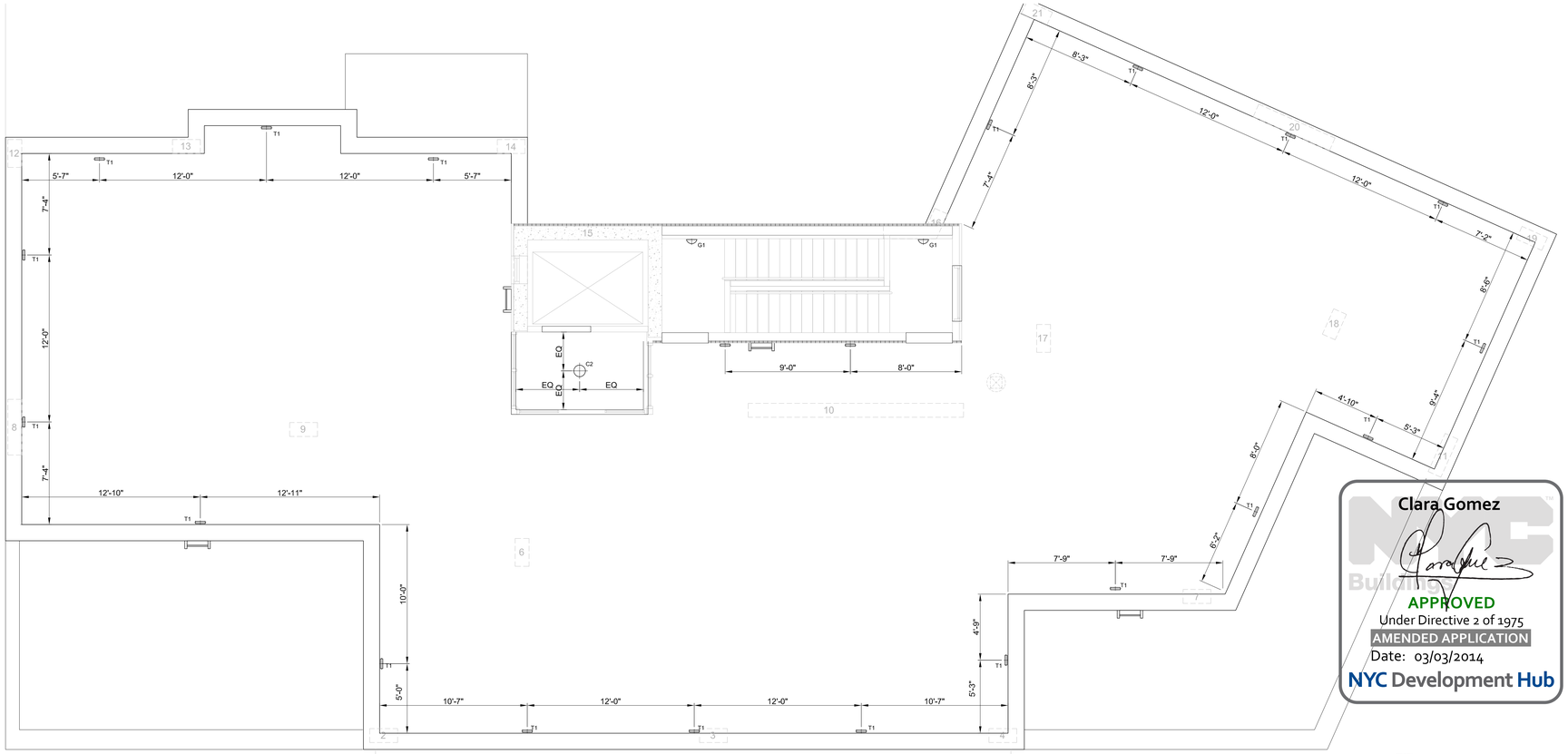
	OUTLET
	GFI OUTLET (KITCHEN, BATHROOM AND EXTERIOR)
	CABLES OUTLET
	TELEPHONE
	8'-0" CEILING HEIGHT ABOVE F.F.
	JUNCTION BOX

INTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
A1	3-3/4" APERTURE, LOW AND LINE VOLTAGE, AJUSTABLE PREMIUM DIE-CAST STEP BAFFLE	LIGHTOLIER # 305WHWX 4-1/2" H WHITE STEP BAFFLE AND SELF-FLANGE	50W ES/ESD16	120V 50W	0	0
B3	3-3/4" APERTURE, LOW AND LINE VOLTAGE, SHOWER LIGHT (WET LOCATION)	LIGHTOLIER # 376WHX 4-5/8" H WHITE FROSTED GLASS AND WHITE FLANGE	50W MR16	120V/12V 50W	0	0
C1	6" APERTURE, RECESSED COMPACT FLUORESCENT DOWN-LIGHT	LIGHTOLIER # 8031CCDW TRIM # S6132BU HOUSING	26W TRIPLE TUBE COMPACT FLUORESCENT 3000K, 82CRI O/C #CF26DT/E/830	120V 26W MAX	0	0
C2	11" LUMIDISC WHITE CEILING MOUNTED FLUORESCENT. INJECTION MOLDED ACRYLIC DIFFUSER.	LIGHTOLIER 6750WH213U	(2) 13W Quad Tube 4-Pin General Electric F13DBX/SPX /4P	120V 13W	1	13
E1	SHATTER - RESISTANT, DECORATIVE SCONCE/MIRROR LIGHT	LIGHTOLIER, HELIOS # 5412PC TWO-LAMP POL. CHROME, 24 1/2" W. BATHROOMS # 5410PC ONE LAMP POL CHROME, 13 3/4" W.	18W/39W COMPACT FLUORESCENT 3000K, 82CRI O/S # FT18W/2G11/830	120V 18W/39W	0	0
F1	ONE LAMP T8 FLUORESCENT CHANNEL	MERCURY 3'-#MM-125-OCT-C-ELB-120 4'-#MM-132-OCT-C-ELB-120	25W/32W T8 82CRI 3500K O/S # FO25/835 O/S # FO32/835	120V 50W 64W	0	0
G1	16" SQ. WALL MOUNTED FLUORESCENT	LIGHTOLIER # 10351WH	2 OF 27W TWIN TUBE 4-PINE COMPACT FLUORESCENT, 2700K, 82CRI	120V 54W	2	108
					TOTAL WATTS	121

EXTERIOR FIXTURE DESCRIPTIONS

FIXT TYPE	DESCRIPTION MOUNTING	MANUFACTURER / MNFR. CATALOG #	LAMP TYPE / MNFR. CAT. #	VOLT. W/FIXT.	TOTAL FIXT.	TOTAL WATT.
T1	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH OPAL GLASS DIFFUSER AND BLACK DIE-CAST ALUMINUM BRACKET ARM.	BEGA LIGHTING # 6531P BLACK	13W COMPACT FLUORESCENT 3000K, 82CRI O/S # CF13DD/E/830	120V 26W	22	572
T2	EXTERIOR GRADE, WALL MOUNTED COMPACT FLUORESCENT, WITH CRYSTAL GLASS DIFFUSER AND DIE-CAST ALUMINUM FRAME.	BEGA LIGHTING # 2632P-BL BLACK # 2632P-WH WHITE	(2) 26W QUAD 4-PIN 3000K, 82CRI O/S# CF26DD/E/830	120V 52W	0	0
					TOTAL WATTS	572



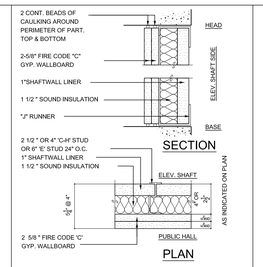
ROOF LIGHTING PLAN
SCALE: 1/4" = 1'-0"

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 232-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	7TH FLOOR AND BULKHEAD RCP & SCHEDULE SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ISAAC & STERN PC 018258 STATE OF NEW YORK	A304.00

PARTITION TYPES



TYPE 1 (2HR)

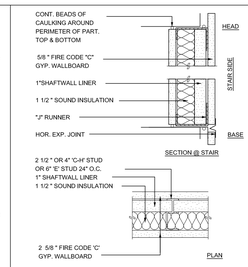
BSA CAL # 542-68-SM

MASONRY EQUIVALENT AND IMPACT RESISTANT NOTES:

THE FOLLOWING SHALL APPLY TO PARTITION TYPES USED AT STAIR AND ELEVATOR ENCLOSURE LOCATIONS:

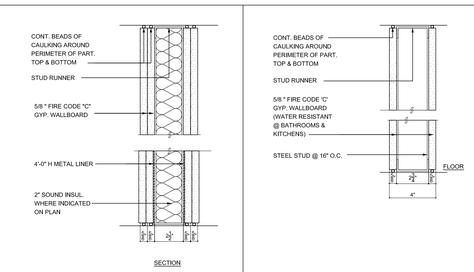
1. ALL ASSEMBLIES ARE TO COMPLY WITH THE NYC TITLE 1 DEPT. OF BUILDINGS § MASONRY EQUIVQLENT EXIT ENCLOSURES AND § 403-01 IMPACT RESISTANT STAIR AND ELEVATOR SHAFT ENCLOSURES.
2. MATERIALS: G.W.B. SHALL BE IMPACT RESISTANT TYPE, ASTM C 1629-06 STANDARD CLASSIFICATION FOR ABUSE- RESISTANT NON DECORATED INTERIOR GYPSUM PANEL PRODUCTS AND FIBER-REINFORCED CEMENT PANELS, HARD BODY IMPACT CLASSIFICATIN LEVEL 2, AND BOTH BASE AND FINISH LAYERS SHALL BE MIN. 5/8" G.W.B.
3. ASSEMBLY: 2 HR. FIRE RATED MIN.
4. INSTALLATION:
   a. MIN. 3 1/2" STUDS -20 GA. SPACED @24" O.C. MAX.
   b. RUNNER SHALL BE SECURED TO FLOOR AND CEILING STRUCTURE AND SHALL COMPLY w/STRUCTURAL REQUIREMENTS OF THE BUILDING CODE.
   c. ATTACH G.W.B. WITH MIN. NO.8 SELF DRILLING BUGLE-HEAD SCREWS, 12" O.C. MAX. w/A MIN. DEPTH OF 5/8" PENETRATION INTO THE WALL CAVITY.
   d. WALL PANEL JOINTS SHALL BE STAGGERED FROM BASE LAYER WITH FACE PANEL LAYER.

MAS. EQUIVELANT NOTES



TYPE 2 (2HR)

BSA CAL # 542-68-SM



TYPE 3 (2HR)

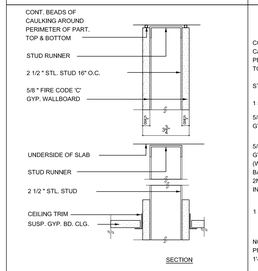
BSA CAL # 301-60-SM

TYPE 4 (1HR)

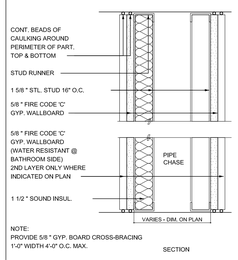
BSA CAL # 301-60-SM

PARTITION NOTES

1. ERECT TYPE "4" PARTITIONS, UNLESS OTHERWISE NOTED. REFER TO TYPICAL PARTITION DETAILS FOR TYPICAL BRACING AT NEW PARTITIONS AND FOR PARTITIONS HEAD AND BASE CONDITIONS.
2. LIMITED HEIGHTS OF PARTITIONS AS NOTED BELOW PROVIDE GENERAL GUIDELINES BASED ON INDUSTRY STANDARDS. REFER TO MANUFACTURER'S DATA TO CONFORM THAT STUD SIZE AND GAUGE MEET THE REQUIREMENTS OF THE ARCHITECTURAL SPECIFICATIONS.
   A. DRYWALL SHAFT SYSTEMS AT ELEVATORS TO WITHSTAND A LATERAL LOADING OF 10LBS. PER SQ. FT. WITH DEFLECTION LIMITED TO L/240 OF THE PARTITION HEIGHTS.
   B. STANDARD DRYWALL ASSEMBLIES TO WITHSTAND A LATERAL LOADING OF 5LBS. PER SQ. FT. WITH DEFLECTION LIMITED TO L/240 OF THE PARTITION HEIGHT.
   C. DRYWALL ASSEMBLIES AT TILE FINISH TO HAVE A DEFLECTION LIMIT OF L/360.
3. PROVIDE WATER & MOLD RESISTANT GYPSUM WALL BOARD AT ALL WET LOCATIONS SUCH AS BUT NOT LIMITED TO EXTERIOR STORAGE CLOSETS, LOCKER ROOMS, BATHROOMS, TOILET ROOMS, POWDER ROOMS, AND JANITOR CLOSETS.
4. PROVIDE CEMENTITIOUS BACKER IN LIEU OF GWB AT TUB AND SHOWER SURROUNDS.
5. ALL 5/8" TYPE "X" SHEET ROCK IS BASED ON USG FIRECODE "X" MEETING THE REQUIREMENTS OF ASTM C1396, EQUIVALENT FIRE RATED SHEET ROCK FOR OTHER SPECIFIED MANUFACTURERS, AS LISTED IN SPECIFICATIONS, ARE ACCEPTABLE.
6. WHERE FIRE RATED PARTITIONS MEET OR PASS BY NON-RATED PARTITIONS THE RATED ASSEMBLY MUST BE CONTINUOUSLY MAINTAINED.
7. PARTITION FRAMING & FURRING MEMBERS: ASTM C 645; 20 GAUGE (MIN.) THICKNESS OF BASE METAL.
8. STUDS TO BE 12" O/C AT KITCHEN CABINETS AND ELECTRICAL PANELS.
9. BOTTOM TRACK OF ALL PARTITIONS TO MATCH GAUGE OF STUD. SECURE TO SLAB.
10. PROVIDE METAL BACKING AND BRACING BEHIND GWB FOR ALL RAILING, WALL-MOUNTED CASEWORK INSTALLATION, FUTURE HANDICAPPED BARS IN ALL BATHROOMS & AND EQUIPMENT SUPPORTED ON DRYWALL PARTITIONS.
11. ELECTRICAL AND SERVICE OUTLETS FOR ADJACENT ROOMS ARE TO BE POSITIONED MINIMUM 24 INCHES APART AND IN SEPARATE STUD SPACES.
12. PROVIDE CONTINUOUS ACOUSTICAL (NON-HARDENING) CAULKING BEADS ON EACH SIDE OF THE BOTTOM STUD RUNNER AT THE THREE-WAY INTERSECTION BETWEEN THE RUNNER, FLOOR AND DRYWALL.
13. IN ALL ACOUSTICAL PARTITIONS, PROVIDE ACOUSTICAL CAULKING TO CLOSE GAPS BETWEEN ALL SERVICE OUTLETS (ELECTRICAL, TELEPHONE, DATA, ETC.), ANY PENETRATIONS AND DRYWALLS.
14. ALL PARTITIONS WHICH DENOTE STC RATINGS (STC) MUST BE CONSTRUCTED TO MEET SOUND TRANSMISSION CLASS RATINGS,
15. PROVIDE DEEP TOP LEG TRACK FOR DEFECTION PURPOSES.
16. WHERE PARTITIONS MEET EXTERIOR MULLIONS, INSTALL THE NEW PARTITION PERPENDICULAR TO THE EXTERIOR MULLIONS. ALIGN THE CENTERLINE OF THE PARTITIONS WITH THE MULLIONS.
17. PROVIDE A HORIZONTAL DIMENSION OF 1'-6" (MIN.) FROM THE STRIKE FACE OF THE DOOR JAMB TO THE NEAREST RETURNING PARTITION OR MILLWORK AT THE PULL SIDE OF THE DOOR.

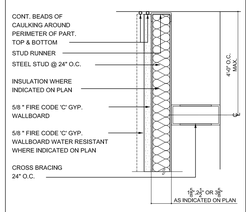


TYPE 5

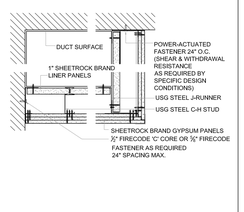


TYPE 6 (1HR & 2HR)

BSA CAL # 173-77-SM



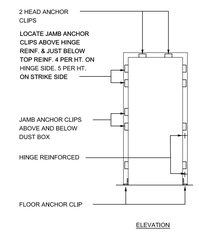
TYPE 7



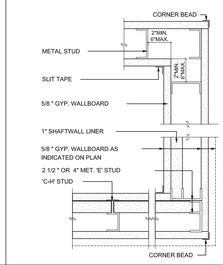
TYPE 8 (2HR)

DUCT ENCLOSURE

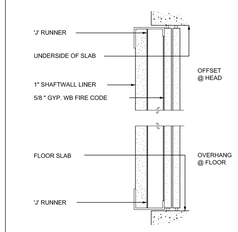
STANDARD DETAILS



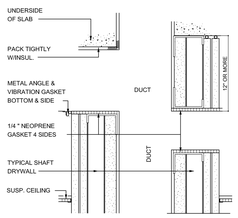
1 LOCATION OF DOOR BUCK ANCHORY



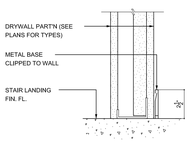
2 TYP. DRYWALL PARTITION @ CORNERS



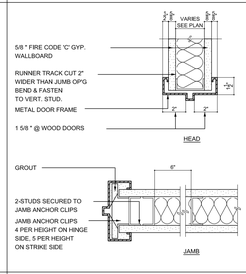
3 'J' RUNNER FASTENING DETAIL



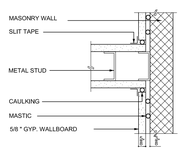
4 SECTION OF BRANCH DUCT. THRU SHAFT ENCLOSURE



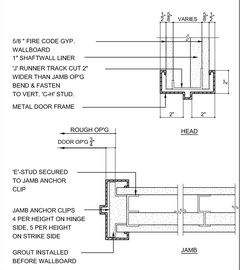
5 METAL BASE IN STAIRS



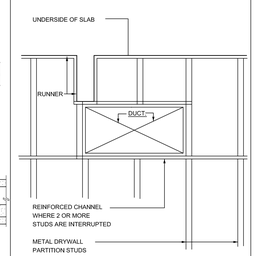
6 DOOR DETAILS @ 1 HOUR PARTITION



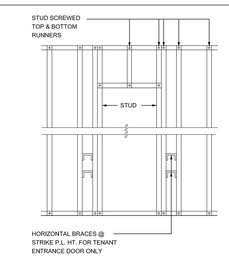
7 TYP. DRYWALL PARTITION @ MASONRY PARTITION



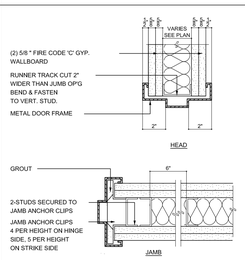
8 BUCK DETAILS & 2 HR. PARTITION



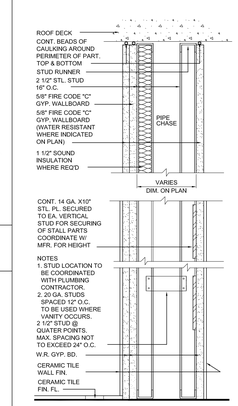
9 DUCT AND BEAM @ PARTITION



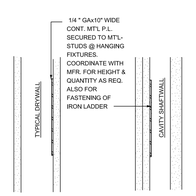
10 ELEVATION-ROUGH DOOR FRAMING



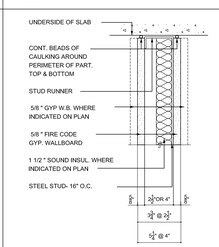
11 DOOR DETAILS @ 2 HOUR PARTITION



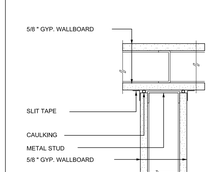
15 TYPICAL PIPE CHASE



12 HANGING FIXTURES @ DRYWALL PARTITION



13 1 HOUR PARTITION



14 DRY WALL PARTITION INTERSECTION

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York, NY 10001 212-268-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	PARTITION DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. 3. 4.	A400.00

REGISTERED ARCHITECT BRY ISSAC No. 018238 STATE OF NEW YORK

NAME: S:\ALLWORKS\1035 FULTON STREET\PRES\ARCHITECTURAL\A400-402.DWG DATE: NOV 27, 2013 TIME: 2:28 PM

FINISH SCHEDULE

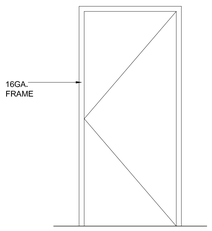
	ROOM	ROOM #	FLOOR 1 CONCRETE	2 MEMBRANE W.P.	3 HYDROLITHIC W.P.	4 REINFORCED CEMENT	5 DUST PROOF	6 CERAMIC TILE (NON SKID)	7 TERRAZZO	8 VINYL COMPOSITION TILE	9 GRANITE	10 WOOD	11 BROOM FINISH	12 STEEL TROWEL FINISH	13 CARPET	14 MARBLE	15 HARDWOOD FLOORING	16 PARQUET FLOORING
CELLAR	CORRIDOR	C01	1					6*										
CELLAR	STAIR A	C02	1*			4	5						11					
CELLAR	STAIR B	C03	1*			4	5						11					
CELLAR	TRASH COMP. ROOM	C04	1	2		4		6*										
CELLAR	CORRIDOR	C05	1					6*										
CELLAR	CORRIDOR	C06	1					6*										
CELLAR	BLDG STORAGE	C07	1				5											
CELLAR	WATER/SEWER RM	C08	1	2		4												
CELLAR	GAS METER RM	C09	1	2		4												
CELLAR	ELECTRIC RM	C10	1	2	3	4												
CELLAR	BLDG RECREATION	C11	1					6*										
CELLAR	ACCESSORY TO RETAIL	C12	1					6*										
CELLAR	ACCESSORY TO RETAIL	C13	1					6*										
CELLAR	STAIR C	C14	1*			4	5						11					
CELLAR	STAIR D	C15	1*			4	5						11					
1ST FLOOR	STAIR B	101	1*			4	5						11					
1ST FLOOR	STAIR A	102	1*			4	5						11					
1ST FLOOR	STAIR B	103	1*			4	5						11					
1ST FLOOR	ELEV. LOBBY	104	1					6*										
1ST FLOOR	RESIDENTIAL LOBBY	105	1					6*										
1ST FLOOR	BIKE STORAGE	106	1	2		4		6*										
1ST FLOOR	KITCHEN	107	1	2		4						10					15*	
1ST FLOOR	BATH	108	1	2		4		6										
1ST FLOOR	LIVING ROOM	109	1									10					15*	
1ST FLOOR	STAIR A	110	1*			4	5						11					
1ST FLOOR	VESTIBULE	111	1					6*										
1ST FLOOR	RETAIL	112	1					6*										
1ST FLOOR	STAIR D	113	1*			4	5						11					
1ST FLOOR		114																
2ND THRU 6TH FLOOR	CORRIDOR	201-601	1					6*										
2ND THRU 6TH FLOOR	STAIR A	202-602	1*			4	5						11					
2ND THRU 6TH FLOOR	STAIR B	203-603	1*			4	5						11					
2ND THRU 6TH FLOOR	REFUSE RM / T.C.	204-604	1	2		4		6										
2ND THRU 6TH FLOOR	KITCHEN	205-605	1	2		4						10					15*	
2ND THRU 6TH FLOOR	LIVING ROOM	206-606	1									10					15*	
2ND THRU 6TH FLOOR	BATH	207-607	1	2		4		6										
2ND THRU 6TH FLOOR	BEDROOM	208-608	1									10					15*	
2ND THRU 6TH FLOOR	BEDROOM	209-609	1									10					15*	
2ND THRU 6TH FLOOR	BATH	210-610	1	2		4		6										
2ND THRU 6TH FLOOR	KITCHEN	211-611	1	2		4						10					15*	
2ND THRU 6TH FLOOR	LIVING ROOM	212-612	1									10					15*	
2ND THRU 6TH FLOOR	BATH	213-613	1	2		4		6										
2ND THRU 6TH FLOOR	BEDROOM	214-614	1									10					15*	
2ND THRU 6TH FLOOR	BEDROOM	215-615	1									10					15*	
2ND THRU 6TH FLOOR	BATH	216-616	1	2		4		6										
2ND THRU 6TH FLOOR	KITCHEN	217-617	1	2		4						10					15*	
2ND THRU 6TH FLOOR	LIVING ROOM	218-618	1									10					15*	
2ND THRU 6TH FLOOR	BATH	219-619	1	2		4		6										
2ND THRU 6TH FLOOR	BEDROOM	220-620	1									10					15*	
2ND THRU 6TH FLOOR	KITCHEN	221-621	1	2		4						10					15*	
2ND THRU 6TH FLOOR	LIVING ROOM	222-622	1									10					15*	
2ND THRU 6TH FLOOR	BATH	223-623	1	2		4		6										
2ND THRU 6TH FLOOR	KITCHEN	224-624	1	2		4						10					15*	
2ND THRU 6TH FLOOR	LIVING ROOM	225-625	1									10					15*	
2ND THRU 6TH FLOOR	BATH	226-626	1	2		4		6										
2ND THRU 6TH FLOOR	BEDROOM	227-627	1									10					15*	
2ND THRU 6TH FLOOR	KITCHEN	228-628	1	2		4						10					15*	
2ND THRU 6TH FLOOR	LIVING ROOM	229-629	1									10					15*	
2ND THRU 6TH FLOOR	BATH	230-630	1	2		4		6										
2ND THRU 6TH FLOOR	BEDROOM	231-631	1									10					15*	
7TH FLOOR	CORRIDOR	701	1					6*										
7TH FLOOR	STAIR A	702	1*			4	5						11					
7TH FLOOR	STAIR B	703	1*			4	5						11					
7TH FLOOR	REFUSE RM / T.C.	704	1	2		4		6										
7TH FLOOR	KITCHEN	705	1	2		4						10					15*	
7TH FLOOR	LIVING ROOM	706	1									10					15*	
7TH FLOOR	BATH	707	1	2		4		6										
7TH FLOOR	BEDROOM	708	1									10					15*	
7TH FLOOR	BEDROOM	709	1									10					15*	
7TH FLOOR	KITCHEN	710	1	2		4						10					15*	
7TH FLOOR	LIVING ROOM	711	1									10					15*	
7TH FLOOR	BEDROOM	712	1									10					15*	
7TH FLOOR	BATH	713	1	2		4		6										
7TH FLOOR	BATH	714	1	2		4		6										
7TH FLOOR	KITCHEN	715	1	2		4						10					15*	
7TH FLOOR	BATH	716	1	2		4		6										
7TH FLOOR	LIVING ROOM	717	1									10					15*	
7TH FLOOR	BEDROOM	718	1									10					15*	
7TH FLOOR	BEDROOM	719	1									10					15*	
7TH FLOOR	KITCHEN	720	1	2		4						10					15*	
7TH FLOOR	LIVING ROOM	721	1									10					15*	
7TH FLOOR	BATH	722	1	2		4		6										
7TH FLOOR	BEDROOM	723	1									10					15*	
7TH FLOOR	KITCHEN	724	1	2		4						10					15*	
7TH FLOOR	LIVING ROOM	725	1									10					15*	
7TH FLOOR	BATH	726	1	2		4		6										
ROOF	STAIR A	R01	1*			4	5						11					
ROOF	STAIR B	R02	1*			4	5						11					
ROOF	ELEV. LOBBY	R03	1					6*										
ROOF	ELEVATOR MACHINE RM	R04	1	2			5							12				

	ROOM	ROOM #	BASE 17 VINYL	18 CERAMIC TILE	19 CEMENT	20 PAINTED	21 METAL	22 GRANITE	23 WOOD	24 CONCRETE CURB	25 MARBLE	26 WOOD	27 CONCRETE	WALL 28 MASONRY	29 PAINTED	30 FACE BRICK	31 DRYWALL PARTITION	32 HYDROLITHIC W.P.	33 GYPSUM BOARD	34 CERAMIC TILE	35 VINYL COVERING	36 MARBLE	37 GRANITE	38 GLAZED BLOCK	39 PLASTER	40 ALUMINUM & GLASS	41 MIRROR	42 WOOD VENEER PANELS	43 SATIN FIN. BRASS	44 WOOD LAMINATED COUNTER	45 .	46
CELLAR	CORRIDOR	C01		18											29	30		32		34												
CELLAR	STAIR A	C02				20	21							28	29	30		32		34												
CELLAR	STAIR B	C03				20	21							28	29	30		32		34												
CELLAR	TRASH COMP. ROOM	C04		18												30		32	33	34	35*											
CELLAR	CORRIDOR	C05		18												30		32		34												
CELLAR	CORRIDOR	C06		18												30		32		34												
CELLAR	BLDG STORAGE	C07					21							28	29	30																
CELLAR	WATER/SEWER RM	C08		18										28	29	30																
CELLAR	GAS METER RM	C09		18										28	29	30																
CELLAR	ELECTRIC RM	C10		18										28	29	30			33													
CELLAR	BLDG RECREATION	C11		18												30		32		34												
CELLAR	ACCESSORY TO RETAIL	C12		18											29	30															47	
CELLAR	ACCESSORY TO RETAIL	C13		18											29	30															47	
CELLAR	STAIR C	C14				20	21							28	29	30		32		34												
CELLAR	STAIR D	C15				20	21							28	29	30		32		34												
1ST FLOOR	STAIR B	101				20	21							28	29	30		32		34												
1ST FLOOR	STAIR A	102				20	21							28	29	30		32		34												
1ST FLOOR	STAIR B	103				20	21							28	29	30		32		34												
1ST FLOOR	ELEV. LOBBY	104		18												30		32		34						41						
1ST FLOOR	RESIDENTIAL LOBBY	105		18												30		32		34						41						
1ST FLOOR	BIKE STORAGE	106			19											30		32	33	34	35*											
1ST FLOOR	KITCHEN	107										26				30		32	33	34	35*									45		
1ST FLOOR	BATH	108		18												30		32	33	34	35*											
1ST FLOOR	LIVING ROOM	109										26				30		32		34												
1ST FLOOR	STAIR A	110				20	21							28	29	30		32		34												
1ST FLOOR	VESTIBULE	111		18												30		32		34						41						
1ST FLOOR	RETAIL	112		18											29	30															47	48
1ST FLOOR	STAIR D	113				20	21							28	29	30		32		34												
1ST FLOOR		114																														
2ND THRU 6TH FLOOR	CORRIDOR	201-601		18												30		32		34						41						
2ND THRU 6TH FLOOR	STAIR A	202-602				20	21							28	29	30		32		34												
2ND THRU 6TH FLOOR	STAIR B	203-603				20	21							28	29	30		32		34												
2ND THRU 6TH FLOOR	REFUSE RM / T.C.	204-604		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	KITCHEN	205-605										26				30		32	33	34	35									45		
2ND THRU 6TH FLOOR	LIVING ROOM	206-606										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	207-607		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	BEDROOM	208-608										26				30		32		34												
2ND THRU 6TH FLOOR	BEDROOM	209-609										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	210-610		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	KITCHEN	211-611										26				30		32	33	34	35									45		
2ND THRU 6TH FLOOR	LIVING ROOM	212-612										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	213-613		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	BEDROOM	214-614										26				30		32		34												
2ND THRU 6TH FLOOR	BEDROOM	215-615										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	216-616		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	KITCHEN	217-617										26				30		32	33	34	35									45		
2ND THRU 6TH FLOOR	LIVING ROOM	218-618										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	219-619		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	BEDROOM	220-620										26				30		32		34												
2ND THRU 6TH FLOOR	KITCHEN	221-621										26				30		32	33	34	35									45		
2ND THRU 6TH FLOOR	LIVING ROOM	222-622										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	223-623		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	KITCHEN	224-624										26				30		32	33	34	35									45		
2ND THRU 6TH FLOOR	LIVING ROOM	225-625										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	226-626		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	BEDROOM	227-627										26				30		32		34												
2ND THRU 6TH FLOOR	KITCHEN	228-628										26				30		32	33	34	35									45		
2ND THRU 6TH FLOOR	LIVING ROOM	229-629										26				30		32		34												
2ND THRU 6TH FLOOR	BATH	230-630		18												30		32	33	34	35*											
2ND THRU 6TH FLOOR	BEDROOM	231-631										26				30		32		34												
7TH FLOOR	CORRIDOR	701		18												30		32		34						41						
7TH FLOOR	STAIR A	702				20	21							28	29	30		32		34												
7TH FLOOR	STAIR B	703				20	21							28	29	30		32		34												
7TH FLOOR	REFUSE RM / T.C.	704		18												30		32	33	34	35*											
7TH FLOOR	KITCHEN	705										26				30		32	33	34	35									45		
7TH FLOOR	LIVING ROOM	706										26				30		32		34												
7TH FLOOR	BATH	707		18												30		32	33	34	35*											
7TH FLOOR	BEDROOM	708										26				30		32		34												
7TH FLOOR	BEDROOM	709										26				30		32		34												
7TH FLOOR	KITCHEN	710										26				30		32	33	34	35									45		
7TH FLOOR	LIVING ROOM	711										26				30		32		34												
7TH FLOOR	BEDROOM	712										26				30		32		34												
7TH FLOOR	BATH	713		18												30		32	33	34	35*											
7TH FLOOR	BATH	714		18												30		32	33	34	35*											
7TH FLOOR	KITCHEN	715										26				30		32	33	34	35									45		
7TH FLOOR	BATH	716		18												30		32	33	34	35*											
7TH FLOOR	LIVING ROOM	717										26				30		32		34												
7TH FLOOR	BEDROOM	718										26				30		32		34												
7TH FLOOR	BEDROOM	719										26				30		32		34												
7TH FLOOR	KITCHEN	720										26				30		32	33	34	35									45		
7TH FLOOR	LIVING ROOM	721										26				30		32		34												
7TH FLOOR	BATH	722		18												30		32	33	34	35*											
7TH FLOOR	BEDROOM	723										26				30		32		34												
7TH FLOOR	KITCHEN	724										26				30		32	33	34	35									45		
7TH FLOOR	LIVING ROOM	725										26				30		32		34												
7TH FLOOR	BATH	726		18												30		32	33	34	35*											
ROOF	STAIR A	R01				20	21							28	29	30		32		34												
ROOF	STAIR B	R02				20	21							28	29	30		32		34												
ROOF	ELEV. LOBBY	R03		18												30		32		34						41						
ROOF	ELEVATOR MACHINE RM	R04					21							28	29	30																

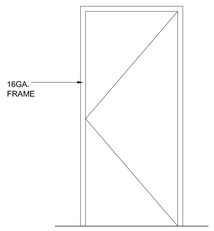
	ROOM	ROOM #	CEILING 47 CONCRETE	48 STEEL DECK	49 SPRAY ON F.P. UNDER DECK	50 SPRAY ON F.P. ON BEAM	51 DRYWALL AROUND BEAM	52 ACOUSTIC TILE	53 SATIN FIN. BRASS CLAD.	54 SUSPENDED DRYWALL	55 PAINTED	56 PLASTER	57 METAL CLAD. ACOUSTIC TILE	58 PLASTER ON M.L.F.	59 GRANITE	60 SAFETY GLASS MIRROR PANELS	61 WOOD VENEER PANELS	62 .	REMARKS
CELLAR	CORRIDOR	C01	47							54	55			58					*NON-SKID
CELLAR	STAIR A	C02					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
CELLAR	STAIR B	C03					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
CELLAR	TRASH COMP. ROOM	C04					51			54	55								
CELLAR	CORRIDOR	C05					51			54	55			58					*NON-SKID
CELLAR	CORRIDOR	C06					51			54	55			58					*NON-SKID
CELLAR	BLDG STORAGE	C07					51												
CELLAR	WATER/SEWER RM	C08					51												
CELLAR	GAS METER RM	C09					51												
CELLAR	ELECTRIC RM	C10					51												*1" METALLIC WATERPROOFING
CELLAR	BLDG RECREATION	C11					51			54	55			58					*NON-SKID
CELLAR	ACCESSORY TO RETAIL	C12	47				51	52											*NON-SKID
CELLAR	ACCESSORY TO RETAIL	C13	47				51	52											*NON-SKID
CELLAR	STAIR C	C14					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
CELLAR	STAIR D	C15					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
1ST FLOOR	STAIR B	101					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
1ST FLOOR	STAIR A	102					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
1ST FLOOR	STAIR B	103					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
1ST FLOOR	ELEV. LOBBY	104					51			54	55			58					*NON-SKID
1ST FLOOR	RESIDENTIAL LOBBY	105					51			54	55			58					*NON-SKID
1ST FLOOR	BIKE STORAGE	106					51			54	55								
1ST FLOOR	KITCHEN	107					51			54	55								*ACUSTICAL UNDERLAYMENT
1ST FLOOR	BATH	108					51			54	55								*NON-SKID
1ST FLOOR	LIVING ROOM	109					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
1ST FLOOR	STAIR A	110					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
1ST FLOOR	VESTIBULE	111					51			54	55			58					*NON-SKID
1ST FLOOR	RETAIL	112	47	48			51	52											*NON-SKID
1ST FLOOR	STAIR D	113					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
1ST FLOOR		114																	
2ND THRU 6TH FLOOR	CORRIDOR	201-601					51			54	55			58					*NON-SKID
2ND THRU 6TH FLOOR	STAIR A	202-602					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
2ND THRU 6TH FLOOR	STAIR B	203-603					51			54	55			58					*NON-SKID PAINTED CONCRETE THREAD
2ND THRU 6TH FLOOR	REFUSE RM / T.C.	204-604					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	KITCHEN	205-605					51			54	55								*ACUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	LIVING ROOM	206-606					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	207-607					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	BEDROOM	208-608					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BEDROOM	209-609					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	210-610					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	KITCHEN	211-611					51			54	55								*ACUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	LIVING ROOM	212-612					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	213-613					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	BEDROOM	214-614					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BEDROOM	215-615					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	216-616					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	KITCHEN	217-617					51			54	55								*ACUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	LIVING ROOM	218-618					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	219-619					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	BEDROOM	220-620					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	KITCHEN	221-621					51			54	55								*ACUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	LIVING ROOM	222-622					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	223-623					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	KITCHEN	224-624					51			54	55								*ACUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	LIVING ROOM	225-625					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FLOOR	BATH	226-626					51			54	55								*NON-SKID
2ND THRU 6TH FLOOR	BEDROOM	227-627					51			54	55			58					*ACOUSTICAL UNDERLAYMENT
2ND THRU 6TH FL

DOOR SCHEDULE

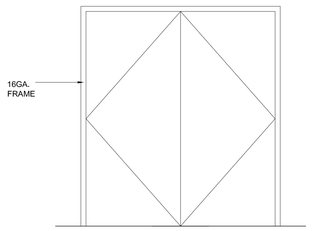
NO.	SIZE	TYP.	MATERIAL	F.R.	MEA NO.	SADDLE	FRAME	REMARKS
01	3'-0" x 7'-0" x 1 3/4"	A	16GA. HM.	1.5 HR.	117-86M	METAL	16GA. MTL	F.P.S.C. W/ PEEP HOLE & MTL. CHAIN.
02	2'-10" x 7'-0" x 1 3/4"	B	SOLID WOOD	NONE	NONE	***	16GA. MTL	*** WOOD VENEER OR PAINTED COORD. W/ OWNER *** MARBLE SADDLE AT BATHROOMS
03	(2) X 2'-0" x 7'-0" x 1 3/4"	C	SOLID WOOD	NONE	NONE	N/A	16GA. MTL	WOOD VENEER OR PAINTED COORD. W/ OWNER
04	(2) X 2'-6" x 7'-0" x 1 3/4"	C	SOLID WOOD	NONE	NONE	METAL	16GA. MTL	WOOD VENEER OR PAINTED COORD. W/ OWNER
05	2'-0" x 7'-0" x 1 3/4"	B	SOLID WOOD	NONE	NONE	NONE	16GA. MTL	WOOD VENEER OR PAINTED COORD. W/ OWNER
06	2'-6" x 7'-0" x 1 3/4"	B	SOLID WOOD	NONE	NONE	NONE	16GA. MTL	WOOD VENEER OR PAINTED COORD. W/ OWNER
07	2'-6" x 7'-0" x 1 3/4"	D	SOLID WOOD	NONE	NONE	NONE	16GA. MTL	WOOD VENEER OR PAINTED COORD. W/ OWNER
08	3'-0" x 7'-0" x 1 3/4"	E	18GA. HM.	1.5 HR.	117-86M	METAL	16GA. MTL	GLASS LIGHT 100 SQ.IN. MAX. OF 1/4" THICK WIRE GLASS
09	3'-0" x 7'-0" x 1 3/4"	A	18GA. HM.	1.5 HR.	117-86M	METAL	16GA. MTL	F.P.S.C
10	3'-0" x 7'-0" x 1 3/4"	A	18GA. HM.	1.5 HR.	117-86M	METAL	16GA. MTL	F.P.S.C
11	3'-0" x 7'-0" x 1 3/4"	E	18GA. HM.	1.5 HR.	117-86M	METAL	16GA. MTL	F.P.S.C
12	3'-0" x 7'-0" x 1 3/4"	F	ALUM. GLASS	NONE	NONE	METAL	16GA. MTL	MEDIUM, STYLE, ALUM. FRAME, GLASS DOOR
13	3'-0" x 7'-0" x 1 3/4"	E	18GA. HM.	1.5 HR.	117-86M	METAL	16GA. MTL	GLASS LIGHT 100 SQ.IN. MAX. OF 1/4" THICK WIRE GLASS



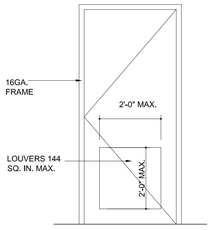
A SINGLE FLUSH H.M



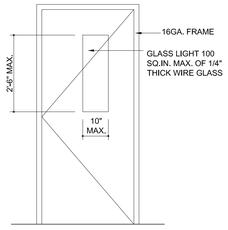
B SINGLE SOLID WOOD



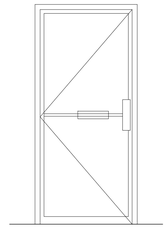
C DBL. SOLID WOOD



D SINGLE W/ LOUVER



E SINGLE W/ VISION PANEL



F SINGLE ALUM. GLASS

HARDWARE SETS

HW SET 1: UNIT ENTRY

3	Hinge (spring)	1522 4-1/2" x 4-1/2"	US26D	MK
1	Access Control Lockset	VCAF53 VMO 5196 VBC	626	YA
1	Concealed Overhead Stop	6-X36	630	RF
1	Threshold	as per architect detail		PE
3	Silencer	608		RO
2	Credentials- Long Lasting Keycard	8901925	YA	
1	Chime Interviewer	686-101 UL		AX
1	Door Guard	604	US26D	RO
1	Protection Plate	605SMS	US26D	RO

HW SET 2: BATHROOMS / BEDROOMS

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Tubular Lock	TCR5 RL202	626	YA
1	Door Stop	518	US26D	RO
3	Silencer	608		RO

HW SET 2.1: PUBLIC RESTROOM

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Mortise Lock	MOR5 8802FL	626	YA
1	Surface Closer	8501 M	689	NO
1	Door Stop	518	US26D	RO
1	Gasketing	S773BL		PE

HW SET 3: CLOSET PAIRS

6	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Cubular Dummy Trim	TCR5 RL255S	626	YA
2	Roller Latch	590	US26D	RO
2	Door Stop	518	US26D	RO
2	Silencer	608		RO

HW SET 4: CLOSET SINGLE

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Tubular Lock	TCR5 RL201	626	YA
1	Door Stop	518	US26D	RO
3	Silencer	608		RO

HW SET 4.1: GYM CLOSET

3	Hinge	TA2714 NRP 4-1/2" x 4-1/2"	US26D	MK
1	Mortise Lock	MOR5 8805FL 5196	626	YA
1	Concealed Overhead Stop	6-X36	630	RF
3	Silencer	608		RO

HW SET 5: EXTERIOR STAIR DOOR - ROOF

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	"Exit Device (rim, passage)"	7100F MO628F ECK1	630	YA
1	Door Closer	UNI7500 M	689	NO
1	Threshold	255x5AFG		PE
1	Gasketing	2891AS		PE
1	Door Bottom	434ARL		PE
1	Sweep	368CN		PE

HW SET 6: STORAGE / MECHANICAL

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Mortise Lock	MOR5 8805FL 5196	626	YA
1	Surface Closer	8501 M	689	NO
1	Wall Stop	403	US26D	RO
1	Gasketing	S773BL		PE

HW SET 7: STAIRS

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	"Exit Device (rim, passage)"	7100F MO628F ECK1	630	YA
1	Surface Closer	8501 M	689	NO
1	Wall Stop	403	US26D	RO
1	Threshold	as per architect detail		PE
3	Silencer	608		RO

HW SET 8: OFFICE / PACKAGE ROOM

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Mortise Lock	MOR5 8807FL 5196	626	YA
1	Surface Closer	8501 M	689	NO
1	Wall Stop	403	US26D	RO
1	Threshold	as per architect detail		PE
1	Gasketing	S773BL		PE

HW SET 9: PASSAGE

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Mortise Lock	MOR5 8801FL	626	YA
1	Concealed Overhead Stop	6-X36	630	RF
1	Door Closer	7500 M	689	NO
1	Drop Plate	7786OH	689	NO
1	Threshold	as per architect detail		PE
1	Gasketing	S773BL		PE

HW SET 10: ATTENDENT BOOTH / EXERCISE RM / GYM

1	Continuous Hinge	CFM83HD1		PE
1	Mortise Deadlock	MS1950	628	AD
2	Cylinder	5196	626	YA
1	Door Closer	UNIJ7500 M	689	NO
1	Wall Stop	403	US26D	RO
1	Threshold	as per architect detail		PE

HW SET 11: LAUNDRY

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Access Control Lockset	VCAF53 VMO 5196 VBC	626	YA
1	Surface Closer	8501 M	689	NO
1	Wall Stop	403	US26D	RO
1	Threshold	as per architect detail		PE
3	Silencer	608		RO

HW SET 12: REFUSE STORAGE

3	Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Mortise Lock	MOR5 8801FL	626	YA
1	Surface Closer	8501 M	689	NO
1	Wall Stop	403	US26D	RO
1	Threshold	as per architect detail		PE
1	Gasketing	S773BL		PE

HW SET 13: 1ST FL EXIT DOORS

1	Continuous Hinge	MCK-FM300 Security Studs	US32D	MK
1	Exit Device (rim,	7150F EO ECK1	630	YA
1	Door Closer	UNI7500 M	689	NO
1	Threshold	255x5AFG		PE
1	Gasketing	2891AS		PE
1	Door Bottom	434ARL		PE

HW SET 14: RETAIL STOREFRONT

2	Continuous Hinge	CFM83HD1		PE
2	Flush Bolt	555	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Mortise Deadlock	MS1950	628	AD
2	Cylinder	5196	626	YA
2	Door Closer	UNIJ7500 M	689	NO
1	Threshold	255x5AFG		PE
1	Gasketing	2891AS		PE
2	Sweep	368CN		PE
1	Astragal	S771BL		PE

HW SET 15: ROOF EXTERIOR

1	Continuous Hinge	MCK-FM300 Security Studs	US32D	MK
1	Exit Device (rim)	7150F MO626F 5196 ECK1	630	YA
1	Door Closer	UNI7500 M	689	NO
1	Threshold	255x5AFG		PE
1	Gasketing	2891AS		PE
1	Door Bottom	434ARL		PE

HW SET 16: MISC.

1	Vision Front Desk System	YA

PRODUCTS AND MANUFACTURERS

A. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS, UNLESS SPECIFICALLY INDICATED IN THE HARDWARE SETS. UNDERLINED MANUFACTURERS ARE THOSE WHOSE PRODUCTS ARE INDICATED IN THE HARDWARE SETS.

HINGES & SPRING HINGES: "BOMMER", MCKINNEY, STANLEY

LOCKSETS, CYLINDERS, & DEADLOCKS: "CORBIN RUSSWIN", YALE, SARGENT

EXIT DEVICES: "PRECISION", YALE, CORBIN RUSSWIN

MAGNETIC HOLD OPENS: "RIXSON"

CLOSERS: "NORTON", YALE, CORBIN RUSSWIN

STOPS : "ROCKWOOD", BBW, QUALITY

OVERHEAD STOPS: "RIXSON", YALE, SARGENT

SILENCERS: "ROCKWOOD", BBW, QUALITY

SADDLES, SWEEPS & GASKETING: "NATIONAL GUARD", ZERO, REESE

DOOR GUARDS: "ROCKWOOD", BBW, QUALITY

COAT HOOKS: "ROCKWOOD", BBW, QUALITY

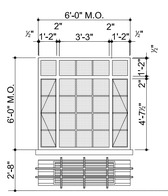
PROTECTION PLATES: "ROCKWOOD", BBW, QUALITY

CHIME/INTERVIEWERS: "AUTH"

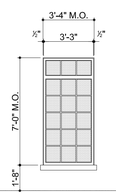
FINISHES

A. PROVIDE FINISH HARDWARE W/ THE FOLLOWING FINISHES UNLESS OTHERWISE SHOWN:

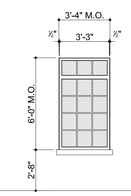
1. HINGES:
   A. INTERIOR DOORS:
      1. HOLLOW METAL DOORS X HOLLOW METAL FRAMES: US26D
      2. WOOD DOORS X HOLLOW METAL FRAMES: US26D
      3. WOOD DOORS X WOOD FRAMES: US26D
   B. EXTERIOR DOORS: US26D
2. PIVOTS: US26D
3. SURFACE CLOSERS: US26D
4. FLOOR CLOSERS: US26D
5. LOCKSETS AND EXIT DEVICES: US26D
6. STOPS: US26D
7. PUSHES, PULLS, KICK PLATES: US26D
8. FLUSH BOLTS: US26D



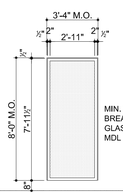
W1 SWING-FIXED-TILT AND TURN CASEMENT



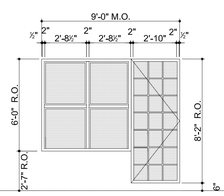
W2 DH-FIXED



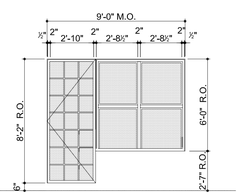
W3 DH-FIXED



D4 FIXED



D6 SWING - DH WINDOW



D7 SWING - DH WINDOW

GLASS AND GLAZING

INSULATING GLASS UNITS:

1. INSULATING GLASS: SHALL HAVE 1/4" OUTER LITE AND 1/4" INNER LITE OF CLEAR FLOAT GLASS, AND A 1/2" DRY AIR SPACE WITH -20EF DEW POINT, WITH CLASS "A" SEALANT-TYPE EDGE CONSTRUCTION TO MAINTAIN A HERMETIC SEAL, 1" THICK. THE GLASS UNIT SHALL HAVE A "LOW-E" COATING ON THE #3 SURFACE AND A SHADING COEFFICIENT COMPLYING WITH THE NEW YORK STATE ENERGY CODE; AND AN U-VALUE OF .35 OR LOWER (AS CONFIRMED BY THE MECHANICAL ENGINEER).

   A. THE TINT OF THE INSULATING GLASS UNIT SHALL BE SELECTED BY THE ARCHITECT.

2. TEMPERED INSULATING GLASS (AS REQUIRED BY THE NEW YORK CITY BUILDING CODE): PROVIDE 1 SHEET OF 1/4" TEMPERED GLASS AT OUTER LITE, 1/2" DRY AIR SPACE WITH -20 DEGREE F DEW POINT, AND AN INNER LITE OF 1/4" CLEAR TEMPERED GLASS, WITH CLASS "A" SEALANT-TYPE EDGE CONSTRUCTION TO MAINTAIN A HERMETIC SEAL, 1" THICK. THE GLASS UNIT SHALL HAVE A "LOW-E" COATING ON THE #3 SURFACE AND A SHADING COEFFICIENT COMPLYING WITH THE NEW YORK STATE ENERGY CODE; AND AN U-VALUE OF .35 OR LOWER (AS CONFIRMED BY THE MECHANICAL ENGINEER).

   A. THE TINT OF THE INSULATING GLASS UNIT SHALL BE SELECTED BY THE ARCHITECT.

3. EDGE CONSTRUCTION: TWIN PRIMARY SEALS OF POLYISOBUTYLENE: TUBULAR ALUMINUM OR GALVANIZED STEEL SPACER-BAR FRAME WITH WELDED OR SOLDERED SEALED CORNERS, AND FILLED WITH DESSICANT; AND SECONDARY SEAL OUTSIDE OF BAR, BONDED TO BOTH SHEETS OF GLASS AND BAR, OF SILICONE ELASTOMERIC SEALANT.

   A. THE COLOR OF THE SPACER MEMBER SHALL BE SELECTED BY THE ARCHITECT.

4. LABELING: ALL GLASS SHALL HAVE MANUFACTURER'S LABEL LISTING QUALITY, THICKNESS AND COMPLIANCE WITH STANDARDS. SPACERS SHALL BE MARKED WITH MANUFACTURER'S IGCC CBA RATING CERTIFICATION AND DATE OF MANUFACTURE.

GLAZING MATERIALS:

1. NEOPRENE SETTING BLOCKS: SHALL CONFORM TO ASTM D2000-68, TYPE 2BC510B14 (60%) C20F17K11P, SHORE "A" DUROMETER SHALL BE AS RECOMMENDED BY THE GLASS MANUFACTURER FOR THE INTENDED INSTALLATION.

   A. PROVIDE SILICONE RUBBER SETTING BLOCKS WHERE REQUIRED FOR COMPATABILITY.

2. SHIMS: SHALL BE SAME MATERIAL AS SPECIFIED FOR SETTING BLOCKS EXCEPT SHORE "A" DUROMETER HARDNESS SHALL BE 45±5.

3. GLAZING TAPES: PREFORMED PRE-SHIMMED COMPRESSIBLE TAPE SEALANT. TREMCO '440' BY TREMCO, 'EXTRU-SEAL' BY PECORA CORP. OR APPROVED EQUAL.

4. MARINE GLAZING GASKET SHAL BE SERRATED OR HAVE 1/4" DIAMETER HOLES EVERY +4" -6" ON CENTER.

5. ALL WINDOWS TO HAVE U FACTOR OF 0.37 AND SHGC VALUE OF 0.4

HARDWARE:

A. GENERAL: PROVIDE HARDWARE FABRICATED FROM ALUMINUM, STAINLESS STEEL, OR OTHER CORROSION-RESISTANT MATERIAL COMPATIBLE WITH ALUMINUM AND OF SUFFICIENT STRENGTH TO PERFORM THE FUNCTION FOR WHICH IT IS INTENDED.

ACCESSORIES:

A. GENERAL: PROVIDE THE MANUFACTURER'S STANDARD ACCESSORIES THAT COMPLY WITH INDICATED STANDARDS.

B. PROVIDE ALUMINUM WINDOW SILLS, HEAD RECEPTORS, AND SILL, STARTERS, MATCHING PROFILE INDICATED ON THE DRAWING AND WITH A MINIMUM .125 INCH THICKNESS AND REINFORCED ON THE CONCEALED SIDE AS REQUIRE TO MAINTAIN ITS PROFILE.

   1. THE FINISH AND COLOR OF THE SILL SHALL MATCH THE WINDOW FRAMES, UNLESS OTHERWISE SELECTED BY THE ARCHITECT.

C. PROVIDE ADJUSTABLE ANCHOR SILLS AT ALL WINDOWS WHERE REQUIRED.

HORIZONTAL SLIDING WINDOWS:

A. WINDOW GRADE AND CLASS: PROVIDE WINDOW UNITS THAT COMPLY WITH REQUIREMENTS OF AAMA GRADE AND PERFORMANCE CLASS HS-AW40 AND THESE SPECIFICATION, INCLUDING OPERATING FORCE AND DEGLAZING TEST REQUIREMENTS SPECIFIED IN AAMA 101.

   1. PROVIDE WINDOW UNITS WITH SASH THAT DO NOT REQUIRE REMOVAL FOR CLEANING AND CAN BE CLEANED FROM THE BUILDING INTERIOR.

B. HARDWARE: PROVIDE THE FOLLOWING OPERATING EQUIPMENT AND HARDWARE:

   1. SASH ROLLERS AND ASSEMBLIES: ADJUSTABLE STAINLESS STEEL LUBRICATED BALL-BEARING ROLLERS.

   2. SASH LOCK: SPRING-LOADED SNAP-TYPE LOCK AT JAMBS(1 PER SASH). PROVIDE ONE AT HEIGHT INDICATED ON THE DRAWINGS OR AS REQUIRED TO COMPLY WITH ADA REQUIREMENTS.

   3. CONCEALED LIMIT STOP - CHILD GUARD: PROVIDE, REMOVABLE FOR CLEANING, LIMIT STOP WHICH SHALL PREVENT THE SASH FROM OPENING MORE THAN 4 INCHES AND COMPLY WITH THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE AND APPROVED BY "CHILD FALL PREVENTION TASK FORCE" AND STAMPED WITH APPROVAL NUMBER.

FIXED WINDOWS:

A. WINDOW GRADE AND CLASS: COMPLY WITH REQUIREMENTS OF AAMA GRADE AND PERFORMANCE CLASS F-AW40.

   1. PROVIDE WINDOW UNITS WITH SASH THAT CAN BE CLEANED FROM THE BUILDING INTERIOR WITHOUT REMOVAL.

ALUMINUM TERRACE SWING DOORS:

A. ALUMINUM TERRACE DOORS AND FRAMES SHALL BE SWD-AW40 AND FABRICATED FROM EXTRUDED ALUMINUM NOT LESS THAN .125 INCH THICK. REINFORCE AS NECESSARY TO SUPPORT REQUIRED LOADS.

B. DOORS SHALL BE 1 3/4 INCH THICK AND SHALL BE FACTORY FINISH.

   1. FABRICATE DOORS TO FACILITATE REPLACEMENT OF GLASS OR PANELS, WITHOUT DISASSEMBLY OF DOOR. PROVIDE SNAP-ON EXTRUDED ALUMINUM GLAZING STOPS, WITH EXTERIOR STOP ANCHORED FOR NON-REMOVAL.

   2. ALL DOORS AND FRAMES SHALL BE THERMAL BROKEN.

   3. ALL DOORS SHALL HAVE 1" THICK TEMPERED INSULATED GLASS. THE EXTERIOR LIGHT SHALL BE TINTED TO MATCH THE WINDOWS.

C. HARDWARE: PROVIDE THE FOLLOWING OPERATING HARDWARE AND EQUIPMENT.

   1. BALL BEARING BUTTS: 5-KNUCKLES, 2-BEARINGS, STEEL BALL BEARING BUTTS SIZED TO COMPLY ANSI 156.1, GRADE 1. PROVIDE 3 BUTTS FOR DOORS.

   2. PATIO LOCKSET.

   3. DOOR STOP.

   4. WATER TIGHT SLIP-RESISTANT ALUMINUM THRESHOLD PROVIDE WEEPHOLES AND INTERNAL PASSAGES TO CONDUCT INFILTRATING WATER TO THE EXTERIOR.

   5. WEATHERSTRIPPING.

   6. DOOR CLOSER.

** NOTE **
ALL GLAZING TO HAVE THE FOLLOWING VALUES
U FACTOR: 0.37
S.H.G.C.: 0.40

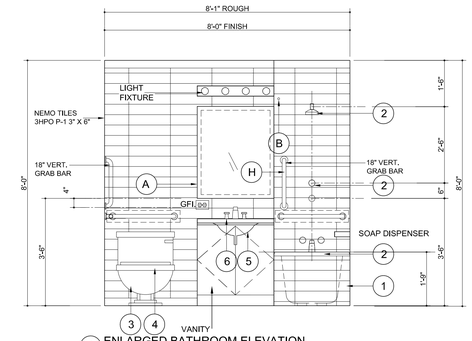
Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

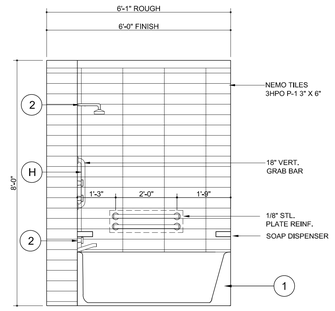
OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	DOOR AND WINDOW SCHEDULES SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT ALAN J. ISSAC NO. 018208 STATE OF NEW YORK	A-402.00

DEPT OF BLDGS 520991739 Job Number
E380071489J0 Scan Code

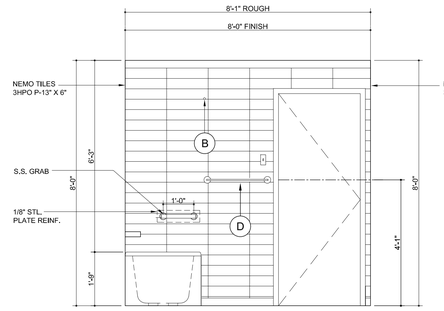
ENLARGED BATHROOM PLAN - FIG. R2B4
SCALE: 1/2"=1'-0"
FL. : 2ND
ROOMS 220 320 420 520
MIRROR 707



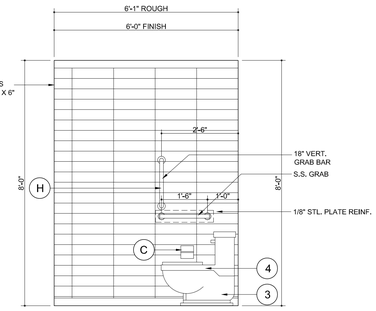
1 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



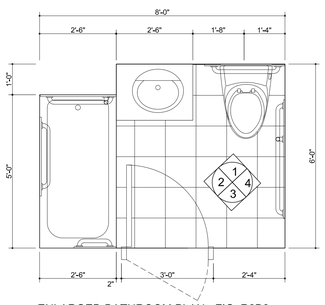
2 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



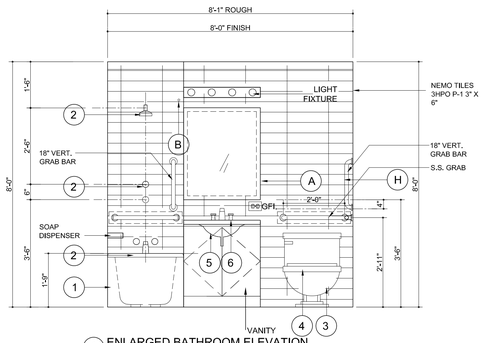
3 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



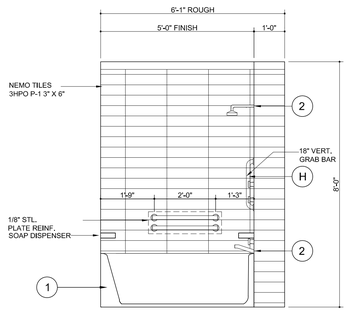
4 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



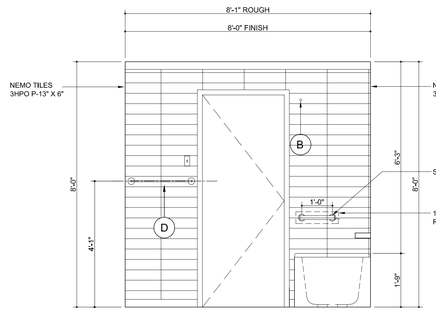
ENLARGED BATHROOM PLAN - FIG. R2B2
SCALE: 1/2"=1'-0"
FL. : 2ND, 3RD, 4TH, 5TH, 6TH, & 7TH
ROOMS 205 305 405 505 605



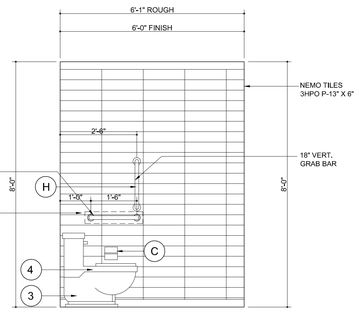
1 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



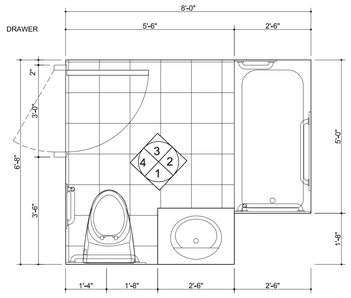
2 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



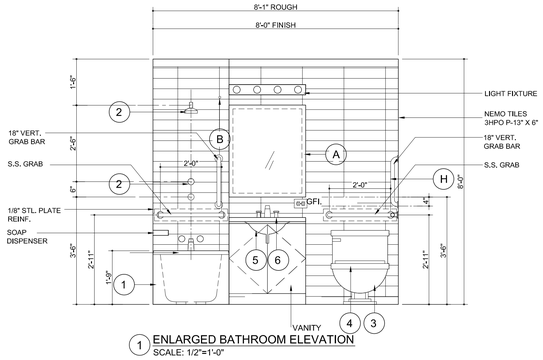
3 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



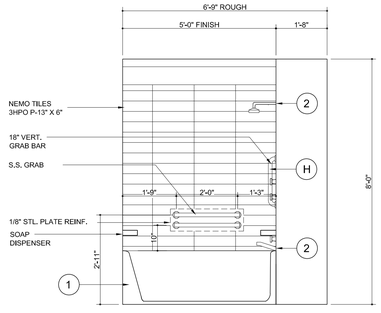
4 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



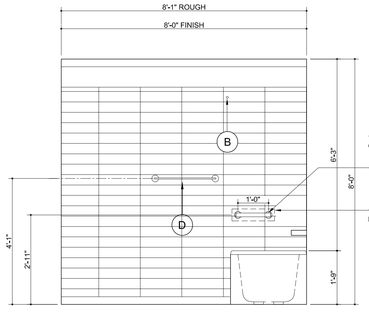
ENLARGED BATHROOM PLAN - FIG. R2B5
SCALE: 1/2"=1'-0"
FL. : 2ND
ROOMS 215 315 415 515
MIRROR 210 310 410 510 610 712



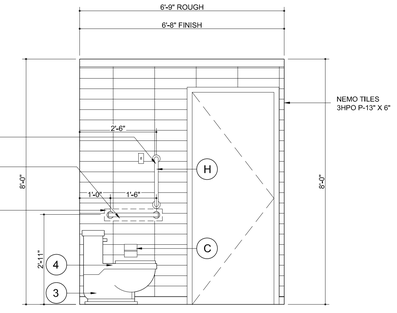
1 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



2 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



3 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"



4 ENLARGED BATHROOM ELEVATION
SCALE: 1/2"=1'-0"

PLUMBING FIXTURE SCHEDULE/DESIG. THUS ①

ITEM	DESCRIPTION	MANUFACTURE	MODEL NO.	REMARKS
①	BATH TUB	VERITEK SWANSTONE	SWANSTONE	5' BATH/LEFT WHITE
②	SHOWERHEAD/POL.	SPEAKMAN	S-2251	8 JET SHOWERHEAD/POL. CHROME
③	TOILET	GERBER	21-012	WHITE
④	LAUREL TOILET SEAT 16/10 STAINLESS STEEL SELF-RIMMING	AMERICAN STANDARD	0000	WHITE WITH ITEM /3 POLISH FIN. WITH ITEM /13
⑤	LAV W/ OVERFLOW	GERBER	12-770	WHITE
⑥	SINGLE CONTROL LAVATORY FAUCET	GERBER	ALLERTON	LEVER HANDLE FOR SINGLE HOLE INSTALLATION, NO ESCUTCHEON PLATE,POLISH FIN. FOR ITEM /12

TOILET ACCESSORIES SCHEDULE/ DESIGN. THUS ①

ITEM	DESCRIPTION	MANUFACTURE	MODEL NO.	REMARKS
Ⓐ	MEDICINE CABINET	ROBERN	PLM2430BB	24X30 BEV BLK CABINET
Ⓑ	SHOWER CURTAIN ROD	BOBRICK	B-6047	
Ⓒ	TOILET PAPER DISPENSER	KOHLER	K-14444	POLISHED CHROME
Ⓓ	24" TOWEL BAR	KOHLER	K-14436	POLISHED CHROME
Ⓔ	24" S.S. GRAB BAR	BOBRICK	B-5806.99 X 24	STAINLESS STEEL
Ⓕ	36" S.S. GRAB BAR	BOBRICK	B-5806 X 36	STAINLESS STEEL
Ⓖ	2 WALL S.S. GRAB BAR	BOBRICK	B-6861	STAINLESS STEEL
Ⓗ	18" VERT. GRAB BAR	BOBRICK	B-5806 X 18	STAINLESS STEEL

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PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BATH ROOM PLANS, ELEVATIONS, AND SCHEDULES SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A403.00

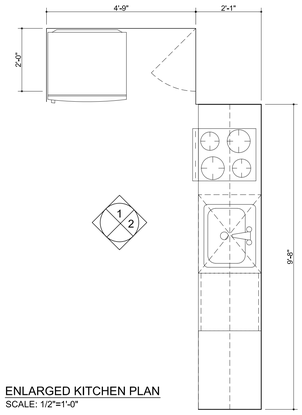
DEPT OF BLDGS 520591739 Job Number

ES490887914 Scan Code

N

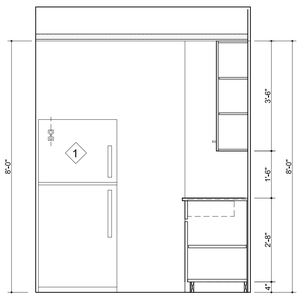
EQUIPMENT SCHEDULE/ DESIGN. THUS 1 ◇

ITEM	DESCRIPTION	MANUF.	MODEL NO.	DESCRIPTION
◇1	REFRIGERATOR	AMANA	ABL2222FES	WHITE
◇2	24 INCH DISH WASHER	WHIRPOOL	D41145XTPQ	WHITE
◇3	RANGE, GAS	COORDINATE W/OWNER		
◇4	SINK	MOEN	7995	S.STL
◇5	FAUCET	MOEM	14706	S.STL.
◇6	COMBO WASHER/DRYER	GENERAL ELECTRIC	LGWM3988HWA	WHITE

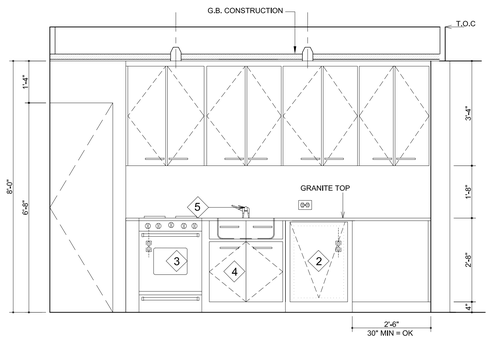


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

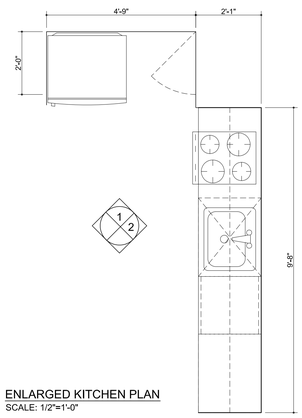
EQUAL	217	317	417	517	617
MIRROR	221	321	421	521	621



1 ELEVATION
SCALE: 1/2"=1'-0"

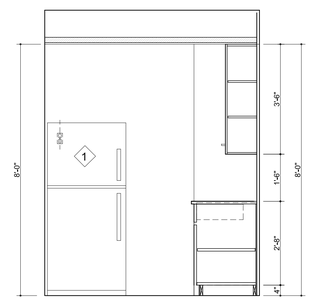


1 ELEVATION
SCALE: 1/2"=1'-0"

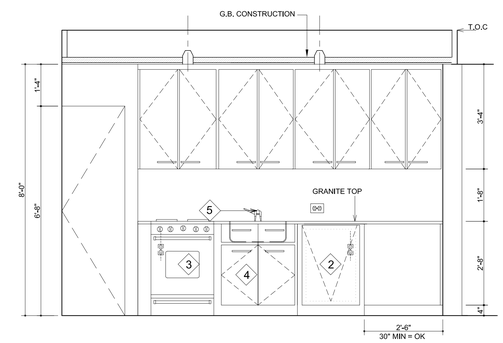


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

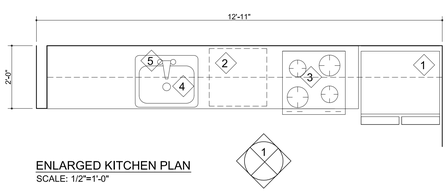
EQUAL	217	317	417	517	617
MIRROR	221	321	421	521	621



1 ELEVATION
SCALE: 1/2"=1'-0"

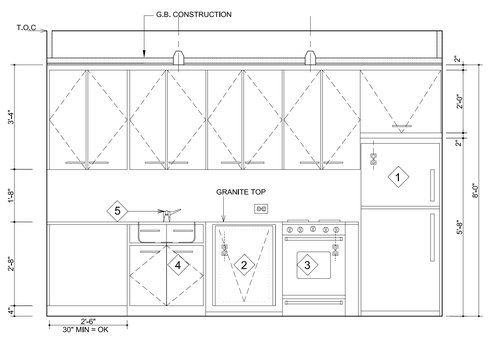


1 ELEVATION
SCALE: 1/2"=1'-0"

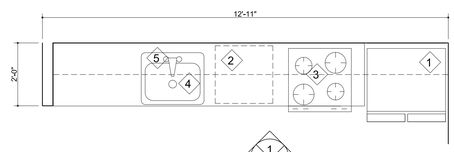


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

EQUAL	211	311	411	511	611
MIRROR	205	305	405	505	605

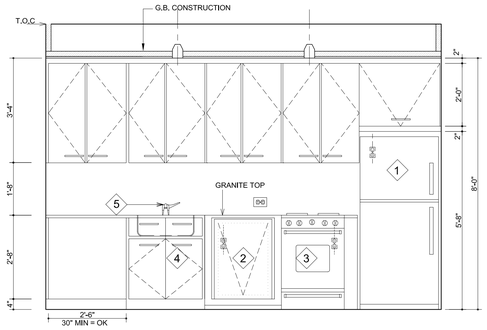


1 ELEVATION
SCALE: 1/2"=1'-0"

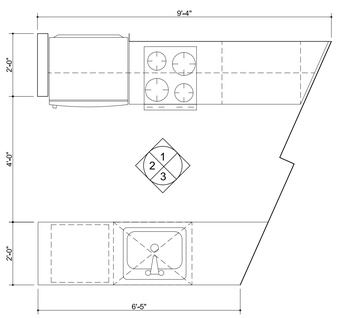


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

EQUAL	211	311	411	511	611
MIRROR	205	305	405	505	605

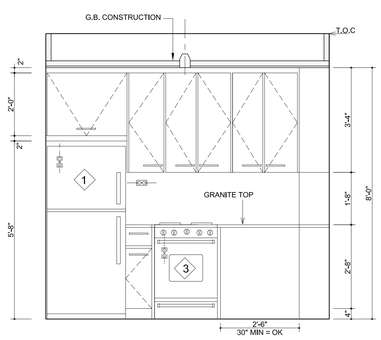


1 ELEVATION
SCALE: 1/2"=1'-0"

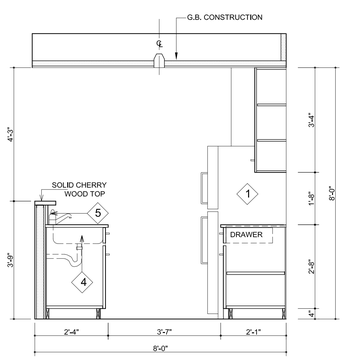


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

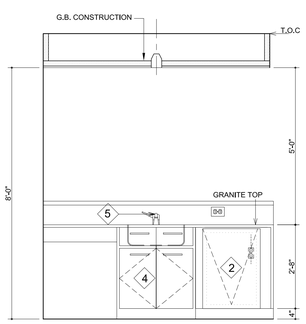
EQUAL	224	324	424	524	624



1 ELEVATION
SCALE: 1/2"=1'-0"



2 ELEVATION
SCALE: 1/2"=1'-0"



3 ELEVATION
SCALE: 1/2"=1'-0"

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-456-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levi-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	KITCHEN PLANS, ELEVATIONS, AND EQUIPMENT SCHEDULE SCALE: AS SHOWN	1: ISSUED 06-18-2013 2: 3: 4:	A404.00

REGISTERED ARCHITECT
ANTHONY ISSAC
No. 018258
STATE OF NEW YORK

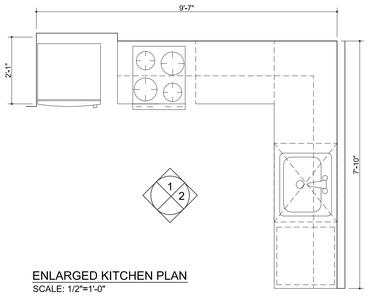
DEPT OF BLDGS 520091739 Job Number

ES1190191123 Scan Code

N

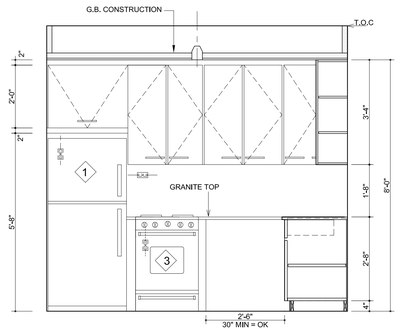
EQUIPMENT SCHEDULE/ DESIGN. THUS 1 ◇

ITEM	DESCRIPTION	MANUF.	MODEL NO.	DESCRIPTION
◇	REFRIGERATOR	AMANA	ABL2222FES	WHITE
◇	24 INCH DISH WASHER	WHIRPOOL	D41145XTPQ	WHITE
◇	RANGE, GAS	COORDINATE W/OWNER		
◇	SINK	MOEN	7995	S.STL
◇	FAUCET	MOEM	14706	S.STL.
◇	COMBO WASHER/DRYER	GENERAL ELECTRIC	LGWM3988HWA	WHITE

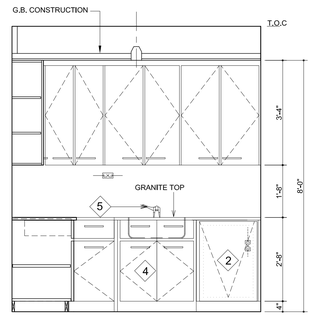


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

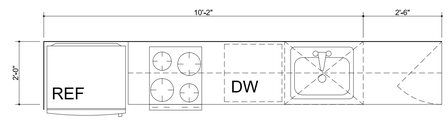
EQUAL 715



1 ELEVATION
SCALE: 1/2"=1'-0"

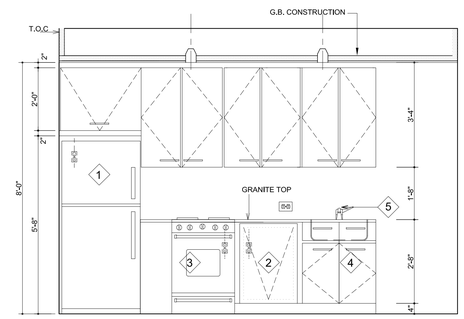


2 ELEVATION
SCALE: 1/2"=1'-0"

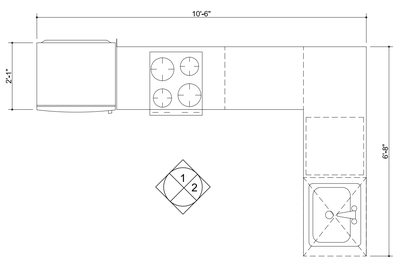


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

EQUAL 705

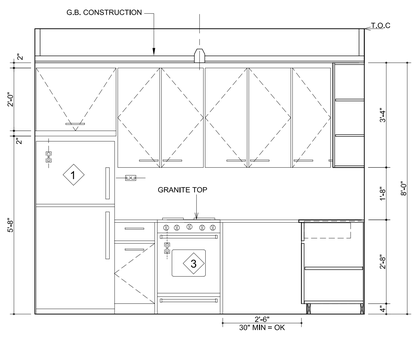


1 ELEVATION
SCALE: 1/2"=1'-0"

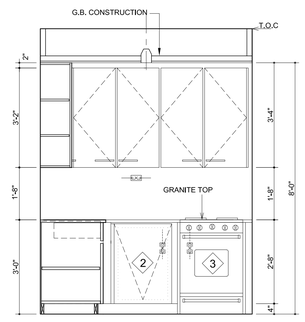


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

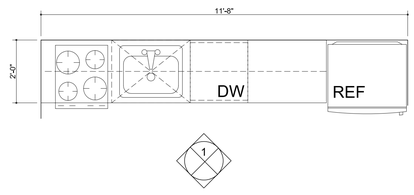
EQUAL 720



1 ELEVATION
SCALE: 1/2"=1'-0"

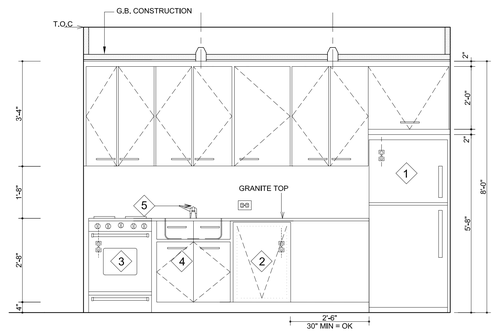


1 ELEVATION
SCALE: 1/2"=1'-0"

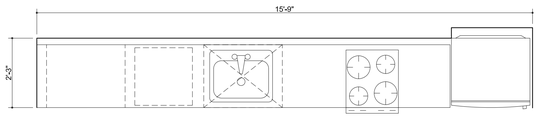


ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

EQUAL 710

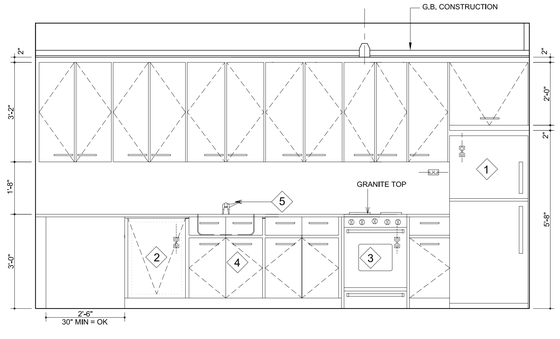


1 ELEVATION
SCALE: 1/2"=1'-0"



ENLARGED KITCHEN PLAN
SCALE: 1/2"=1'-0"

EQUAL 724



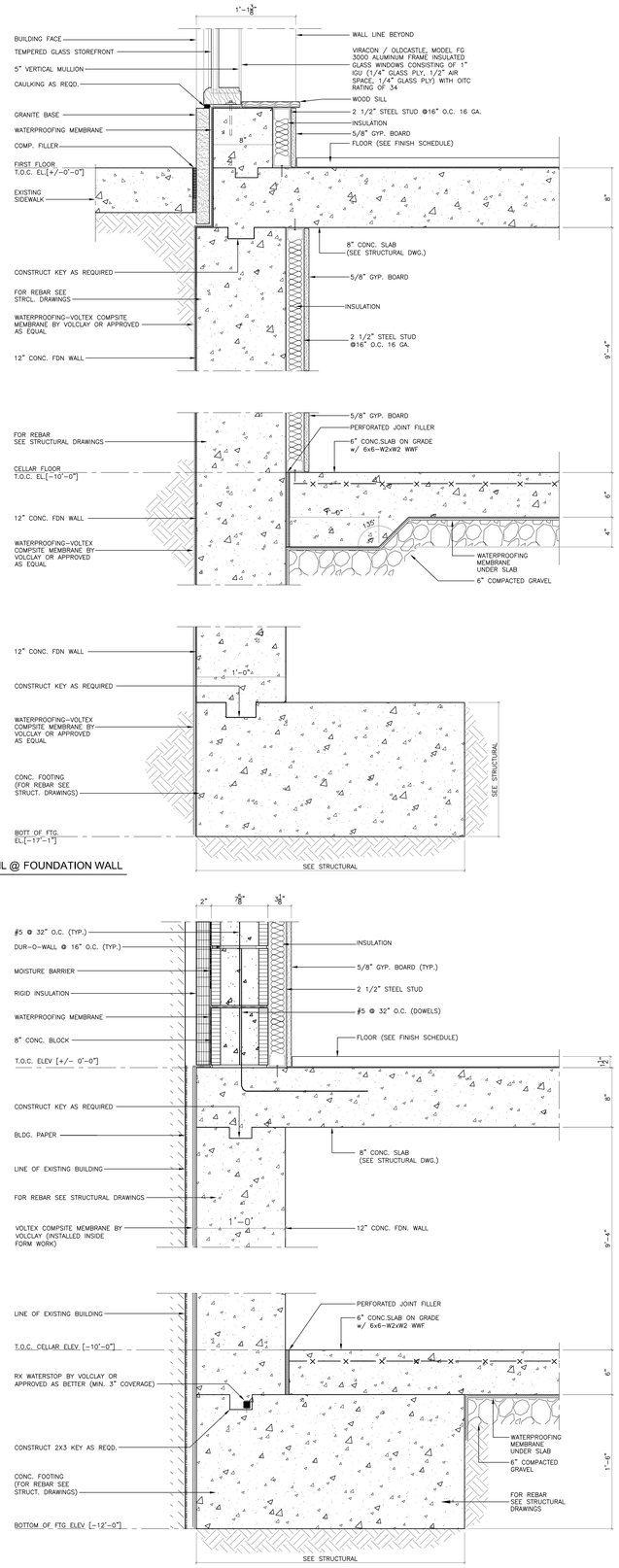
1 ELEVATION
SCALE: 1/2"=1'-0"

Clara Gomez

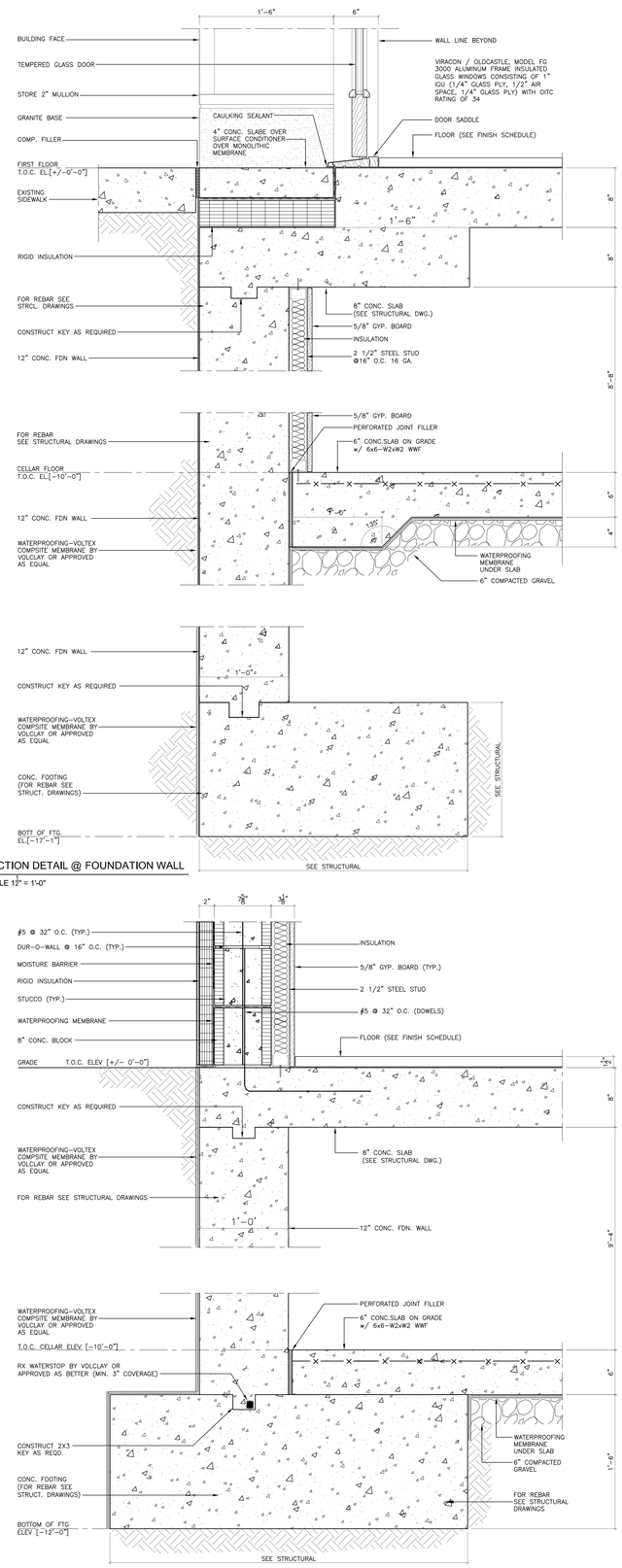
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY, 11378 718-456-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11230 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	KITCHEN PLANS, ELEVATIONS, AND EQUIPMENT SCHEDULE SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. 3. 4.	REGISTERED ARCHITECT ISAAC & STERN 016226 STATE OF NEW YORK	A405.00

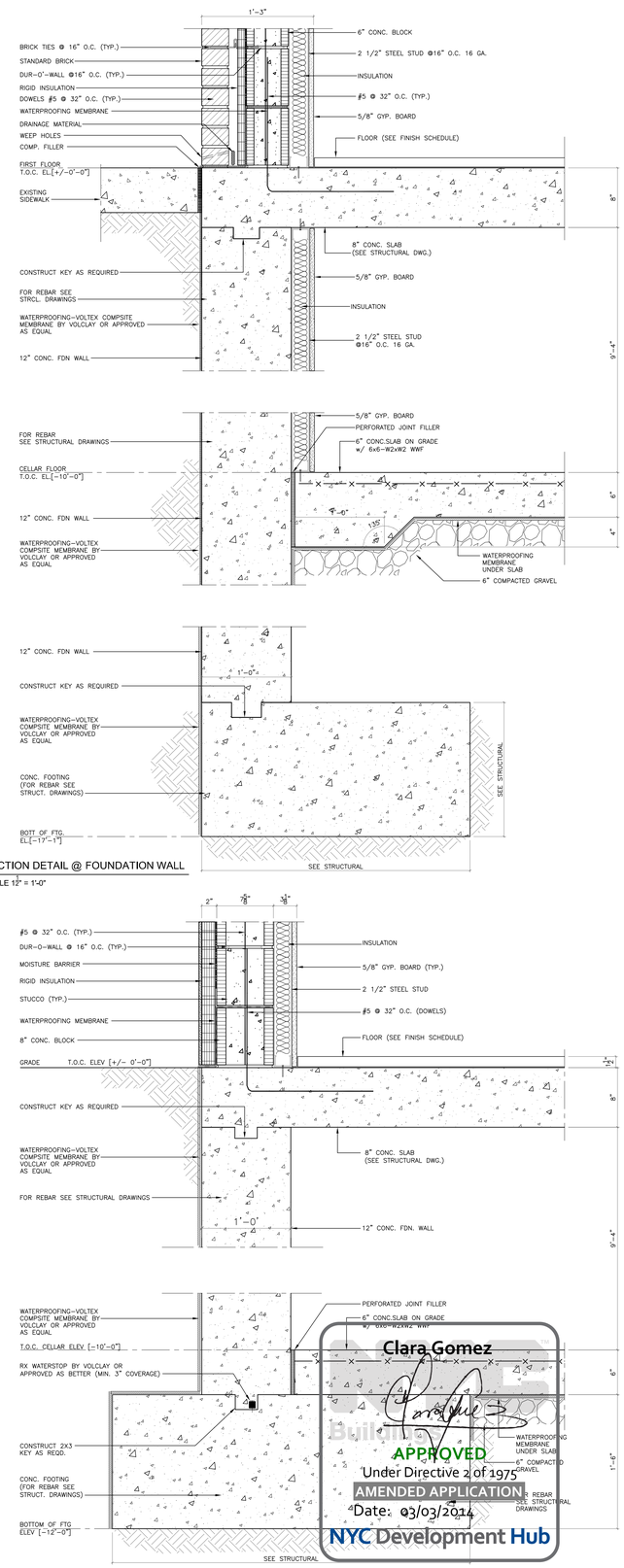
DEPT OF BLDGS 500991739 Job Number
E587134067 Scan Code



1 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"



2 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"



3 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"

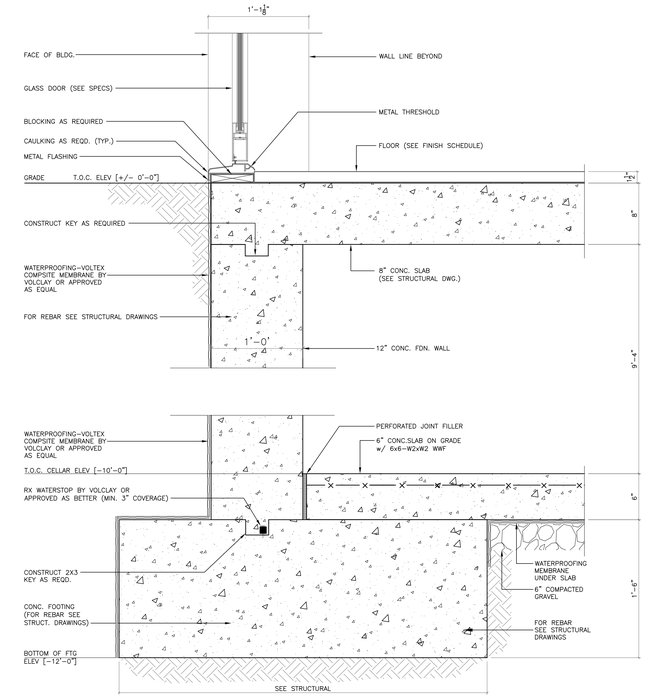
4 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"

5 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"

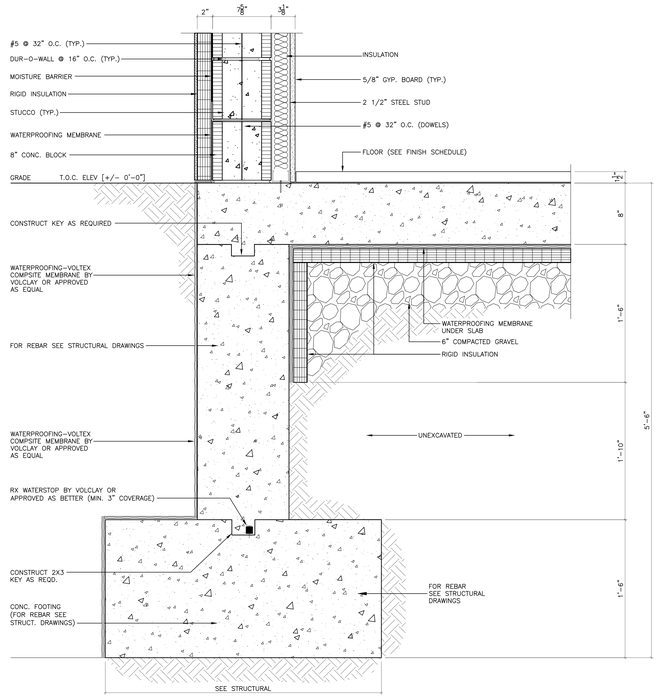
6 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"

Clara Gomez
Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

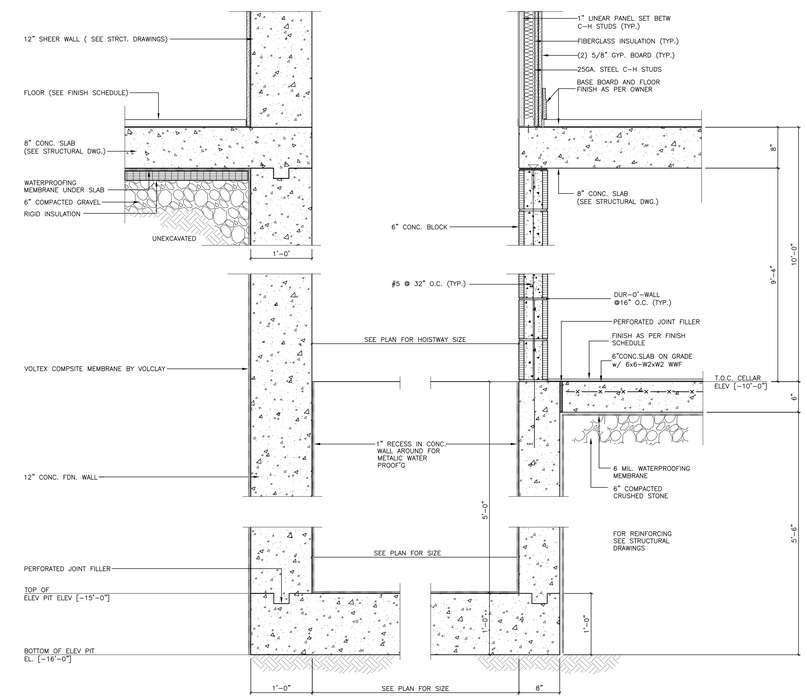
OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 6543 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 962-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: bleven@levinengineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECTION DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A500.00



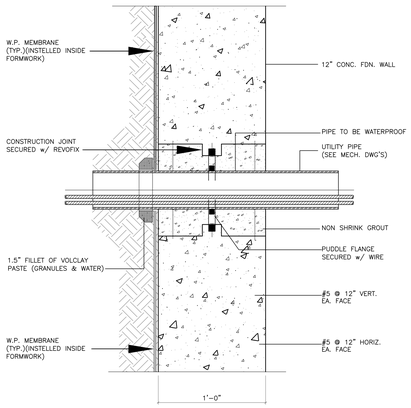
1 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"



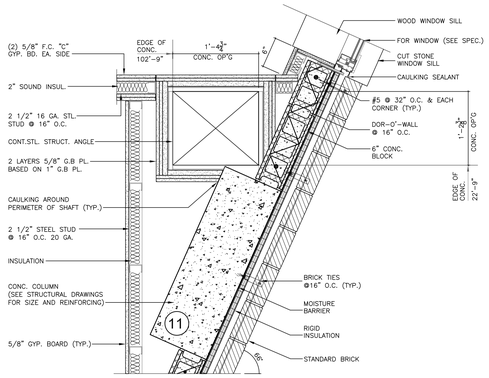
2 SECTION DETAIL @ FOUNDATION WALL
SCALE 1/2" = 1'-0"



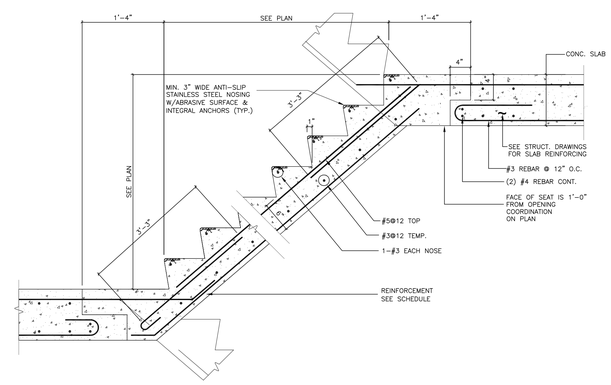
3 SECTION DETAIL @ FOUNDATION WALL
SCALE 1" = 1'-0"



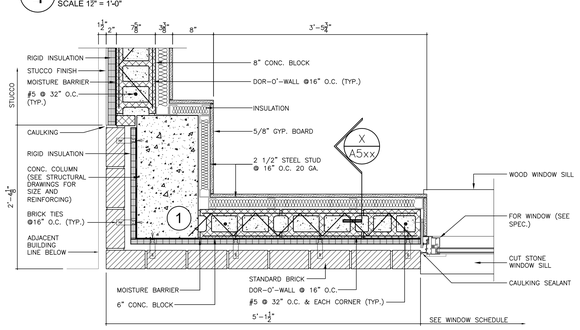
4 TYP. SECTION DETAIL @ UTILITY PENETRATION
SCALE 1/2" = 1'-0"



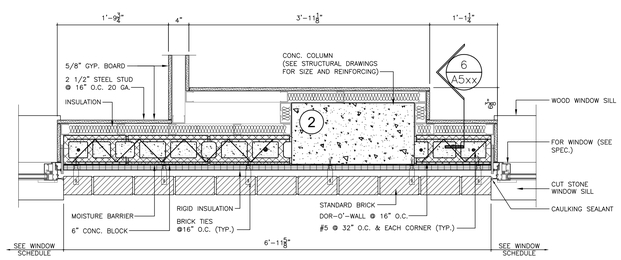
5 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



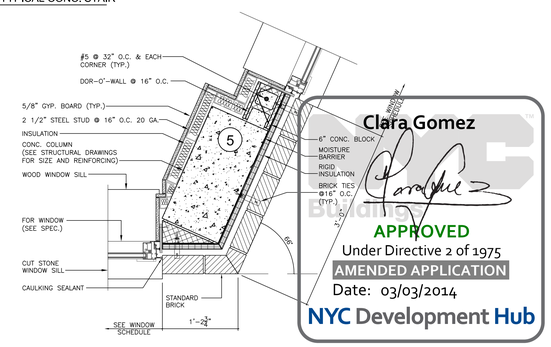
6 SECTION DETAIL @ TYPICAL CONC. STAIR
SCALE 1" = 1'-0"



7 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



8 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



9 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"

Clara Gomez
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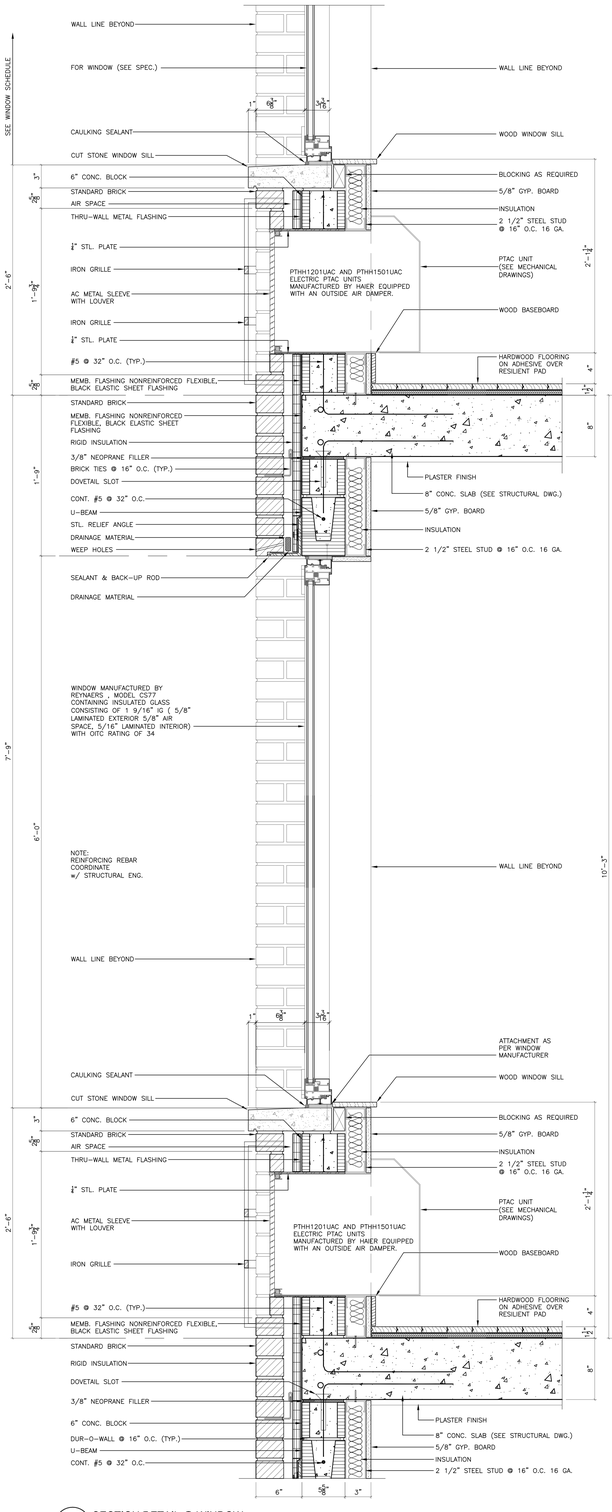
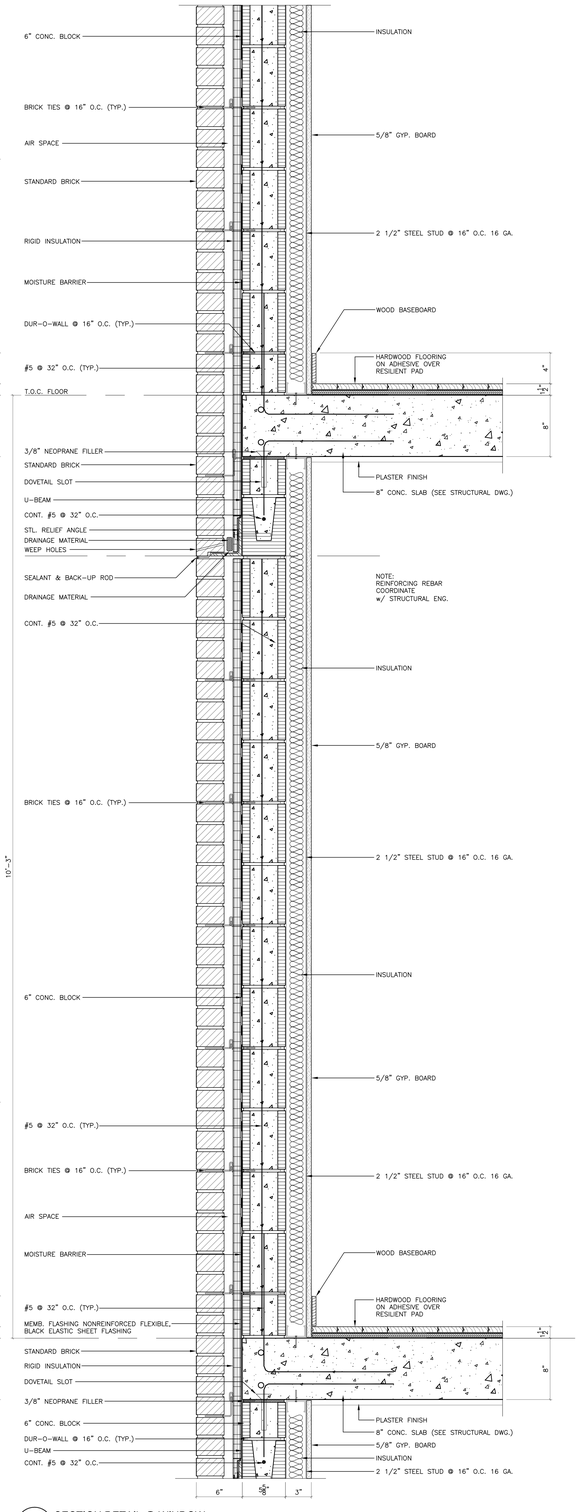
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 29 West 27th St. 9th Floor New York NY 10001 212-265-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECTION DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT STATE OF NEW YORK	A501.00

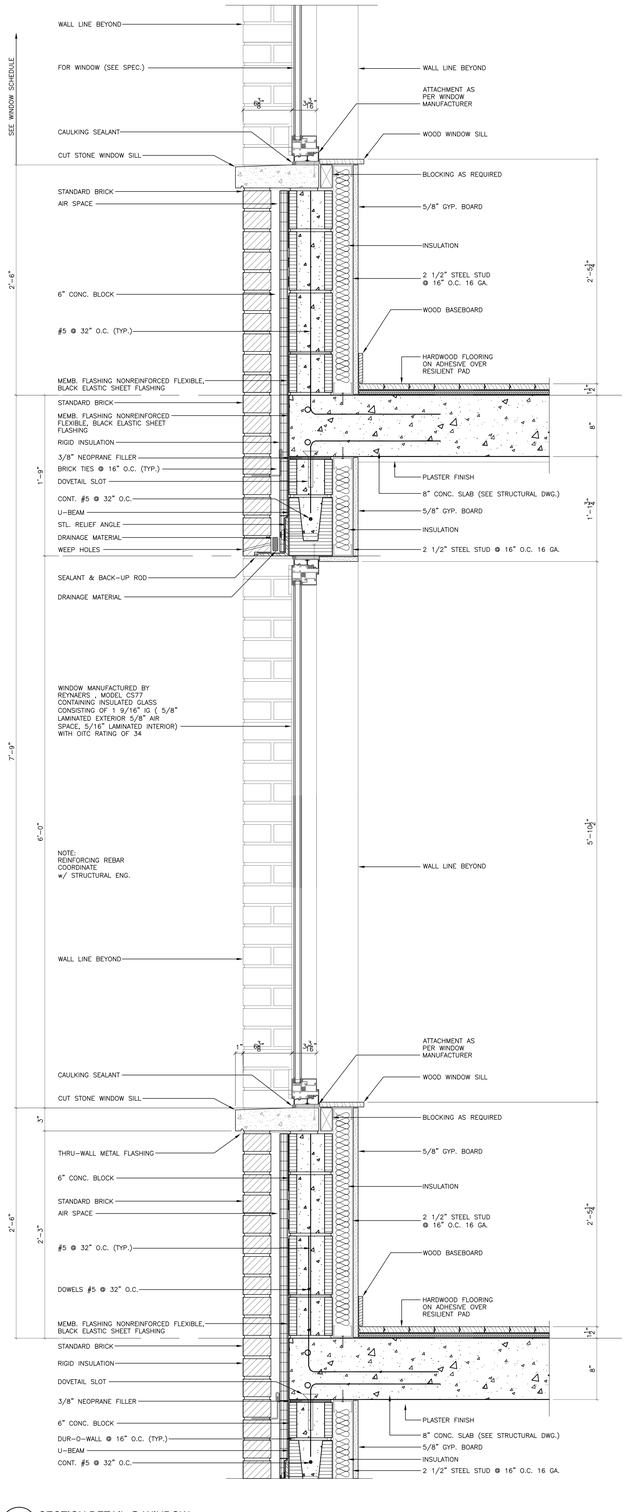
DEPT OF BLDGS 500991739 Job Number
E549125932 Scan Code



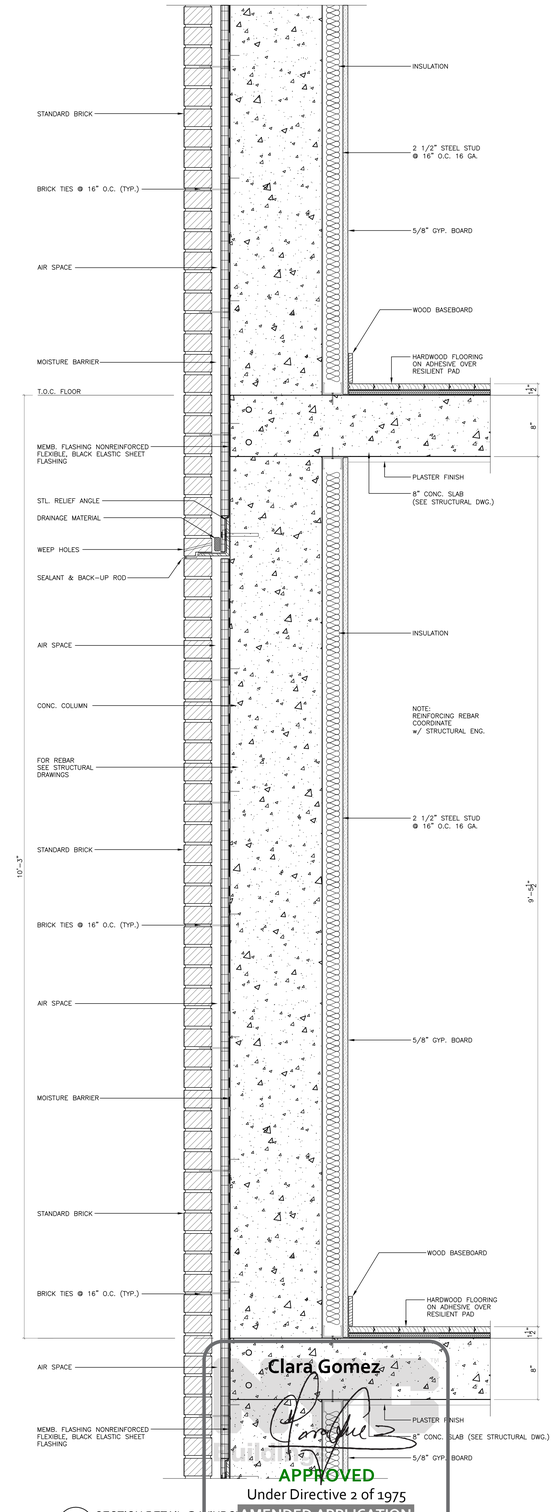
1 SECTION DETAIL @ WINDOW
SCALE 1 1/2" = 1'-0"



2 SECTION DETAIL @ WINDOW
SCALE 1 1/2" = 1'-0"



3 SECTION DETAIL @ WINDOW
SCALE 1 1/2" = 1'-0"



4 SECTION DETAIL @ WINDOW
SCALE 1 1/2" = 1'-0"

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APPROVED
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NYC Development Hub

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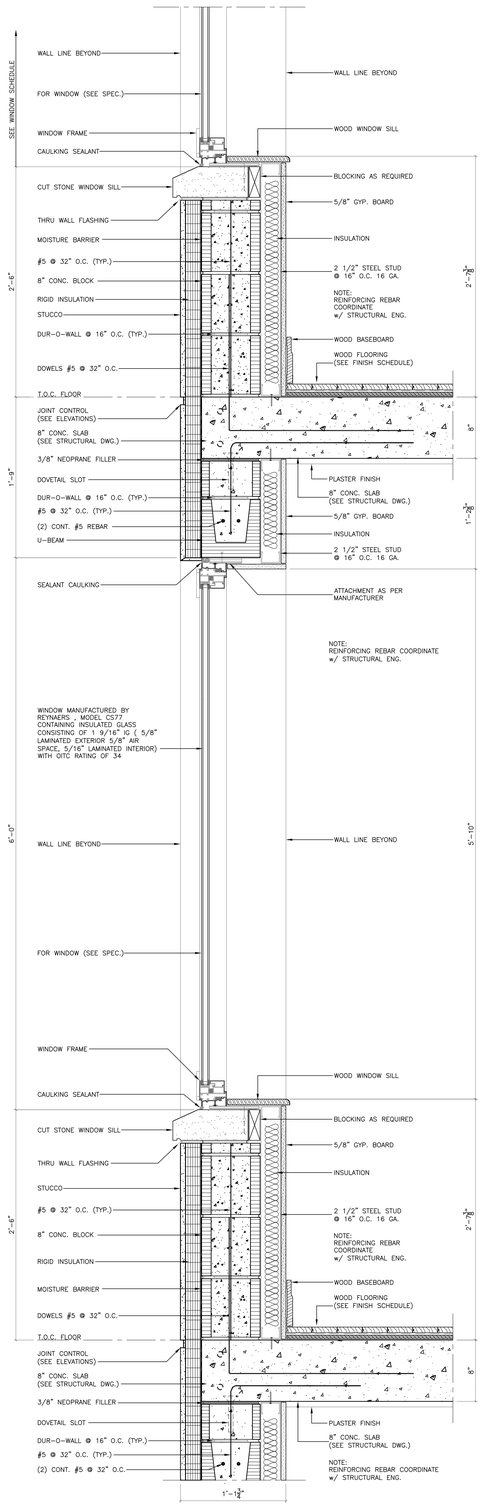
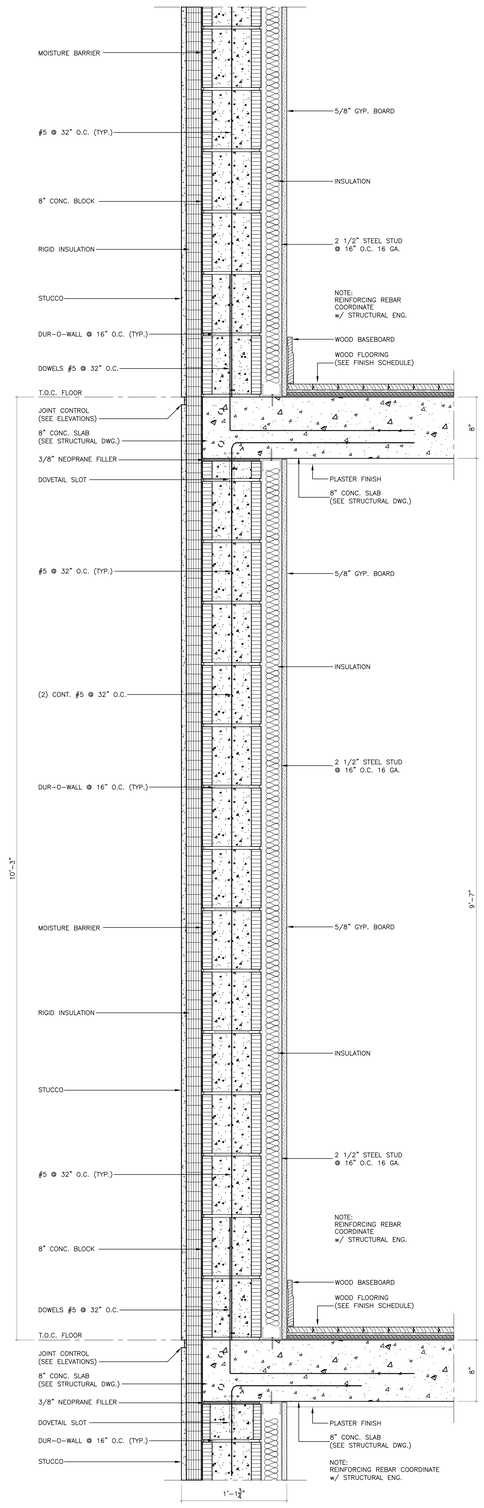
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2274 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 29 West 21st St. 9th Floor New York NY 10001 212-206-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECTION DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT STATE OF NEW YORK	A502.00

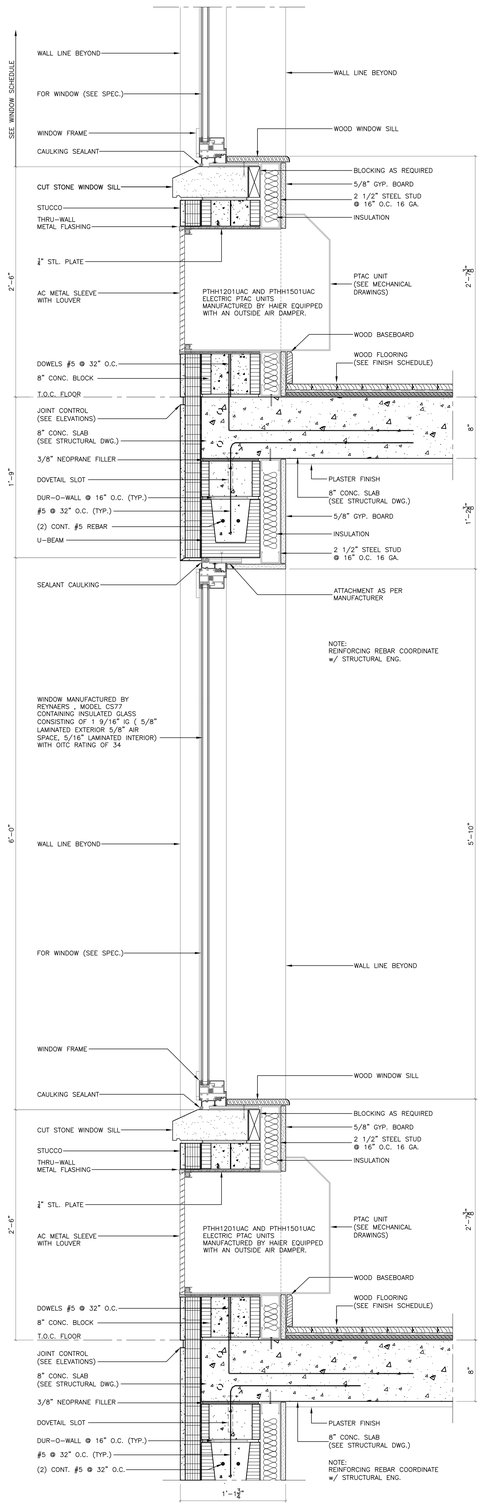
DEPT OF BLDGS 500991739 Job Number
E303754389 Scan Code



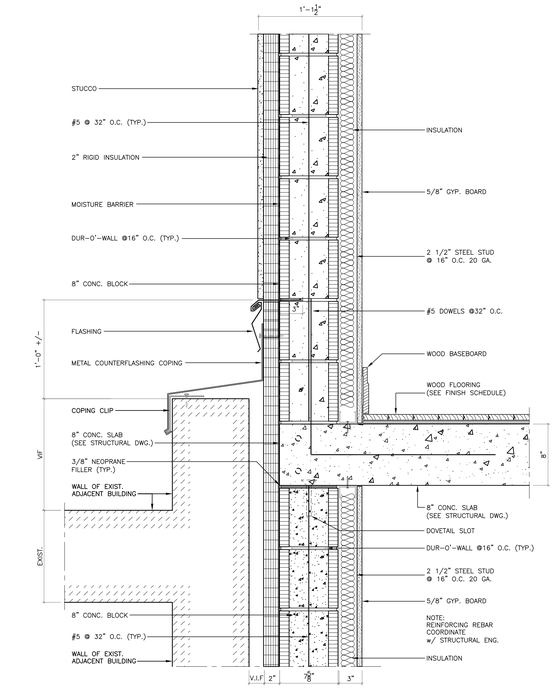
1 TYPICAL SECTION DETAIL
SCALE 1½" = 1'-0"



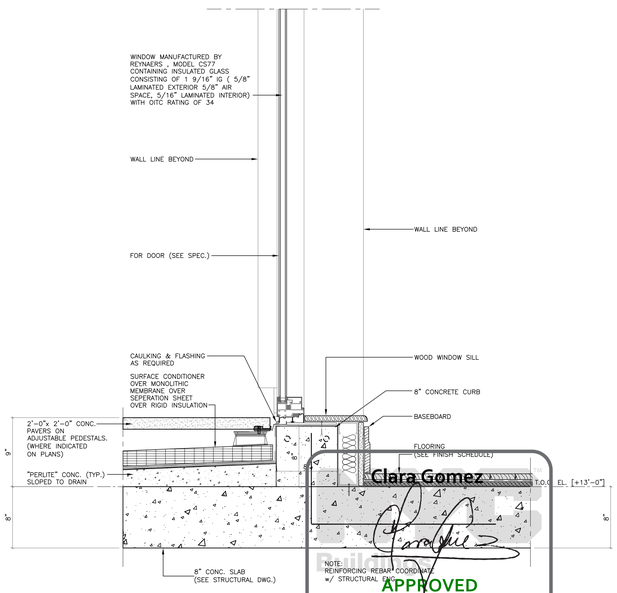
2 TYPICAL SECTION DETAIL
SCALE 1½" = 1'-0"



3 TYPICAL SECTION DETAIL
SCALE 1½" = 1'-0"



4 TYPICAL SECTION DETAIL @ ADJACENT BUILDING
SCALE 1½" = 1'-0"



5 SECTION DETAIL @ TERRACE
SCALE 1½" = 1'-0"

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
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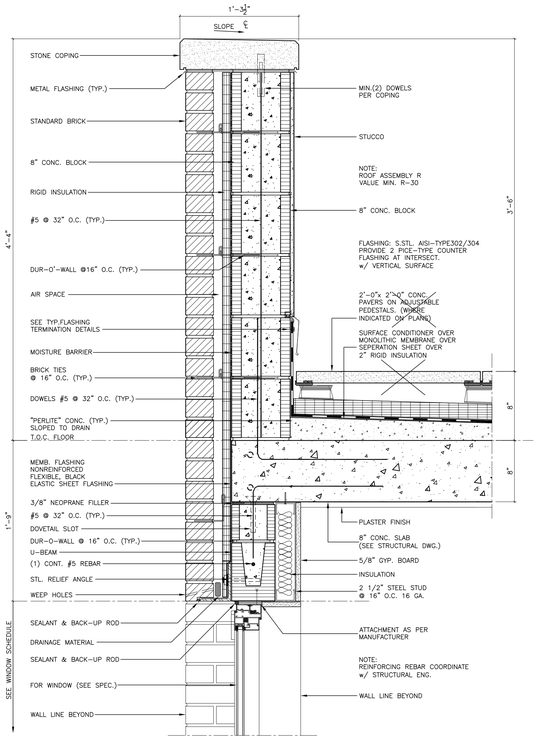
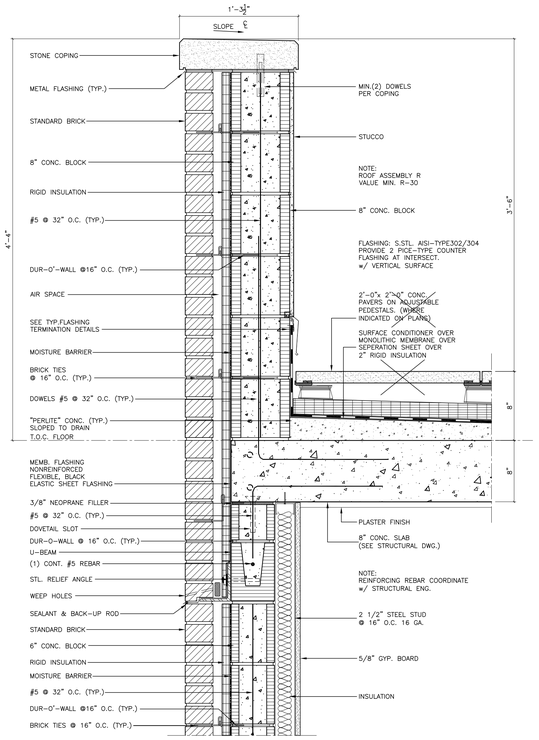
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 6543 MASPETH AVENUE MASPETH, NY, 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 962-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: bleven@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 21st St, 9th Floor New York NY 10001 212-255-0600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECTION DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT STATE OF NEW YORK	A503.00

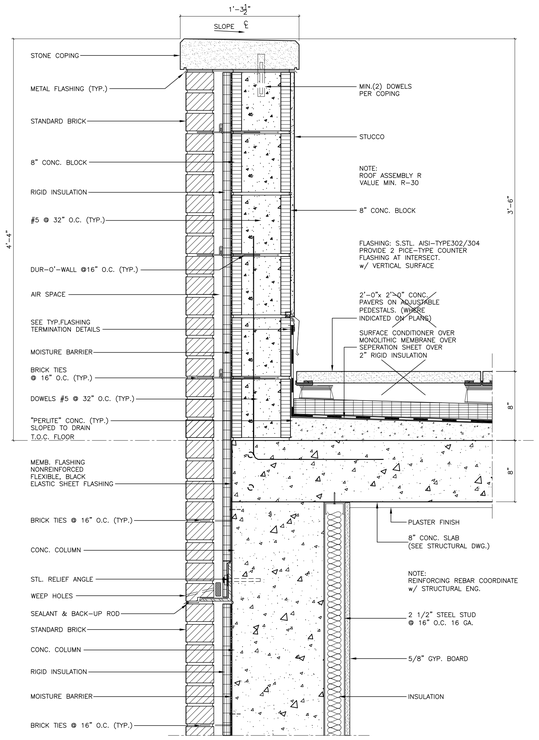
DEPT OF BLDGS 520991739 Job Number
B2c20463923 Scan Code



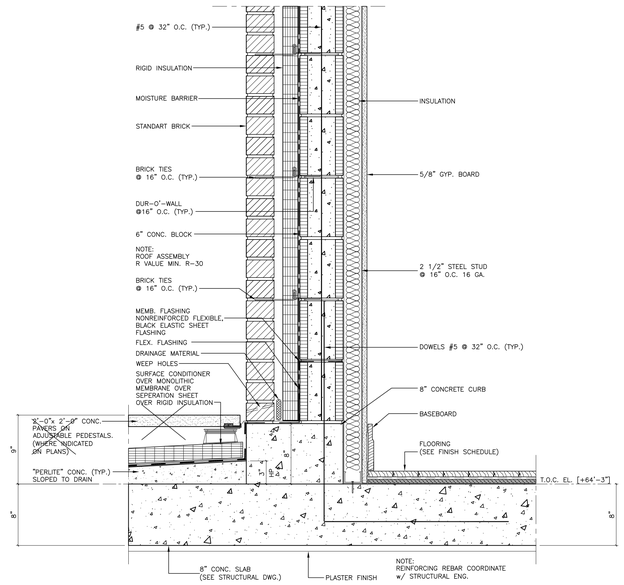
1 SECTION DETAIL @ PARAPET
SCALE 1/2" = 1'-0"



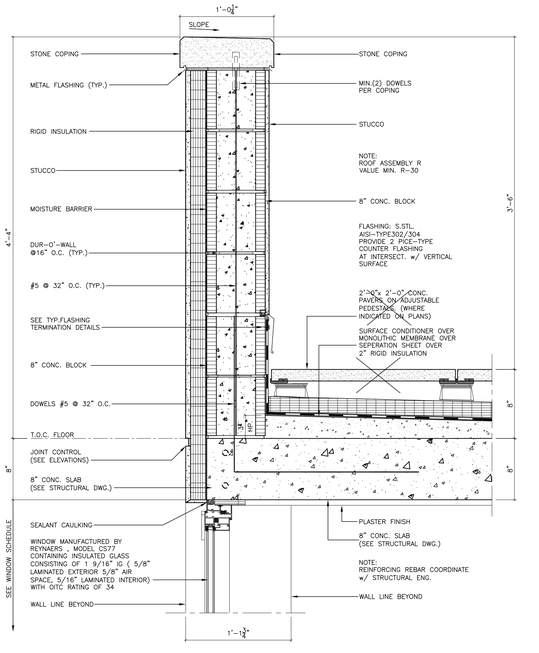
2 SECTION DETAIL @ PARAPET
SCALE 1/2" = 1'-0"



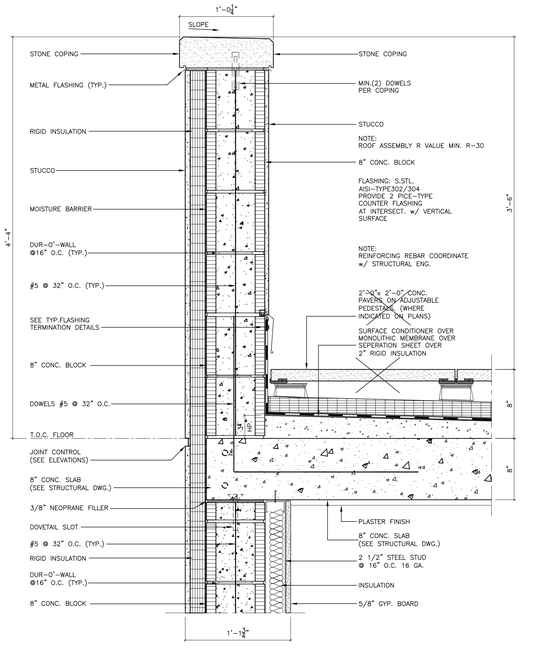
3 SECTION DETAIL @ PARAPET
SCALE 1/2" = 1'-0"



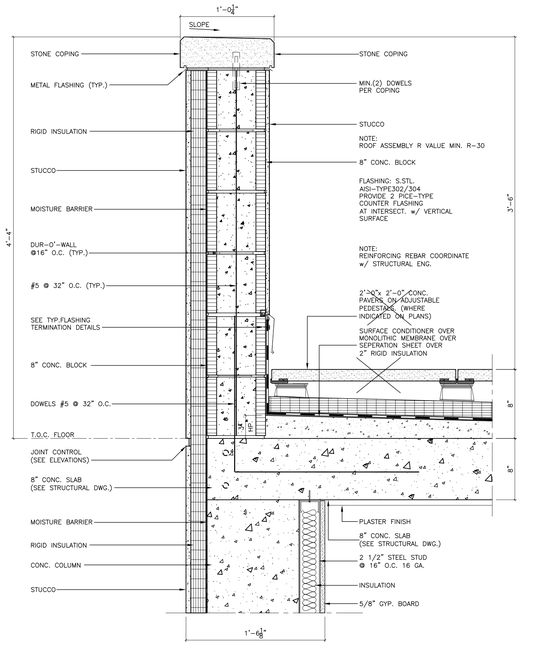
4 SECTION DETAIL @ TERRACE
SCALE 1/2" = 1'-0"



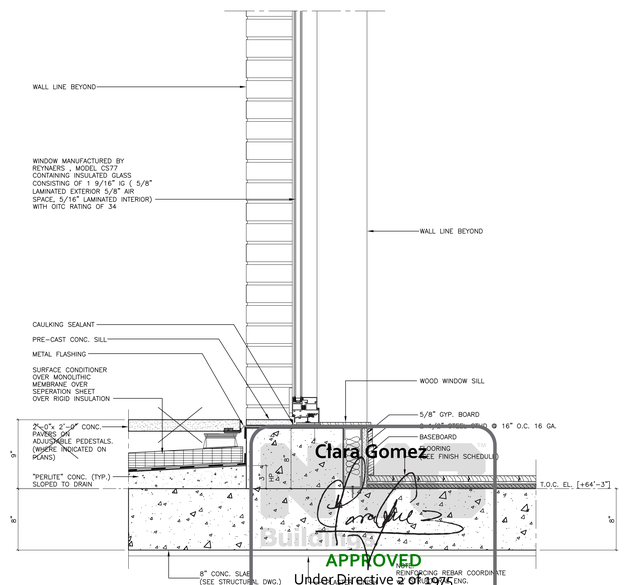
5 SECTION DETAIL @ PARAPET
SCALE 1/2" = 1'-0"



6 SECTION DETAIL @ PARAPET
SCALE 1/2" = 1'-0"



7 SECTION DETAIL @ PARAPET
SCALE 1/2" = 1'-0"

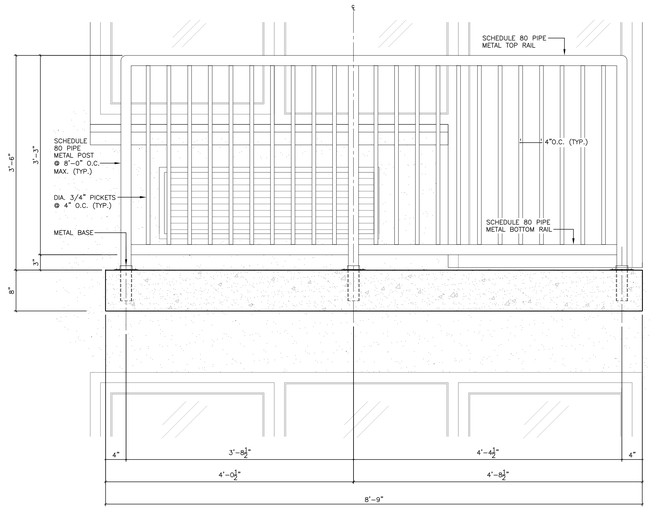


8 SECTION DETAIL @ TERRACE
SCALE 1/2" = 1'-0"

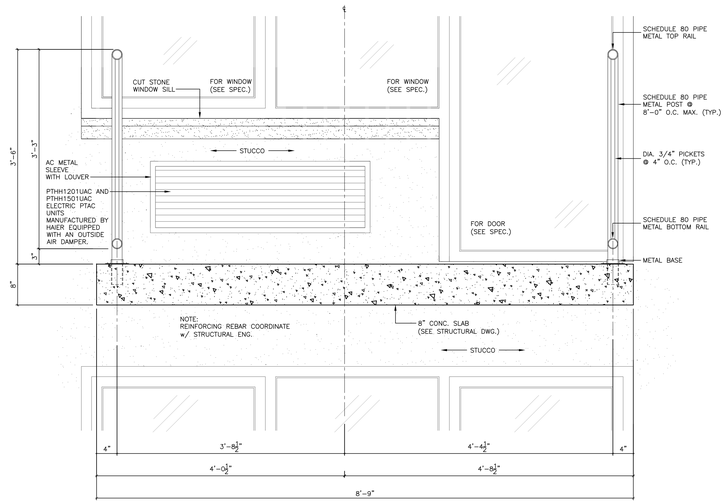
Clara Gomez
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

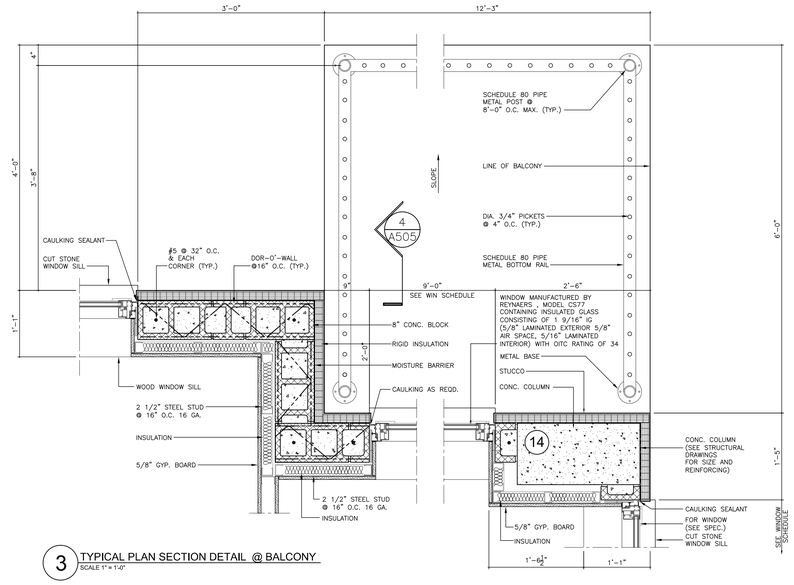
OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT TIMOTHY J. ISAAC No. 018238 STATE OF NEW YORK	A504.00



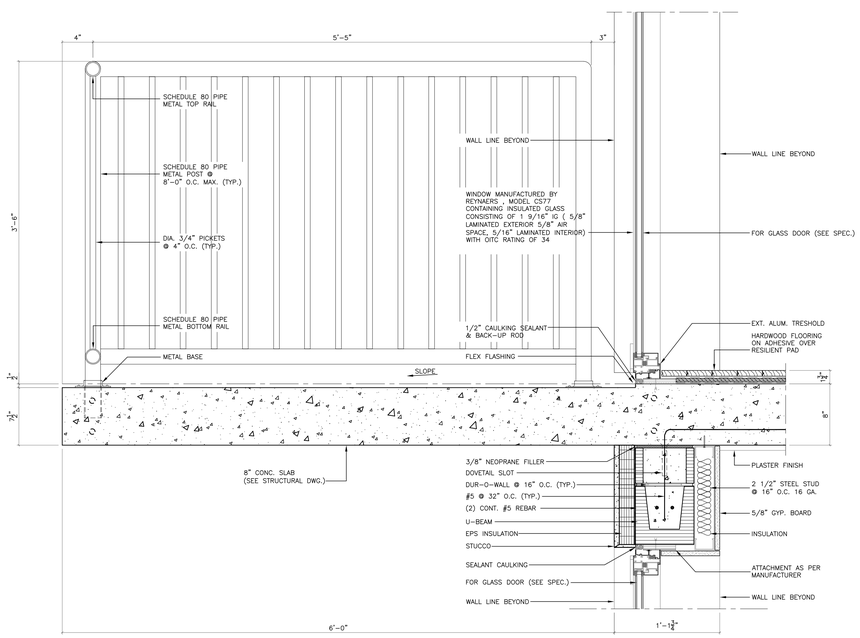
1 ENLARGED ELEVATION @ BALCONY
SCALE 1" = 1'-0"



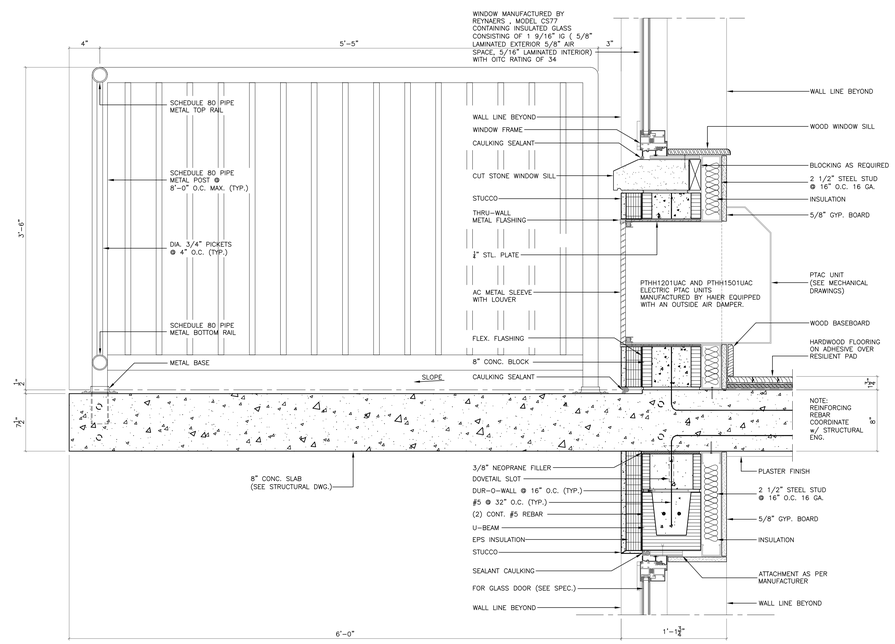
2 SECTION DETAIL @ BALCONY
SCALE 1" = 1'-0"



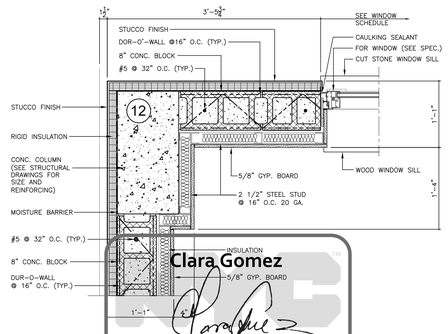
3 TYPICAL PLAN SECTION DETAIL @ BALCONY
SCALE 1" = 1'-0"



4 SECTION DETAIL @ BALCONY
SCALE 1½" = 1'-0"



5 SECTION DETAIL @ BALCONY
SCALE 1½" = 1'-0"



6 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"

Clara Gomez

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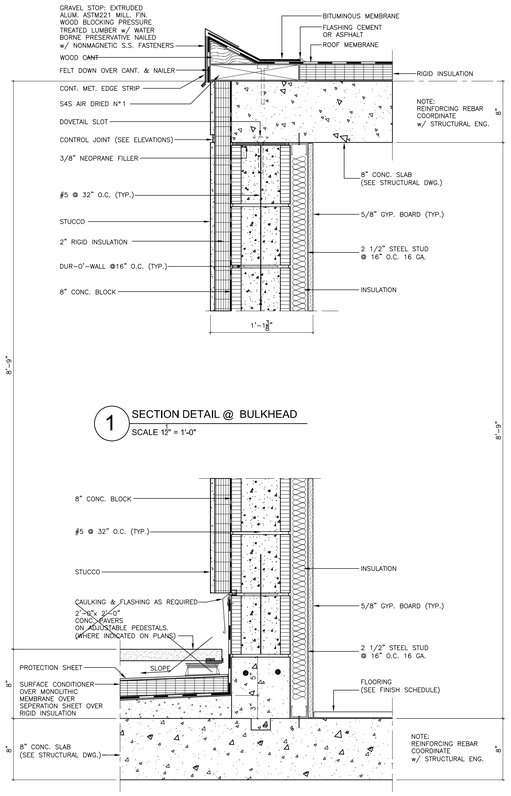
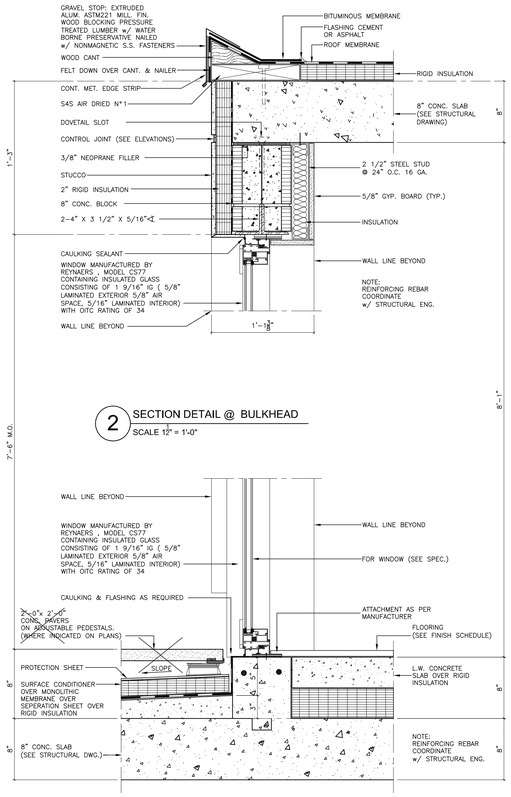
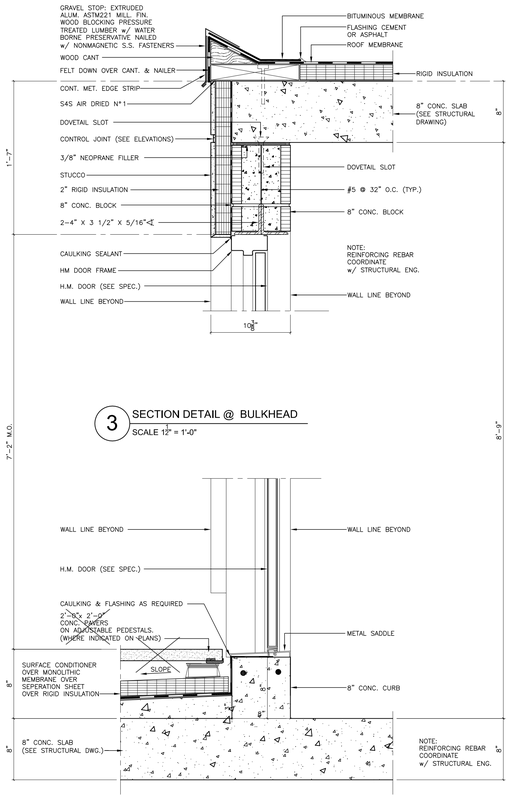
OWNER / DEVELOPER:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11230 P: (718) 232-2260 F: (718) 232-2274 E: l.levin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT STATE OF NEW YORK	A505.00



1 SECTION DETAIL @ BULKHEAD
SCALE 12" = 1'-0"



2 SECTION DETAIL @ BULKHEAD
SCALE 12" = 1'-0"



3 SECTION DETAIL @ BULKHEAD
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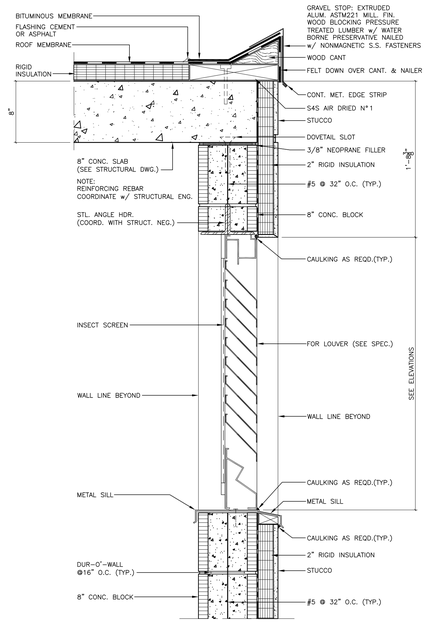
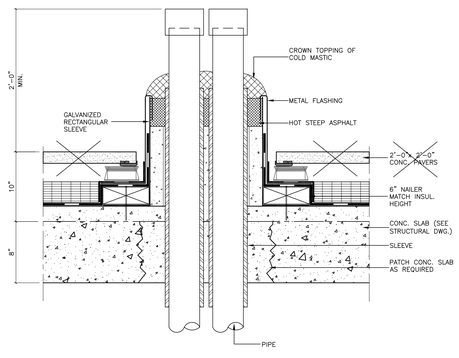


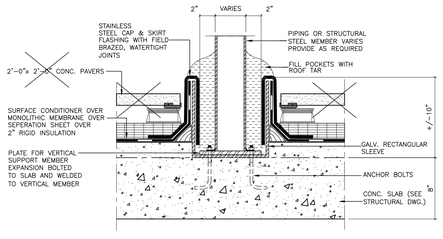
7 GRAVEL STOP @ LOUVER DETAIL
SCALE 12" = 1'-0"

4 SECTION DETAIL @ BULKHEAD
SCALE 12" = 1'-0"

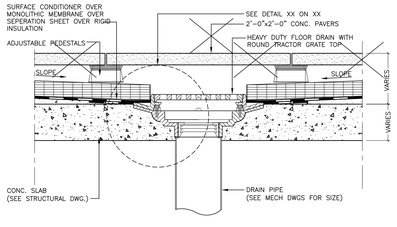


8 TYP. VENT PENETRATION THRU ROOF
SCALE 12" = 1'-0"

5 SECTION DETAIL @ BULKHEAD WINDOW
SCALE 12" = 1'-0"



9 TYP. PITCH POCKET SLEEVE
SCALE 12" = 1'-0"



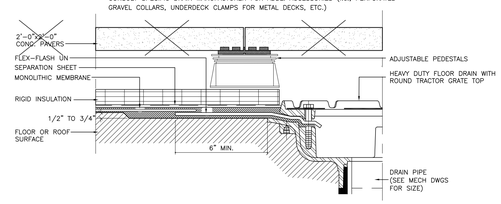
10 DRAIN DETAIL @ TERRACE
SCALE 12" = 1'-0"

6 SECTION DETAIL @ BULKHEAD DOOR
SCALE 12" = 1'-0"

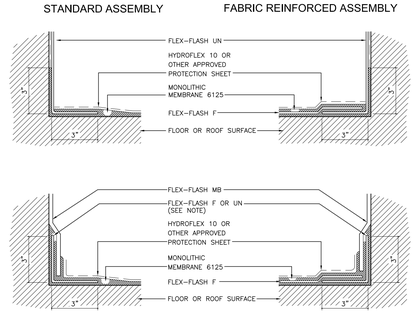
NOTES: AREA AROUND DRAIN SHOULD BE DEPRESSED/SUMPED TO PROMOTE POSITIVE WATER DRAINAGE.

REINFORCEMENT SHALL BE ONE SHEET EXTENDING A MINIMUM OF 6" BEYOND THE DRAIN FLANGE ON ALL SIDES AND SECURED IN CLAMPING RING AT DRAIN.

ALL DRAINS ARE REQUIRED TO HAVE FLASHING CLAMPING RING ASSEMBLIES. CONSULT SPECIFIC DRAIN MANUFACTURER FOR ADDL. ACCESSORIES (i.e., PERFORATED GRAVEL COLLARS, UNDERDECK CLAMPS FOR METAL DECKS, ETC.)

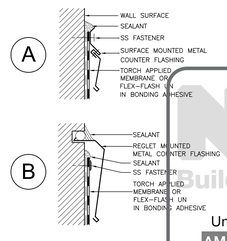


12 TYPICAL DRAIN DETAIL
SCALE 3" = 1'-0"



NOTE: FLEX-FLASH F MAY BE USED AT ALL CONCRETE-TO-CONCRETE AND CONCRETE-TO-CONCRETE BLOCK TRANSITIONS. FLEX-FLASH UN MUST BE USED AT ALL OTHER TRANSITIONS (i.e., CONC.-TO-GYP. BOARD, GYP. BOARD-TO-GYP. BOARD, ETC.).

11 ALTERNATE FLASHING CORNER TRANSITIONS
SCALE 3" = 1'-0"



13 ALTERNATE FLASHING TERMINATIONS
SCALE 3" = 1'-0"

Clara Gomez
NYC Building
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AMENDED APPLICATION
Date: 03/03/2014
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PROGRESS DRAWINGS IN PROCESS OF COORDINATION

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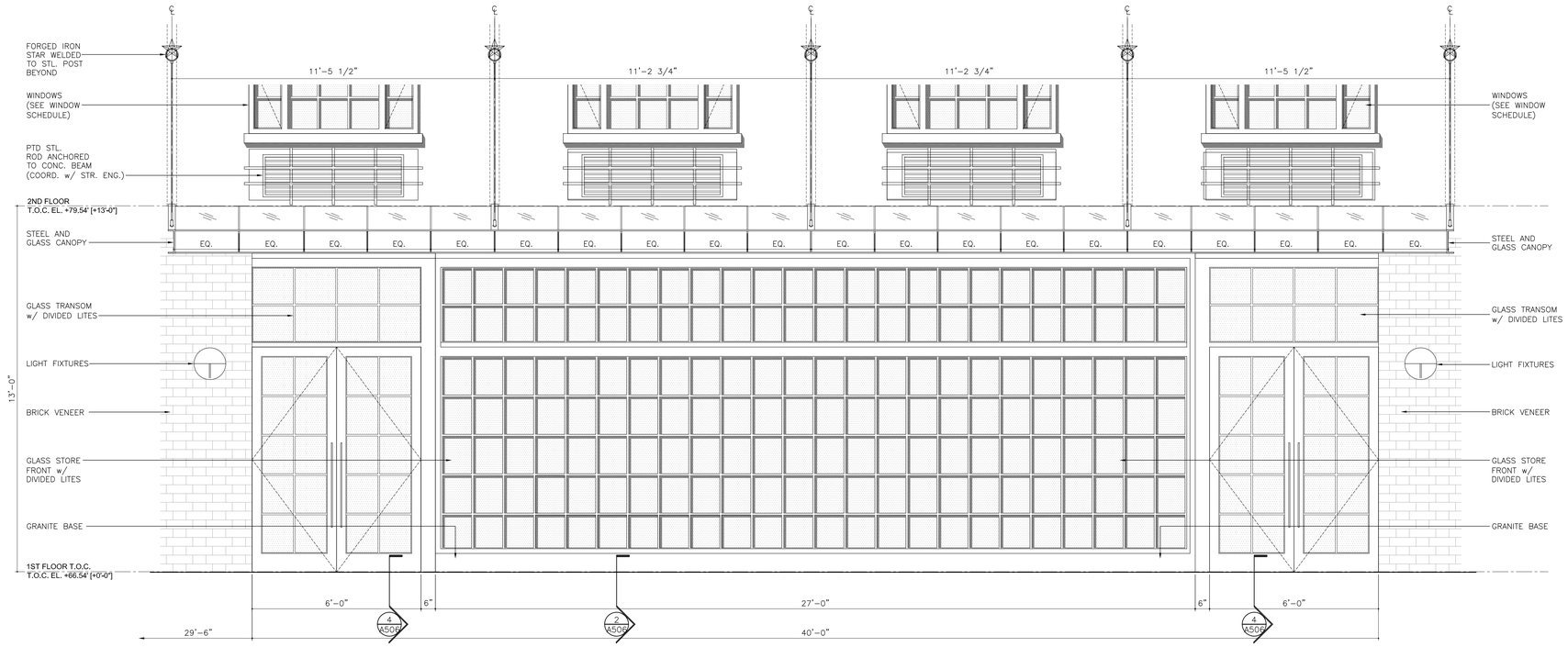
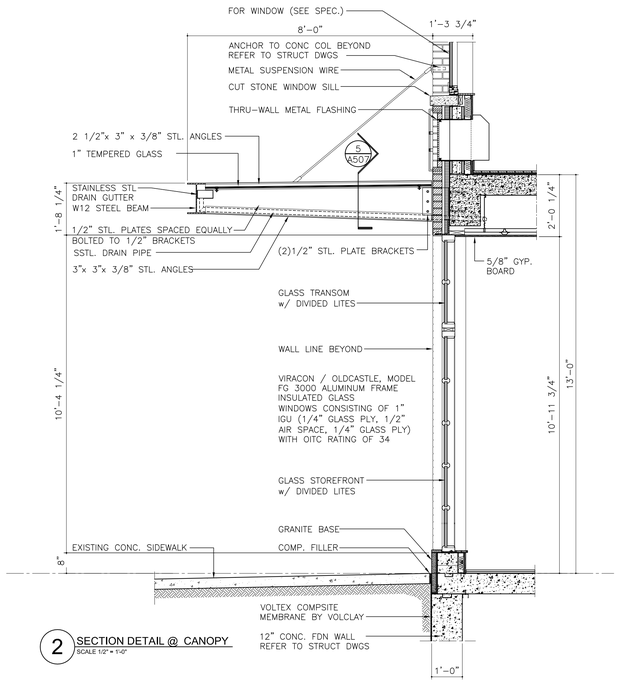
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-0274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	REGISTERED ARCHITECT TIMOTHY J. ISSAC NO. 018238 STATE OF NEW YORK	A506.00

DEPT OF BLDGS 520991739 Job Number
ES1122290004 Scan Code

MARQUEE WILL BE FIELD UNDER A SEPARATE APPLICATION



1 PARTIAL ELEVATION @ CANOPY
SCALE 1/2" = 1'-0"



2 SECTION DETAIL @ CANOPY
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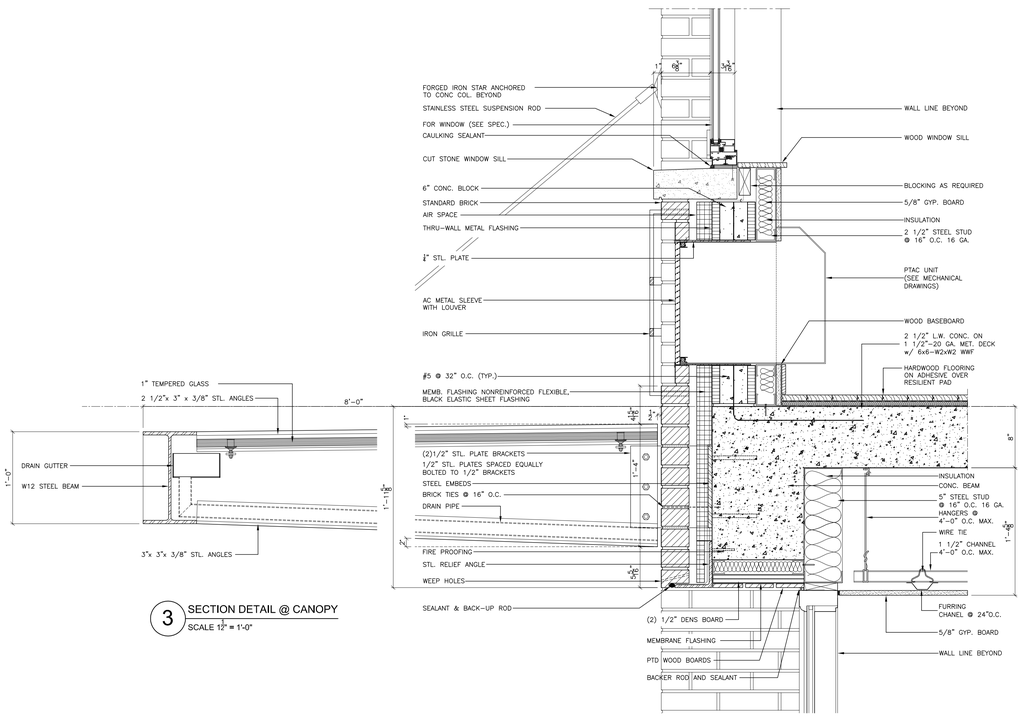

3 SECTION DETAIL @ CANOPY
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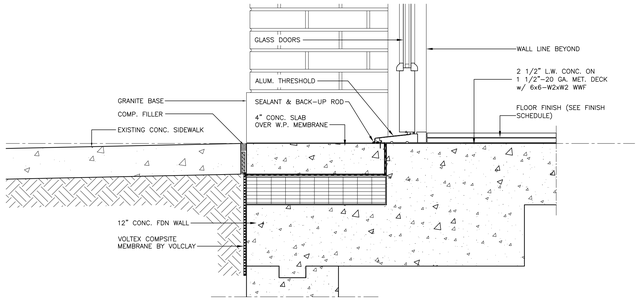
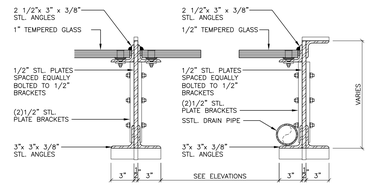
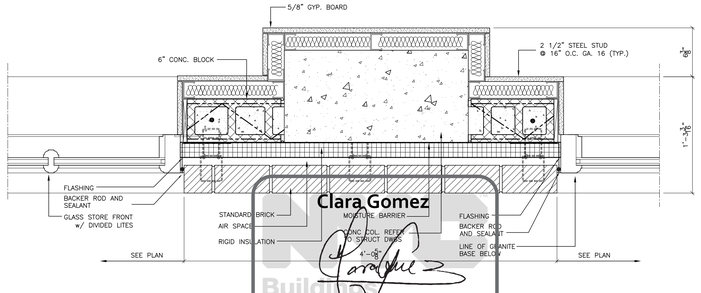


4 SECTION DETAIL @ STOREFRONT
SCALE 1/2" = 1'-0"



5 SECTION DETAIL @ CANOPY
SCALE 1/2" = 1'-0"



6 PLAN SECTION
SCALE 1/2" = 1'-0"

Clara Gomez

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AMENDED APPLICATION
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PROGRESS DRAWINGS IN PROCESS OF COORDINATION

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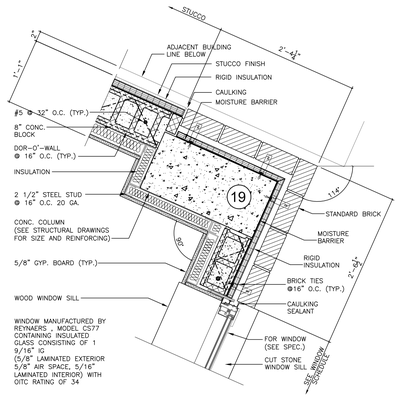
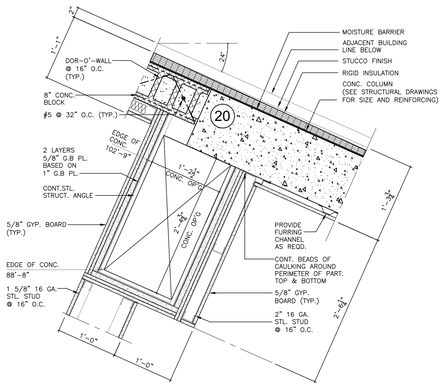
REGISTERED ARCHITECT
ISSAC & STERN
No. 018258
STATE OF NEW YORK

DEPT OF BLDGS 520991739 Job Number
E360992349 Scan Code



1 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



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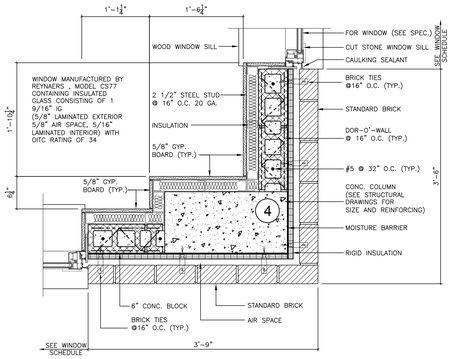

3 TYPICAL PLAN SECTION DETAIL
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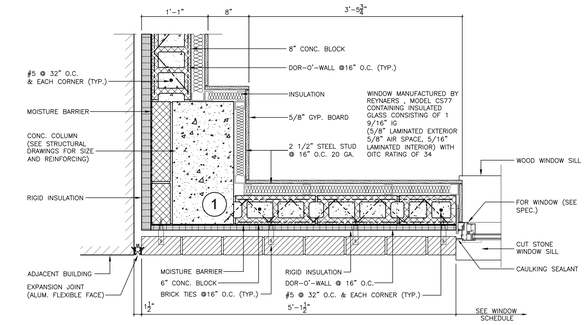

4 TYPICAL PLAN SECTION DETAIL
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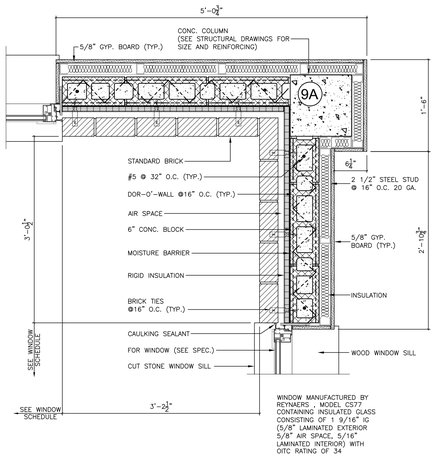
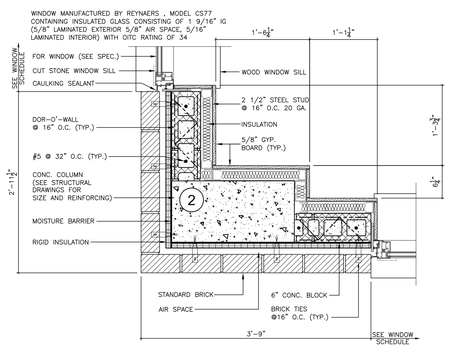


5 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



6 TYPICAL PLAN SECTION DETAIL
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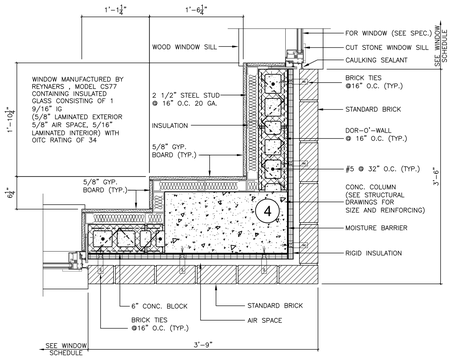
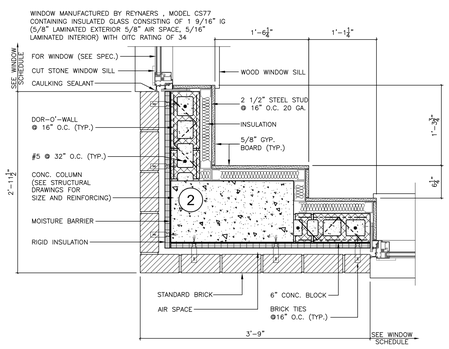
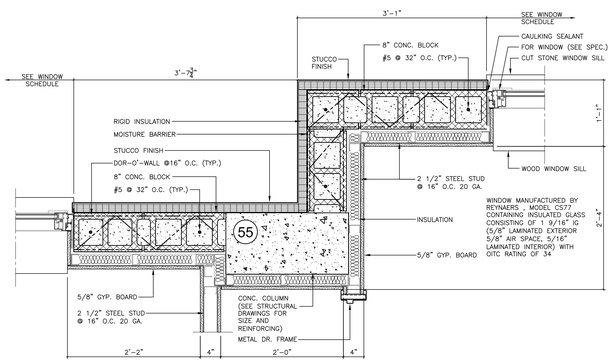


7 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



8 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



9 TYPICAL PLAN SECTION DETAIL
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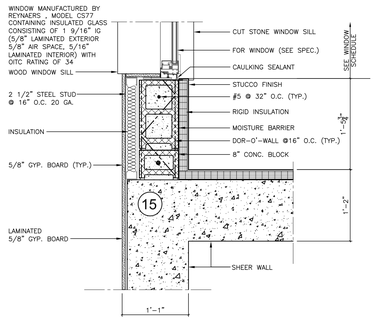

10 TYPICAL PLAN SECTION DETAIL
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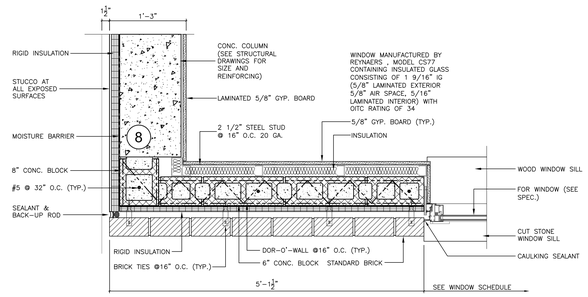
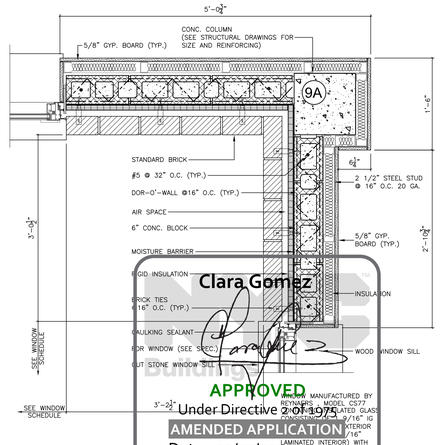


11 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"

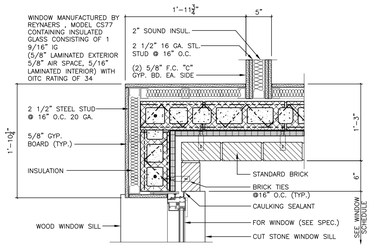


12 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"

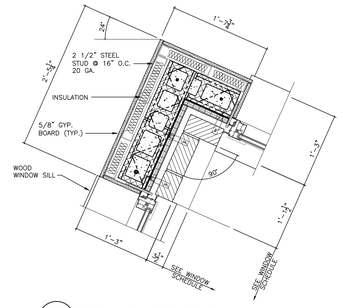
Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11230 P: (718) 332-2266 F: (718) 332-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-6600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CANOPY DETAILS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	A-508.00

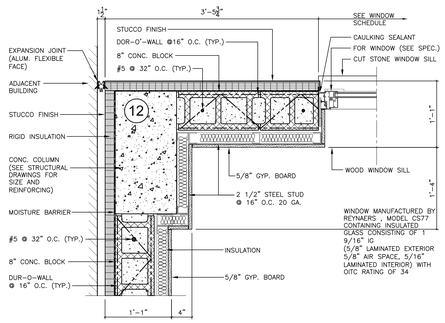
DEPT OF BLDGS 520991739 Job Number
E369237304B Scan Code



1 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



2 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



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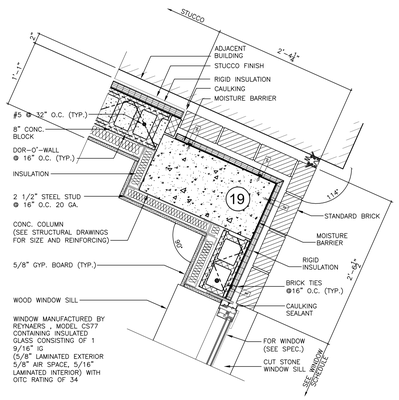
SCALE 1" = 1'-0"



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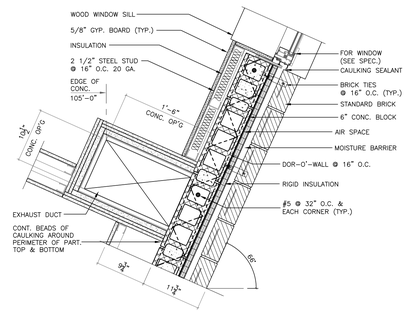
SCALE 1" = 1'-0"



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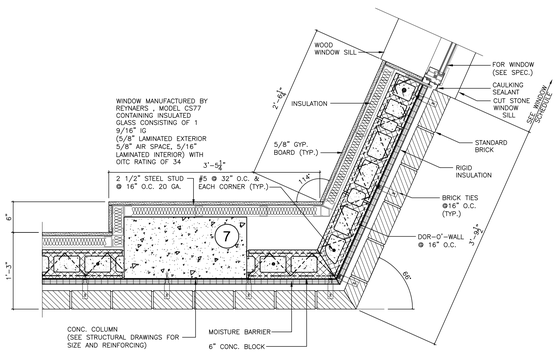
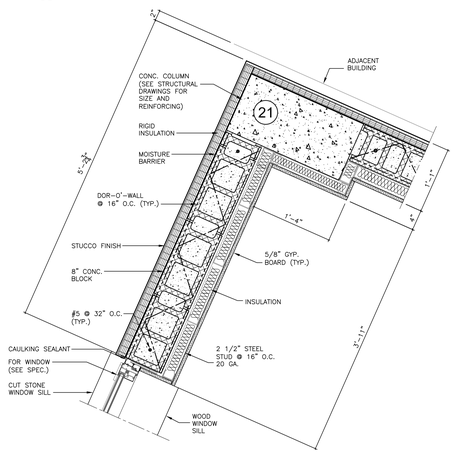
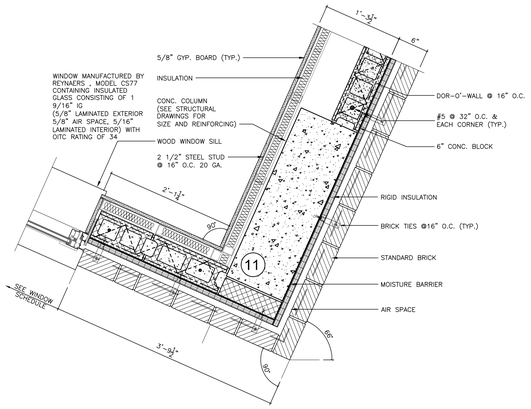
SCALE 1" = 1'-0"



6 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



7 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"



8 TYPICAL PLAN SECTION DETAIL
SCALE 1" = 1'-0"

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
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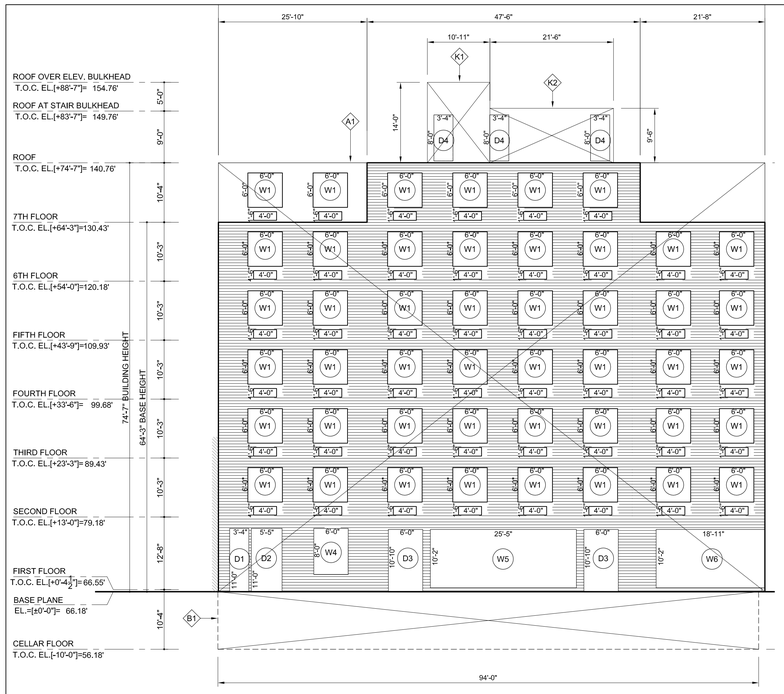
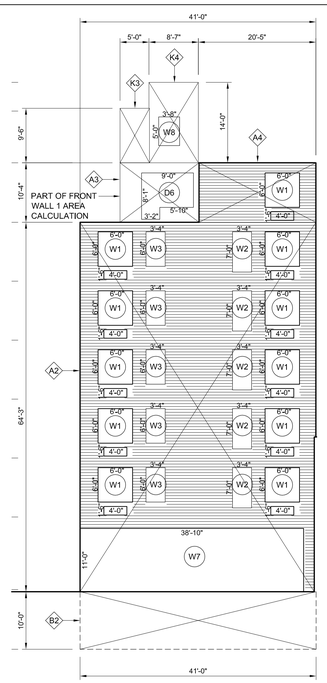
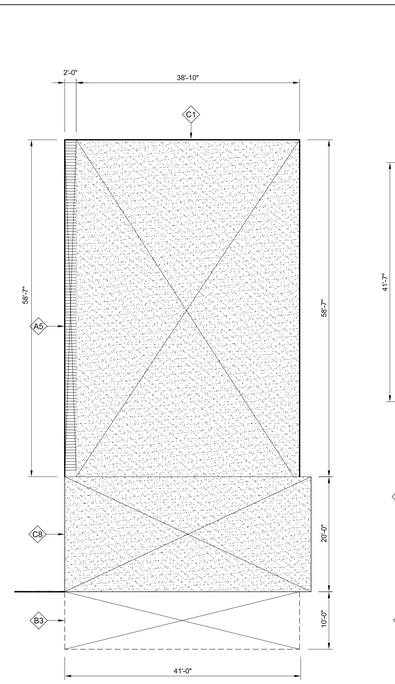
DEPT OF BLDGS 500991739 Job Number | ES246260144 Scan Code



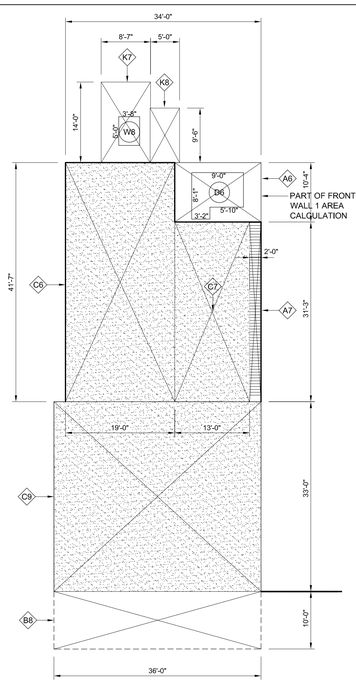
FRONT WALL 1 DIAGRAM @ DOWNING ST.
SCALE 3/32"=1'-0"



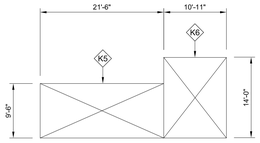
FRONT WALL 2 DIAGRAM @ FULTON ST.
SCALE 3/32"=1'-0"



SIDE WALL 1 DIAGRAM
SCALE 3/32"=1'-0"



SIDE WALL 2 DIAGRAM
SCALE 3/32"=1'-0"

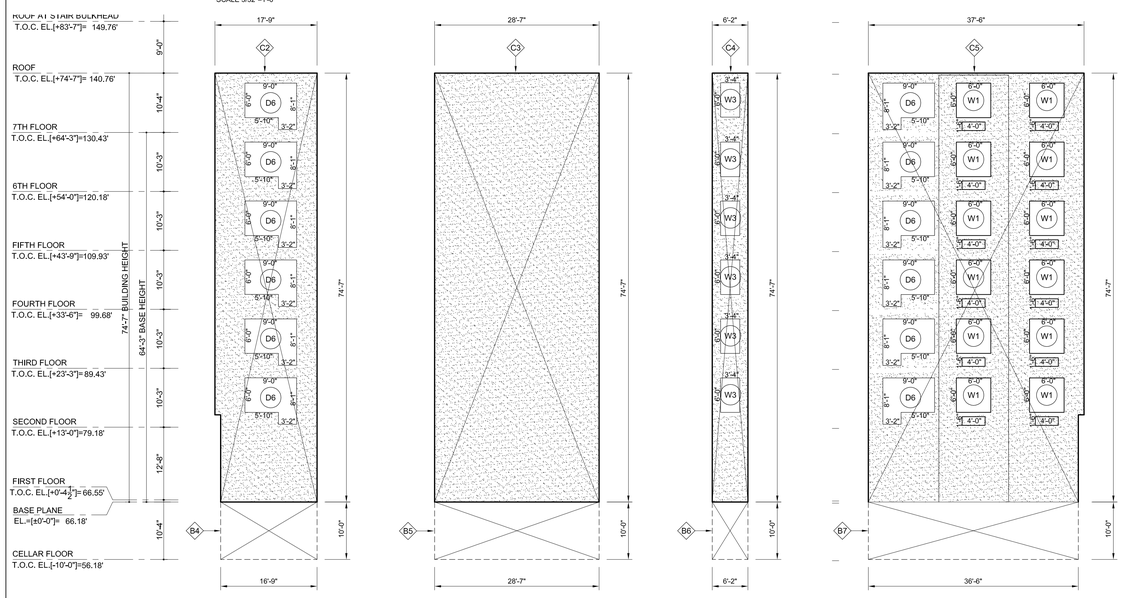


WALLS LEGEND

				WALL COMPOSITION
A	NEW CMU WALL TYPE		A	4" Brick Veneer
	UL DESIGN #U 902	2HR RATED		2" Polystyrene insulation
	U FACTOR (BTUF-ft2-hr)	= 0.0529		6" Conc Mass. Unit
	ACTUAL WALL THICKNESS	= 15"		Wall Batt Insulation R-11
ZR 12-10	ALLOWABLE DEDUCTION	= 7"		5/8" Gyp. Board
B	NEW BELOW GRADE FOUND. WALL		B	2" Polystyrene insulation
	U FACTOR (BTUF-ft2-hr)	= 0.0461		14" Concrete Aggregate
	ACTUAL WALL THICKNESS	= 14"		Voltex Membrane
ZR 12-10	ALLOWABLE DEDUCTION	= NA		Wall Batt Insulation R-11
	NO DEDUCTION TAKEN			5/8" Gyp. Board
C	NEW CMU WITH STUCCO WALL TYPE		C	1" Stucco
	UL DESIGN #U 906	2HR RATED		2" Polystyrene insulation
	U FACTOR (BTUF-ft2-hr)	= 0.0592		8" Conc Mass. Unit
	ACTUAL WALL THICKNESS	= 13"		Wall Batt Insulation R-11
ZR 12-10	ALLOWABLE DEDUCTION	= 5"		5/8" Gyp. Board
E	NEW METAL STUDS WALL TYPE		E	1" Stucco
	UL DESIGN #U 425	1HR RATE		1" Polyisocyanurate Insulation
	U FACTOR (BTUF-ft2-hr)	= 0.0578		6" Metal studs w/ R19 Insul
	ACTUAL WALL THICKNESS	= 9"		5/8" Gyp. Board
ZR 12-10	ALLOWABLE DEDUCTION	= 1"		Inside Air
K	NEW CMU WALL TYPE		K	1" Stucco
	UL DESIGN #U 906	2HR RATE		1 1/2" Polystyrene insulation
	U FACTOR (BTUF-ft2-hr)	= 0.0658		6" Conc Mass. Unit
	ACTUAL WALL THICKNESS	= 12"		Wall Batt Insulation R-11
ZR 12-10	ALLOWABLE DEDUCTION	= 4"		5/8" Gyp. Board
	NO DEDUCTION TAKEN			Inside Air

AREA CALCULATIONS SUMMARY

WALL TYPE	WALL	(A)	WALL	(B)	WALL	(C)	WALL	(K)	GLASS	U FACTOR /	OPAQUE	U FACTOR	LOUVERS
	OPAQUE WALL	ENTIRE WALL	OPAQUE WALL	ENTIRE WALL	OPAQUE WALL	ENTIRE WALL	OPAQUE WALL	ENTIRE WALL	AREA	SHGC	DOORS AREA		AREA
FRONT WALL 1	4,610.55	7,388.72	940.00	940.00	N/A	N/A	330.42	357.08	2,804.83	0.37 / 0.4	N/A		N/A
FRONT WALL 2	1,843.58	2,949.42	410.00	410.00	N/A	N/A	149.33	167.67	1,124.17	0.37 / 0.4	N/A		N/A
SIDE WALL 1	117.17	117.17	410.00	410.00	3,094.99	3,094.99	357.08	357.08	0.00	0.37 / 0.4	N/A		N/A
SIDE WALL 2	62.50	62.50	360.00	360.00	2384.33	2384.33	149.33	167.67	18.33	0.37 / 0.4	N/A		N/A
BACK WALL	N/A	N/A	880.00	880.00	5,361.33	6,712.50	N/A	N/A	1,351.17	0.37 / 0.4	N/A		N/A
TOTAL	**6,633.80**	**10,517.80**	**3,000.00**	**3,000.00**	**10,840.65**	**12,191.82**	**986.17**	**1,049.50**	**5,298.50**		**0.00**		**0.00**
		TOTAL											
ROOF AREA		6,349.90											
FLOOR AREAS		30,140.00											
BASEMENT		6,349.90											



BACK WALL DIAGRAM
SCALE 3/32"=1'-0"

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

FRONT WALL 1

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
FRONT WALL 1 TOTAL AREA CALC (Wa)					
A1	95' - 1" x 74' - 7" =	7091.63 S.F.			
A2	13' - 9" x 10' - 4" =	142.08 S.F.			
A3	15' - 0" x 10' - 4" =	155.00 S.F.		7388.72	WALL A
A4	10' - 11" x 14' - 0" =	152.83 S.F.			
A5	21' - 6" x 9' - 6" =	204.25 S.F.		357.08	WALL K
TOTAL Wa = A1 + A3 + A6 + K1 + K2			=	**7,745.80 S.F.**	
= 7,091.63 + 142.08 + 155.00 + 152.83 + 204.25					
FRONT WALL 1 FENESTRATION AREA (Fa)					
W1	5' - 10" x 7' - 0" +				
	4' - 0" x 1' - 6" =	46.83	46	2154.33	
W2	6' - 0" x 8' - 0" =	48.00	1	48.00	
W3	25' - 5" x 11' - 8" =	296.53	1	296.53	
W4	18' - 11" x 11' - 8" =	220.69	1	220.69	
D1	3' - 4" x 12' - 6" =	41.67	1	41.67	
D2	5' - 5" x 12' - 6" =	67.71	1	67.71	
D3	6' - 0" x 12' - 6" =	75.00	2	150.00	
D4	9' - 0" x 7' - 0" +				
	6' - 10" x 2' - 1" =	77.24	2	154.47	
TYPE A FENESTRATION AREA (Fa)			=	**3,133.40**	
OPAQUE WALL AREA CALCULATION (Oa)			=		
Wa - Fa =	7388.72 - 3133.40		=	**4,255.31**	
TYPE K FENESTRATION AREA (Fk)					
D4	3' - 4" x 8' - 0" =	26.67	3	26.67	
TYPE K FENESTRATION AREA (Fk)			=	**26.67**	
OPAQUE WALL AREA CALCULATION (Ok)			=		
Wk - Fk =	357.08 - 26.67		=	**330.42**	
TOTAL FENESTRATION AREA (Fa+Fk)			=	**3,160.07**	
TOTAL OPAQUE WALL AREA (Oa+Ok)			=	**4,585.73**	
FRONT WALL 1 FENESTRATION AREA (%)			=	**40.80%**	
=Fa / Wa x 100 = 3,160.07 / 7,745.80 x 100					
FRONT WALL 1 TYPE B BELOW GRADE AREA					
B1	94' - 0" x 10' - 0" =	940.00 S.F.			
TOTAL BELOW GRADE AREA			=	**940.00**	

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

FRONT WALL 2

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
FRONT WALL 2 TOTAL AREA CALC (Wa)					
A6	41' - 0" x 64' - 3" =	2634.25 S.F.			
A7	20' - 5" x 10' - 4" =	210.97 S.F.			
A8	10' - 1" x 10' - 4" =	104.19 S.F.		2949.42	WALL A
K3	5' - 0" x 9' - 6" =	47.50 S.F.			
K4	8' - 7" x 14' - 0" =	120.17 S.F.		167.67	WALL K
TOTAL Wa = A2 + A4 + A8 + K3 + K4			=	**3,117.08 S.F.**	
TYPE A FENESTRATION AREA (Fa)"					
W1	6' - 0" x 6' - 0" +				
	4' - 0" x 1' - 6" =	42.00	11	462.00	
W2	3' - 4" x 7' - 0" =	23.33	5	116.67	
W3	3' - 4" x 6' - 0" =	20.00	5	100.00	
W7	38' - 10" x 11' - 0" =	427.17	1	427.17	
TOTAL FENESTRATION AREA (Fa)			=	**1,105.83**	
OPAQUE WALL AREA CALCULATION (Oa)			=		
Wa - Fa =	2949.42 - 1105.83		=	**1,843.58**	
TYPE K FENESTRATION AREA (Fk)"					
W8	3' - 8" x 5' - 0" =	18.33	1	18.33	
TOTAL FENESTRATION AREA (Fk)			=	**18.33**	
OPAQUE WALL AREA CALCULATION (Ok)			=		
Wk - Fk =	167.67 - 18.33		=	**149.33**	
TOTAL FENESTRATION AREA (Fa+Fk)			=	**1,124.17**	
TOTAL OPAQUE WALL AREA (Oa+Ok)			=	**1,992.92**	
FRONT WALL 2 FENESTRATION AREA (%)			=	**36.06%**	
=Fa/ Wa x 100 = 1,124.17 / 3,117.08 x 100					
FRONT WALL 2 TYPE B BELOW GRADE AREA					
B2	41' - 0" x 10' - 0" =	410.00 S.F.			
TOTAL BELOW GRADE AREA			=	**410.00**	

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

SIDE WALL 1

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
SIDE WALL 1 TOTAL AREA CALC (Wc)					
A5	2' - 0" x 58' - 7" =	117.17 S.F.		117.17	WALL A
C1	38' - 10" x 58' - 7" =	2274.99 S.F.			
C2	41' - 0" x 20' - 0" =	820.00 S.F.		3094.99	WALL C
K5	21' - 6" x 9' - 6" =	204.25 S.F.			
K6	10' - 11" x 14' - 0" =	152.83 S.F.		357.08	WALL K
TOTAL Wc = A5 + C1 + K5 + K6					
= 117.17 + 2,274.99 + 204.25 + 152.83			=	**3,569.24 S.F.**	
SIDE WALL 1 FENESTRATION AREA (Fc)					
TOTAL FENESTRATION AREA (Fc)			=	**0.00**	
OPAQUE WALL AREA CALCULATION			=		
Wc - Fc =	3569.24 - 0.00		=	**3,569.24**	
SIDE WALL 1 FENESTRATION AREA (%)			=	**0.00%**	
=Fc / Wc x 100 = 0.00 / 3,569.24 x 100					
SIDE WALL 1 BELOW GRADE AREA (Bc)					
B3	41' - 0" x 10' - 0" =	410.00 S.F.			
TOTAL BELOW GRADE AREA (Bc)			=	**410.00**	

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

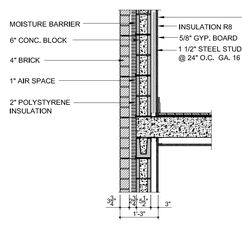
SIDE WALL 2

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
SIDE WALL 2 TOTAL AREA CALC (Wk)					
A6	2' - 0" x 31' - 3" =	62.50 S.F.		62.50	WALL A
C6	19' - 0" x 41' - 7" =	790.08 S.F.			
C7	13' - 0" x 31' - 3" =	406.25 S.F.			
C8	36' - 0" x 33' - 0" =	1188.00 S.F.		2384.33	WALL C
K7	8' - 7" x 14' - 0" =	120.17 S.F.			
K8	5' - 0" x 9' - 6" =	47.50 S.F.		167.67	WALL K
TOTAL Wk = A7 + C6 + C7 + K7 + K8					
= 62.50 + 790.08 + 406.25 + 120.17+ 47.50			=	**2,614.50 S.F.**	
SIDE WALL 2 FENESTRATION AREA (Fk)					
W8	3' - 8" x 5' - 0" =	18.33	1	18.33	
TOTAL FENESTRATION AREA (Fk)			=	**18.33**	
OPAQUE WALL AREA CALCULATION (Ok)			=		
Wk - Fk =	167.67 - 18.33		=	**149.33**	
SIDE WALL 2 FENESTRATION AREA (%)			=	**0.70%**	
=Fk / Wk x 100 = 18.33 / 2,614.50 x 100					
SIDE WALL 2 BELOW GRADE AREA					
B8	36' - 0" x 10' - 0" =	360.00 S.F.			
TOTAL BELOW GRADE AREA			=	**360.00**	

EXTERIOR WALL AND FENESTRATION AREA CALCULATIONS

REAR WALL

WALL/WIN. TYPE	DIMENSIONS	AREA	NUMBER OF UNITS	TOTAL AREA	REMARKS
REAR WALL TOTAL AREA CALC (Wc)					
C5	17' - 9" x 74' - 7" =	1323.85 S.F.			
C3	28' - 7" x 74' - 7" =	2131.84 S.F.			
C4	6' - 2" x 74' - 7" =	459.93 S.F.			
C5	37' - 6" x 74' - 7" =	2796.88 S.F.			
TOTAL Wc = C2 + C3 + C4 + C5			=	**6,712.50**	
= 1,323.85 + 2,131.84 + 459.93 + 2,796.88					
REAR WALL FENESTRATION AREA (Fc)					
W1	6' - 0" x 6' - 0" +				
	4' - 0" x 1' - 6" =	42.00	12	504.00	
W2	3' - 4" x 6' - 0" =	20.00	6	120.00	
D6	9' - 0" x 6' - 0" +				
	3' - 2" x 2' - 1" =	60.60	12	727.17	
TOTAL FENESTRATION AREA (Fc)				**1,351.17**	
OPAQUE WALL AREA CALCULATION (Oc)					
Wc - Fc =	6712.50 - 1351.17		=	**5,361.33**	
REAR WALL FENESTRATION AREA (%)					
=Fc / Wc x 100 = 1,351.17 / 6,712.50 x 100			=	**20.13%**	
REAR WALL BELOW GRADE AREA					
B4	16' - 9" x 10' - 0" =	167.50 S.F.			
B5	28' - 7" x 10' - 0" =	285.83 S.F.			
B6	6' - 2" x 10' - 0" =	61.67 S.F.			
B7	36' - 6" x 10' - 0" =	365.00 S.F.			
TOTAL BELOW GRADE AREA			=	**880.00**	



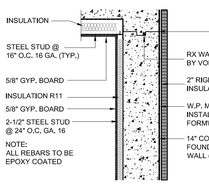
WALL TYPE A — 15" THICK — UL DESIGN #U 902 — 2HR RATED

U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
4" Brick Veneer	0.80	F-ft2-hr/BTU
1" Air space	0.97	F-ft2-hr/BTU
2" Polystyrene insulation	8.00	F-ft2-hr/BTU
6" Conc Mass. Unit	1.11	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**18.89**	**F-ft2-hr/BTU**
Total Resistance		
R Total =	18.89	F-ft2-hr/BTU

Overall Heat Transfer Coefficient

U Factor	=	**0.05294**	**BTU/F-ft2-hr**
Required by code	=	0.0900	T502.1.2
Code compliance	=	**41.18% Better than code**	



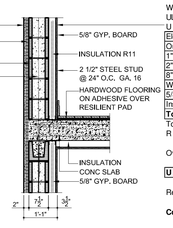
WALL TYPE B Foundation Wall

U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
2" Polystyrene insulation	8.00	F-ft2-hr/BTU
14" Concrete Aggregate	1.52	F-ft2-hr/BTU
Voltex Membrane	0.06	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**17.59**	**F-ft2-hr/BTU**
Total Resistance		
R Total =	17.59	F-ft2-hr/BTU

Overall Heat Transfer Coefficient

U Factor	=	**0.05685**	**BTU/F-ft2-hr**



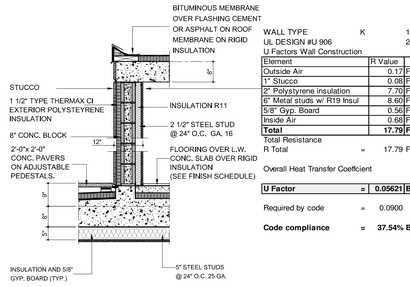
WALL TYPE C — 13" THICK — UL DESIGN #U 906 — 2HR RATED

U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
1" Stucco	0.08	F-ft2-hr/BTU
2" Polystyrene insulation	7.70	F-ft2-hr/BTU
8" Conc Mass. Unit	1.11	F-ft2-hr/BTU
Wall Batt Insulation R-11	6.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**16.90**	**F-ft2-hr/BTU**
Total Resistance		
R Total =	16.90	F-ft2-hr/BTU

Overall Heat Transfer Coefficient

U Factor	=	**0.05917**	**BTU/F-ft2-hr**
Required by code	=	0.0900	T502.1.2
Code compliance	=	**34.25% Better than code**	



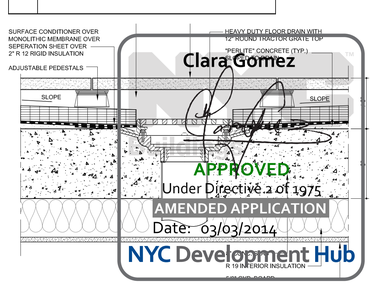
WALL TYPE K — 12" THICK — UL DESIGN #U 906 — 2HR RATED

U Factors Wall Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
1" Stucco	0.08	F-ft2-hr/BTU
2" Polystyrene insulation	7.70	F-ft2-hr/BTU
6" Metal studs w/ R19 Insul	8.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**17.79**	**F-ft2-hr/BTU**
Total Resistance		
R Total =	17.79	F-ft2-hr/BTU

Overall Heat Transfer Coefficient

U Factor	=	**0.05621**	**BTU/F-ft2-hr**
Required by code	=	0.0900	T502.1.2
Code compliance	=	**37.54% Better than code**	



ROOF CONSTRUCTION

U Factors Roof Construction

Element	R Value	
Outside Air	0.17	F-ft2-hr/BTU
2" Pavers	0.08	F-ft2-hr/BTU
2" Air Gap (min.)	0.97	F-ft2-hr/BTU
2" Rigid Board Insulation	12.00	F-ft2-hr/BTU
2" Concrete	1.04	F-ft2-hr/BTU
R-19 Batt Insulation	8.60	F-ft2-hr/BTU
5/8" Gyp. Board	0.56	F-ft2-hr/BTU
Inside Air	0.68	F-ft2-hr/BTU
Total	**24.10**	**F-ft2-hr/BTU**
Total Resistance		
R Total =	24.10	F-ft2-hr/BTU

Overall Heat Transfer Coefficient

U Factor	=	**0.04149**	**BTU/F-ft2-hr**
Required by code	=	0.0480	T502.1.2
Code compliance	=	**13.55% Better than c**	

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

A SECTION DETAIL @ NEW WALL A

B SECTION DETAIL @ NEW WALL B

C SECTION DETAIL @ NEW WALL C

K SECTION DETAIL @ BULKHEAD
SCALE 1/2"=1'-0"

R SECTION DETAIL @ NEW ROOF

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 232-2266 F: (718) 232-0274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York, NY 10001 212.268.5000 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EXTERIOR WALL AREA CALCULATIONS SCALE: AS SHOWN	1. ISSUED 06-18-2013 2. REV. 12-11-2013 3. 4.	EN-001-00

REGISTERED ARCHITECT MARK ISSAC No. 018258 STATE OF NEW YORK

NAME: S:\ALLWORKS\1035 FULTON STREET\PRES\ARCHITECTURAL\2013-12-09 FILING SET NO DOUBLE RETAIL\EN001-002.DWG DATE: DEC 17, 2013 TIME: 5:58 PM

COMcheck Software Version 3.9.2

Envelope Compliance Certificate

2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: **New Construction**
Project Title : 1035 Fulton Street

Construction Site:
1035 Fulton Street
Brooklyn, NY 11238 #

Owner/Agent:
FULTON HILL CORNER 60-43 Maspeth Avenue
Maspeth, NY 11378
718-416-1111

Designer/Contractor:
Ramy Isaac
Issac & Stern Architects
25 West 31st Street
New York, NY 10001
212-268-5600

Section 2: General Information

Building Location (for weather data): **Kings, New York**
Climate Zone: **4a**
Building Space Conditioning Type(s): **Nonresidential, Residential**
Vertical Glazing / Wall Area Pct: **22%**

Activity Type(s)	Floor Area
Multifamily	30140
Retail	6350

Section 3: Requirements Checklist

Envelope PASSES: Design 6% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Other Insulation Above Deck, Residential (b)	6350	---	---	0.028	0.048
Ext. Front Wall 1: Other Mass Wall, Heat capacity 1.0, Residential (b)	7746	---	---	0.054	0.064
Window Front Wall 1: Metal Frame:Double Pane, Clear, SHGC 0.40, Residential	2805	---	---	0.370	0.550
Ext. Front Wall 2: Other Metal Building Wall, Residential (b)	3117	---	---	0.054	0.084
Window Front Wall 2: Metal Frame with Thermal Break:Double Pane, Clear, SHGC 0.40, Residential	1124	---	---	0.370	0.550
Ext. Side Wall 1: Other Mass Wall, Heat capacity 1.0, Residential (b)	3569	---	---	0.059	0.064
Ext. Side Wall 2: Other Mass Wall, Heat capacity 1.0, Residential (b)	2815	---	---	0.059	0.064
Window 4: Metal Frame Double Pane, Clear, SHGC 0.40, Residential	18	---	---	0.370	0.550
Ext. Rear Wall: Other Mass Wall, Heat capacity 1.0, Residential (b)	6713	---	---	0.059	0.064
Window Rear Wall: Metal Frame:Double Pane, Clear, SHGC 0.40, Residential	1351	---	---	0.370	0.550
Basement Wall 1: Other Basement Wall, Normal Density, Furring: Metal, Wall Ht 9.0, Depth B.G. 9.0, Heat capacity 1.0, Residential (b)	3000	---	---	0.046	0.108

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(b) "Other" components require supporting documentation for proposed U-factors.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- ☐ 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- ☐ 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 5. "Other" components have supporting documentation for proposed U-Factors.
- ☐ 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- ☐ 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
- ☐ 8. Cargo doors and loading dock doors are weather sealed.
- ☐ 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- ☐ 10. Building entrance doors have a vestibule equipped with self-closing devices.
  Exceptions:
  - ☐ Building entrances with revolving doors.
  - ☐ Doors not intended to be used as a building entrance.
  - ☐ Doors that open directly from a space less than 3000 sq. ft. in area.
  - ☐ Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
  - ☐ Doors opening directly from a sleeping/dwelling unit.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

When a Registered Design Professional has stamped and signed this page, they are attesting that to the best of his/her knowledge, belief, and professional judgment, such plans or specifications are in compliance with this Code.

Name - Title Signature Date

COMcheck Software Version 3.9.2

Exterior Lighting Compliance Certificate

2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: **New Construction**
Project Title : 1035 Fulton Street
Exterior Lighting Zone: **2 (Residentially zoned area)**

Construction Site:
1035 Fulton Street
Brooklyn, NY 11238 #

Owner/Agent:
FULTON HILL CORNER 60-43 Maspeth Avenue
Maspeth, NY 11378
718-416-1111

Designer/Contractor:
Ramy Isaac
Issac & Stern Architects
25 West 31st Street
New York, NY 10001
212-268-5600

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Entry (Main entry)	11 ft of door width	20	Yes	220	50
			Total Tradable Watts* =	220	50
			Total Allowed Watts =	220	
			Total Allowed Supplemental Watts** =	600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Entry (Main entry 11 ft of door width): Tradable Wattage HID 1: Metal Halide: Standard:	1	1	50	50
			Total Tradable Proposed Watts =	50

Section 4: Requirements Checklist

Lighting Wattage:

- ☐ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
  Compliance: Passes.

Controls, Switching, and Wiring:

- ☐ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
- ☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.
- ☐ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
- ☐ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:

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- ☐ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.
  Exceptions:
  - ☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.
  - ☐ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.
  - ☐ Emergency lighting that is automatically off during normal building operation.
  - ☐ Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

COMcheck Softwa

Interior Lighting Compliance Certificate

2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: **New Construction**
Project Title : 1035 Fulton Street

Construction Site:
1035 Fulton Street
Brooklyn, NY 11238 #

Owner/Agent:
FULTON HILL CORNER 60-43 Maspeth Avenue
Maspeth, NY 11378
718-416-1111

Designer/Contractor:
Ramy Isaac
Issac & Stern Architects
25 West 31st Street
New York, NY 10001
212-268-5600

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Multifamily	30140	0.7	21098
Retail	6350	1.5	9525
		Total Allowed Watts =	30623

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Multifamily (30140 sq.ft.)				
Linear Fluorescent 1: 48" T8 32W: Electronic:	2	34	64	2176
Halogen 1: Halogen MR-16 50W:	1	49	50	2450
Compact Fluorescent 1 copy 1: Twin Tube 24/26/27W: Electronic:	1	25	54	1350
Halogen 2: Halogen MR-16 50W:	1	15	50	750
Compact Fluorescent 2: Quad 4-pin 13W: Electronic:	2	47	26	1222
Compact Fluorescent 3: Triple 4-pin 26W: Electronic:	1	138	26	3588
Retail (6350 sq.ft.)				
Linear Fluorescent 2: 48" T8 32W: Electronic:	2	17	64	1088
			Total Proposed Watts =	12624

Section 4: Requirements Checklist

Interior Lighting PASSES: Design 59% better than code

Lighting Wattage:

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
30623	12624	YES

Controls, Switching, and Wiring:

- ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
- ☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.
  Exceptions:
  - ☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
  - ☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.
- ☐ 4. Independent controls for each space (switch/occupancy sensor).
  Exceptions:
  - ☐ Areas designated as security or emergency areas that must be continuously illuminated.
  - ☐ Lighting in stairways or corridors that are elements of the means of egress.
- ☐ 5. Master switch at entry to hotel/motel guest room.
- ☐ 6. Individual dwelling units separately metered.
- ☐ 7. Medical task lighting or artihistory display lighting (allowed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
- ☐ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.
  Exceptions:
  - ☐ Only one luminaire in space.
  - ☐ An occupant-sensing device controls the area.
  - ☐ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
  - ☐ Areas that use less than 0.6 Watts/sq.ft.
- ☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
  Exceptions:
  - ☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.
- ☐ 10. Protocol/astronomical time switch on exterior lights.
  Exceptions:
  - ☐ Lighting intended for 24 hour use.
- ☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
  Exceptions:
  - ☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

COMcheck Software Version 3.9.2

Mechanical Compliance Certificate

2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: **New Construction**
Project Title : 1035 Fulton Street

Construction Site:
1035 Fulton Street
Brooklyn, NY 11238 #

Owner/Agent:
FULTON HILL CORNER 60-43 Maspeth Avenue
Maspeth, NY 11378
718-416-1111

Designer/Contractor:
Ramy Isaac
Issac & Stern Architects
25 West 31st Street
New York, NY 10001
212-268-5600

Section 2: General Information

Building Location (for weather data): **Kings, New York**
Climate Zone: **4a**

Section 3: Mechanical Systems List

Quantity	System Type & Description
1	HVAC System AC-1 (Multiple-Zone) : Rooftop Packaged Heat Pump Heating Mode: Capacity = 250 kBtu/h, Proposed Efficiency = 3.30 COP, Required Efficiency = 3.30 COP Cooling Mode: Capacity = 119 kBtu/h, Air Economizer Proposed Efficiency = 12.50 EER, Required Efficiency = 11.00 EER Fan System: None
1	HVAC System: AC-2 (Multiple-Zone) : Rooftop Packaged Heat Pump Heating Mode: Capacity = 350 kBtu/h, Proposed Efficiency = 3.20 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 220 kBtu/h, Air Economizer Proposed Efficiency = 10.60 EER, Required Efficiency = 10.60 EER Fan System: None
35	HVAC System RAC-1.2 (Single Zone) : Packaged Terminal Heat Pump Heating Mode: Capacity = 13 kBtu/h, Proposed Efficiency = 3.10 COP, Required Efficiency = 2.85 COP Cooling Mode: Capacity = 14 kBtu/h, Proposed Efficiency = 9.80 EER, Required Efficiency = 9.40 EER Fan System: None
44	HVAC System RAC-1.0 (Single Zone) : Packaged Terminal Heat Pump Heating Mode: Capacity = 11 kBtu/h, Proposed Efficiency = 3.20 COP, Required Efficiency = 2.89 COP Cooling Mode: Capacity = 12 kBtu/h, Proposed Efficiency = 10.60 EER, Required Efficiency = 9.74 EER Fan System: None
1	HVAC System CU-1 (Multiple-Zone) : Split System Heat Pump Heating Mode: Capacity = 53 kBtu/h, Proposed Efficiency = 9.10 HSPF, Required Efficiency = 7.70 HSPF Cooling Mode: Capacity = 48 kBtu/h, Proposed Efficiency = 15.10 SEER, Required Efficiency = 13.00 SEER Fan System: None
36	Water Heater HWH-1: Electric Storage Water Heater, Capacity: 80 gallons w/ Circulation Pump

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	Proposed Efficiency: 0.86 EF, Required Efficiency: 0.82 EF
1	Water Heater HWH-2: Electric Storage Water Heater, Capacity: 10 gallons No minimum efficiency requirement applies

Section 4: Requirements Checklist

Requirements Specific To: HVAC System AC-1 :

- ☐ 1. Equipment minimum efficiency: Heat Pump: 3.30 COP 11.00 EER
- ☐ 2. Minimum one temperature control device per zone
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Systems serving more than one zone must be VAV systems
  Exception(s):
  - ☐ Where pressure relationships must be maintained
  - ☐ Zones or supply air systems with at least 75% of reheating/recooling energy site recovered or site solar
  - ☐ Zones with humidity requirements for special processes
  - ☐ Zones with cfm <300 and flow rate <10% of total design flow rate
  - ☐ Outside air needed to meet IMC Chapter 4
- ☐ 6. Dual-duct VAV mixing boxes installed to minimize mixing
- ☐ 7. Controls capable of resetting supply air temp (SAT) by 25% of SAT-room temp difference
  Exception(s):
  - ☐ Systems that prevent reheating, recooling or mixing of heated and cooled supply air
  - ☐ Seventy five percent of the energy for reheating is from site-recovered or site solar energy sources.
  - ☐ Zones with peak supply air quantities of 300 cfm (142 L/s) or less.
- ☐ 8. VAV fans with static pressure sensors are placed in a position such that the controller setpoint is no greater than one-third the total design fan static pressure. If placement results in the sensor being located downstream of major duct splits, multiple sensors are installed in each major branch.
  Exception(s):
  - ☐ Systems with DDC of individual zone boxes reporting to the central control panel and reset of static pressure setpoint based on the zone requiring the most pressure.
- ☐ 9. Systems with DDC of individual zone boxes reporting to the central control panel has static pressure setpoint reset based on the zone requiring the most pressure.

Requirements Specific To: HVAC System AC-2 :

- ☐ 1. Equipment minimum efficiency: Heat Pump: 3.20 COP 10.60 EER
- ☐ 2. Minimum one temperature control device per zone
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Systems serving more than one zone must be VAV systems
  Exception(s):
  - ☐ Where pressure relationships must be maintained
  - ☐ Zones or supply air systems with at least 75% of reheating/recooling energy site recovered or site solar
  - ☐ Zones with humidity requirements for special processes
  - ☐ Zones with cfm <300 and flow rate <10% of total design flow rate
  - ☐ Outside air needed to meet IMC Chapter 4
- ☐ 6. Dual-duct VAV mixing boxes installed to minimize mixing
- ☐ 7. Controls capable of resetting supply air temp (SAT) by 25% of SAT-room temp difference
  Exception(s):
  - ☐ Systems that prevent reheating, recooling or mixing of heated and cooled supply air
  - ☐ Seventy five percent of the energy for reheating is from site-recovered or site solar energy sources.
  - ☐ Zones with peak supply air quantities of 300 cfm (142 L/s) or less.
- ☐ 8. VAV fans with static pressure sensors are placed in a position such that the controller setpoint is no greater than one-third the total design fan static pressure. If placement results in the sensor being located downstream of major duct splits, multiple sensors are installed in each major branch.
  Exception(s):
  - ☐ Systems with DDC of individual zone boxes reporting to the central control panel and reset of static pressure setpoint based on the zone requiring the most pressure.

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- ☐ 9. Systems with DDC of individual zone boxes reporting to the central control panel has static pressure setpoint reset based on the zone requiring the most pressure.

Requirements Specific To: HVAC System RAC-1.2 :

- ☐ 1. Equipment minimum efficiency: Heat Pump: 2.85 COP 9.40 EER

Requirements Specific To: HVAC System RAC-1.0 :

- ☐ 1. Equipment minimum efficiency: Heat Pump: 2.89 COP 9.74 EER

Requirements Specific To: HVAC System CU-1 :

- ☐ 1. Equipment minimum efficiency: Heat Pump: 7.70 HSPF 13.00 SEER
- ☐ 2. Minimum one temperature control device per zone
- ☐ 3. Systems serving more than one zone must be VAV systems
- ☐ 4. Controls capable of resetting supply air temp (SAT) by 25% of SAT-room temp difference
  Exception(s):
  - ☐ Systems that prevent reheating, recooling or mixing of heated and cooled supply air
  - ☐ Seventy five percent of the energy for reheating is from site-recovered or site solar energy sources.
  - ☐ Zones with peak supply air quantities of 300 cfm (142 L/s) or less.
- ☐ 5. VAV fans with static pressure sensors are placed in a position such that the controller setpoint is no greater than one-third the total design fan static pressure. If placement results in the sensor being located downstream of major duct splits, multiple sensors are installed in each major branch.
  Exception(s):
  - ☐ Systems with DDC of individual zone boxes reporting to the central control panel and reset of static pressure setpoint based on the zone requiring the most pressure.
- ☐ 6. Systems with DDC of individual zone boxes reporting to the central control panel has static pressure setpoint reset based on the zone requiring the most pressure.

Requirements Specific To: Water Heater HWH-1 :

- ☐ 1. Water heating equipment meets minimum efficiency requirements: Electric Water Heater efficiency: 0.82 EF (333 SL, Btu/h (if > 12 kW))
- ☐ 2. All piping in circulating system insulated
- ☐ 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
- ☐ 4. Automatic time control of heat tapes and recirculating systems present
- ☐ 5. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

Requirements Specific To: Water Heater HWH-2 :

- ☐ 1. Water heating equipment meets minimum efficiency requirements: No efficiency requirements for water heater with storage capacity less than 20 gallons.
- ☐ 2. First 8 ft of outlet piping is insulated
- ☐ 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
- ☐ 4. Heat traps provided on inlet and outlet of storage tanks

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- ☐ 1. Plant equipment and system capacity no greater than needed to meet loads
  Exception(s):
  - ☐ Standby equipment automatically off when primary system is operating
  - ☐ Multiple units controlled to sequence operation as a function of load
- ☐ 2. Minimum one temperature control device per system
- ☐ 3. Minimum one humidity control device per installed humidification/dehumidification system
- ☐ 4. Load calculations per ASHRAE/ACCA Standard 183.
- ☐ 5. Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
  Exception(s):
  - ☐ Continuously operating zones
- ☐ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum
- ☐ 7. R-5 supply and return air duct insulation in unconditioned spaces
  R-8 supply and return air duct insulation outside the building
  R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
  Exception(s):
  - ☐ Ducts located within equipment
  - ☐ Ducts with interior and exterior temperature difference not exceeding 15°F.
- ☐ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment

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- ☐ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
- ☐ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
  Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in.
  Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
  Exception(s):
  - ☐ Piping within HVAC equipment.
  - ☐ Fluid temperatures between 55 and 105°F.
  - ☐ Fluid not heated or cooled with renewable energy.
  - ☐ Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
  - ☐ Runouts <4 ft in length.
- ☐ 11. Operation and maintenance manual provided to building owner
- ☐ 12. Balancing devices provided in accordance with IMC (2006) 603.17
- ☐ 13. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
  Exception(s):
  - ☐ Systems with heat recovery.
  - ☐ Multiple-zone systems without DDC of individual zones communicating with a central control panel.
  - ☐ Systems with a design outdoor airflow less than 1200 cfm.
  - ☐ Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
- ☐ 14. Total cooling capacity without economizers must be less than 480 kBtu/h. This project lists 1052 kBtu/h capacity without economizers.
- ☐ 15. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
  Exception(s):
  - ☐ Gravity dampers acceptable in buildings <3 stories
- ☐ 16. Automatic controls for freeze protection systems present
- ☐ 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
  Exception(s):
  - ☐ Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
  - ☐ Systems serving spaces that are heated and not cooled to less than 60°F.
  - ☐ Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
  - ☐ Heating systems in climates with less than 3600 HDD.
  - ☐ Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
  - ☐ Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
  - ☐ Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Section 6: Post Construction Compliance Statement

- ☐ HVAC record drawings of the actual installation, system capacities, operation information, and performance data for each equipment provided to the owner.
- ☐ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
- ☐ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name Signature Date

TABLE II – PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – COMMERCIAL BUILDINGS

	Inspection/Test	Frequency (minimum)	Reference Standard (See ECC Chapter 10) or Other Criteria	ECC or Other Citation
IIA	**Envelope Inspections**			
IIA1	**Protection of exposed foundation insulation:** Insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of slab-on-grade floors.	As required during foundation work and prior to backfill	Approved construction documents	303.2.1; ASHRAE 90.1 – 5.8.1.7
IIA2	**Insulation placement and R-values:** Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected.	As required to verify Continuous enclosure while walls, ceilings and floors are open	Approved construction documents	303.1, 303.1.1, 303.1.2, 502.1, 502.2; ASHRAE 90.1 –5.5, 5.6 or 11; 5.8.1
IIA3	**Fenestration thermal values and product ratings:** U-factors and SHGC values of installed fenestration shall be visually inspected for conformance with the U-factors and SHGC values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables 303.1.3(1), (2) and (3). Where ASHRAE 90.1 is used, visible light transmittance values shall also be verified.	As required during installation	Approved construction documents; NFRC 100, NFRC 200	303.1, 303.1.3, 502.3;
IIA4	**Fenestration and door assembly product ratings for air leakage:** Windows and sliding or swinging door assemblies, except site-built windows and/or doors, shall be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports shall be reviewed to verify that the installed assembly complies with the standard cited in the approved plans.	As required during installation; prior to final construction inspection	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	502.4; ASHRAE 90.1 –5.4.3.2
IIA5	**Fenestration areas:** Dimensions of windows, doors and skylights shall be verified by visual inspection.	Prior to final inspection	Approved construction documents	502.3; ASHRAE 90.1 – 5.5.4, 5.6 or 11
IIA6	**Sealing:** Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector shall visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or that the building is tested and meets the requirements of the standard, in accordance with the standard(s) cited.	As required during construction	Approved construction documents; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283.	502.4.3, 502.4.7; ASHRAE 90.1 – 5.4.3.1
IIA7	**Projection factors:** Where the energy analysis utilized a projection factor > 0, the projection dimensions of overhangs, eaves or permanently attached shading devices shall be verified for conformance with approved plans by visual inspection.	Prior to final construction inspection	Approved construction documents, including energy analysis	502.3; ASHRAE 90.1 – 5.5.4, 5.6 or 11
IIA8	**Loading dock weatherseals:** Weatherseals at loading docks shall be visually verified.	Prior to final construction inspection	Approved construction documents	502.4.5; ASHRAE 90.1 – 5.4.3.3
IIA9	**Building entrance vestibules:** Required entrance vestibules shall be visually inspected for proper operation.	Prior to final construction inspection	Approved construction documents	502.4.6; ASHRAE 90.1 – 5.4.3.4
IIC	**Electrical Power and Lighting Systems**			
IIC1	**Electrical metering:** The presence and operation of individual meters or other means of monitoring individual apartments shall be verified by visual inspection for all apartments.	Prior to final electrical and construction inspection	Approved construction documents	505.7
IIC2	**Lighting in dwelling units:** Lamps in permanently installed lighting fixtures shall be visually inspected to verify compliance with high-efficacy requirements.	Prior to final electrical and construction inspection	Approved construction documents	505.5.3
IIC3	Interior lighting power: Installed lighting shall be verified for compliance with the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers.	Prior to final electrical and construction inspection	Approved construction documents	505.5; ASHRAE 90.1 –9.1, 9.2, 9.5, 9.6; 1RCNY §101-07(c)(3)(vi)(C)4
IIC4	Exterior lighting: Installed lighting shall be verified for compliance with source efficacy and/or the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	505.6; ASHRAE 90.1 – 9.4.4, 9.4.5; 1RCNY §101-07(c)(3)(vi)(C)4
IIC5	**Lighting controls:** Each type of required lighting controls, including: -occupant sensors -manual interior lighting controls -light-reduction controls -automatic lighting shut-off -daylight zone controls -sleeping unit controls -exterior lighting controls shall be verified by visual inspection and tested for functionality and proper operation.	Prior to final electrical and construction inspection	Approved construction documents, including control system narratives	505.2, 505.2.2.2; ASHRAE 90.1 – 9.4.1, 9.4.1.2 (as modified by section ECC A102)
IIC6	**Exit signs:** Installed exit signs shall be visually inspected to verify that the label indicates that they do not exceed maximum permitted wattage.	Prior to final electrical and construction inspection	Approved construction documents	505.4; ASHRAE 90.1 – 9.4.3
IIC7	**Tandem wiring:** Tandem wiring shall be tested for functionality.	Prior to final electrical and construction inspection	Approved construction documents	505.3; ASHRAE 90.1 – 9.4.2
IIC8	**Electric motors (including but not limited to fan motors):** Where required by the construction documents for energy code compliance, motor listing or labels shall be verified by visual inspection to verify that they comply with the respective energy requirements in the construction documents.	Prior to final electrical and construction inspection	Approved construction documents	503.2.10; ASHRAE 90.1 – 10.4
IID	**Other**			
IID1	**Maintenance information:** Maintenance manuals for mechanical, electrical and plumbing equipment and systems shall be provided to the owner. Labels required for such equipment or systems shall be in place.	Prior to signoff or issuance of Certificate of Occupancy	Approved construction documents, including electrical drawings where applicable; ASHRAE Guideline 4: Preparation of Operating and	303.3, 503.2.9.3; ASHRAE 90.1 – 4.2.2.3, 6.7.2.2, 8.7.2

Clara Gomez
APPROVED
Under Directive 14 of 1975
AMENDED APPLICATION
NYC Development Hub

PROFESSIONAL STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY. USING CHAPTER 5.

PROGRESS DRAWINGS IN PROCESS OF COORDINATION

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	DRAWING NO:
FULTON HILL CORNER LLC 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-3266 F: (718) 332-3274 E: tlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ENERGY COMPLIANCE REPORT SCALE: AS SHOWN	1. ISSUED: 06-19-2013 2. REV.: 12-11-2013 3. 4.	EN-002-00

DEPT OF BLDGS 520991739 Job Number
E350520042 Scan Code

GENERAL NOTES

1. THE STRUCTURAL PLANS AND SPECIFICATIONS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK, LATEST EDITION.
2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK, LATEST EDITION AND ALL APPLICABLE FEDERAL AND STATE CODES, STANDARDS, REGULATIONS, AND LAWS.
3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMIT.
4. WORK NOT INDICATED ON PART OF THE DRAWINGS BUT REASONABLE IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
5. IF ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.
7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITIES LINES FROM ANY DAMAGE.
8. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. DRAWINGS ARE NOT TO BE SCALED.
10. ALL SHORING AND BRACING WORK SHALL BE DESIGNED AND FILED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR.
11. NYC BUILDING DEPARTMENT FORMS TR-1 & PW-1 WILL BE FILED BY SUPERVISING ENGINEER OF CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
12. ITEMS REQUIRED CONTROLLED INSPECTION ARE: STABILITY, SHOP AND FIELD WELDS, HS BOLTS AND SHORING. SHORING CONTROLLED INSPECTION SHALL BE PROVIDED BY A LICENSED NEW YORK STATE ENGINEER RETAINED BY CONTRACTOR.

FOUNDATION NOTES

1. SPREAD FOOTINGS WITH BOTTOM ELEVATION BELOW 10 FT. ARE DESIGNED USING AN ALLOWABLE BEARING VALUE OF 3-T/SF AS PER REPORT PREPARED BY SOIL MECHANICS DRILLING CORP., DATED FEB. 7, 2013.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT WHEN THE EXCAVATION HAS BEEN STARTED SO THAT GROUND WATER CONDITION CAN BE REVIEWED.
3. NO BACKFILLING AGAINST FOUNDATION WALLS IS TO BE DONE UNTIL AFTER THE SUPERSTRUCTURE IS IN PLACE, UNLESS ADEQUATE BRACING IS INSTALLED PRIOR TO BACKFILLING.
4. WHERE ELEVATIONS CHANGE, FOOTINGS SHALL BE STEPPED ONE VERTICAL TO TWO HORIZONTAL EXCEPT AS OTHERWISE SHOWN. MAXIMUM STEP TO BE 1'-6".
5. CONSTRUCTION JOINTS IN CONCRETE FOUNDATION WALLS, INTERIOR AND EXTERIOR SHALL BE PLACED NOT MORE THAN 50 FEET APART. LOCATION OF JOINTS SHALL BE SHOWN ON DRAWINGS OR APPROVED BY THE ENGINEER. SECTIONS OF WALLS SHALL BE POURED ALTERNATELY.
6. ALL WALL AND PIERFOOTINGS SHALL BE 12" THICK AND PROJECT 6" BEYOND ALL FACES OF WALLS AND PIERS UNLESS NOTED OTHERWISE.
7. LABS ON GROUND SHALL BE POURED IN A CHECKER BOARD PATTERN WITH A MAXIMUM AREA OF 1600 SQUARE FEET. JOINTS SHALL BE KEYED AND REINFORCEMENT CONTINUOUS.
8. WHERE FILL IS REQUIRED UNDER SLAB ON GROUND, IT SHALL BE COMPOSED OF WELL GRADED MATERIAL CONFORMING TO JOB SPECIFICATIONS, PLACED IN 6" LAYERS; EACH LAYER TO BE MECHANICALLY COMPACTED TO 95 MOISTURE CONTENT AS DETERMINED BY PROCTOR TESTS. COMPACTION OF SUBGRADE TO BE VERIFIED IN FIELD BY QUALIFIED SOILS LAB REPRESENTATIVE DESIGNATED BY OWNER. ALL COMPACTION TO BE PER ASTM D 1557 AND AASHTO DESIGNATION T-180, METHOD 'C'.
9. FOOTING SUBGRADE IS SUBJECT TO INSPECTION BY THE SOILS ENGINEER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.
11. METHODS EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW YORK.
12. GROUND WATER TABLE STARTS AT 65 FEET BELOW GROUND SURFACE.
13. IF DE-WATERING INTO A NEW YORK CITY STORM/SEWER DRAIN IS REQUIRED DURING THE PROJECT, A NEW YORK CITY DEPARMENT SEWER DISCHARGE PERMIT WILL BE OBTAINED PRIOR TO THE START OF DE-WATERING ACTIVITIES.

REINFORCED CONCRETE NOTES

1. 1. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM TO ACI-318-08 "AMERICAN CONCRETE INSTITUTE, BUILDING CODE FOR REINFORCED CONCRETE." DETAILS SHALL BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS OTHERWISE NOTED ON THE DRAWINGS AND THE PROVISIONS OF THE NEW YORK CITY BUILDING CODE.
2. 2.CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS U.O.N. ON PLAN AND SHALL BE NORMAL WEIGHT CONCRETE.
   i) FOOTINGS AND FOUNDATION WALLS: 5000 PSI.
   ii) FOOTING FOR SHEER WALLS: 5000
   iii) FLAT PLATE SLAB, BEAMS, SHEAR WALLS: 5000 PSI
   iv) COLUMNS: 5000 PSI
3. ALL EXPOSED CONCRETE SHALL HAVE AN AIR ENTRAINING AGENT.
4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CHAIR OR LIFT WIRE FABRIC DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB.
6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
7. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWING WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS. ALL REINFORCING BARS SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE SCHEDULE ON DRAWING S-14. LAP WALL TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN. LAP WALL BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT. LAP INSIDE FACE WALL VERTICAL REINFORCEMENT AT SUPPORT. LAP OUTSIDE FACE VERTICAL WALL REINFORCEMENT AT MID HEIGHT OF WALL. UNLESS OTHERWISE NOTED TERMINATE CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.
8. MINIMUM CONCRETE COVER SHALL BE 3/4 INCH FOR SLABS, 1 INCH FOR WALLS AND 1-1/2 INCHES FOR COLUMNS. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 1 INCH FOR SLABS ON GRADE AND WALLS. ALL CONCRETE EXPOSED TO WEATHER OR EARTH SHALL HAVE MINIMUM CONCRETE COVER OF 2 INCHES FOR BARS LARGER THAN #5, 1-1/2 INCHES FOR #5 BARS OR SMALLER. FOR ALL CONCRETE CAST AGAINST EARTH PROVIDE 3 INCHES COVER. ALL CONCRETE PLACED AGAINST PERMANENT SHEETING SHALL HAVE 4 INCHES COVER.
9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318, CHAPTER 6.4. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR THE STRUCTURAL ENGINEER'S REVIEW.
10. 10.CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING INTENDED PLACEMENT SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT FOR APPROVAL. WALL CONSTRUCTION JOINTS SHALL BE LOCATED SO AS TO PROVIDE A 60 FOOT MAXIMUM LENGTH OF CONCRETE PLACEMENT.
11. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER AND SHALL BE LOCATED AT LEAST EIGHT FEET FROM ANY COLUMN LINE OR WALL OPENING FOR FOUNDATION WALLS.
12. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
13. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
14. THE GENERAL CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE.
15. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4 INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS.
16. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS ETC. AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
17. FOR LOCATION OF FLOOR DRAINS, CURBS, CONCRETE PADS AND FLOOR DEPRESSIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. ALL CONCRETE PADS AND FILL SLABS SHALL BE 3000 PSI LIGHTWEIGHT CONCRETE, WITH A MAXIMUM WEIGHT OF 115 LBS. PER CU. FT., REINFORCED WITH WWF 6x6-W1.4xW1.4 MINIMUM, PLACED 1" CLEAR FROM TOP, UNLESS CALLED OUT OTHERWISE ON THE ARCHITECTURAL, MECHANICAL OR STRUCTURAL DRAWINGS.
18. COORDINATE LOCATION OF SLOTTED INSERTS, WELDED PLATES, AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
19. CONTRACTOR SHALL USE RIGID TEMPLATES TO INSTALL ANCHOR BOLTS.
20. PIPES OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 X THE DIAMETER ON CENTER. PIPES AND CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN THE SLAB WITHIN 12 INCHES OF ANY COLUMN FACE.
21. CONTRACTOR SHALL COORDINATE SLAB DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS.
22. BAR LENGTHS INDICATED ON PLAN DO NOT INCLUDE HOOKS OR BENDS UNLESS NOTED OTHERWISE. 23.KEYS IN ALL WALLS 12" OR SMALLER TO BE 2"x4"

FLOOR LOADS:

A. ROOF BULKHEAD

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION & WATERPROOFING	20 PSF
MECHANICAL	30 PSF
	150 PSF
LL:	
ROOF	40 PSF

B. ROOF

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION & WATERPROOFING	20 PSF
PAVERS	25 PSF
	145 PSF
LL:	
TERRACE, STAIR & EXIT	100 PSF

C. 2ND TO 7TH FLR.

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION & WATERPROOFING	20 PSF
	120 PSF
PAVERS	25 PSF
LL:	
BALCONY, TERRACE, STAIR & EXIT	100 PSF

D. 1ST FLR.

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION PARTITIONS	25 PSF
	125 PSF
LL:	
COMMERCIAL, STAIR & EXIT	100 PSF

E. CELLAR

DL:	
4" CONC. SLAB	50 PSF
PARTITIONS	10 PSF
LL:	
CELLAR, STAIR & EXIT	100 PSF
EXTERIOR WALLS:	
8" CMU + 2" RIGID INSULATION + 4"BRICK	84 PSF
8" CMU + 2" RIGID INSULATION + STUCCO	54 PSF

LATERAL LOADS:

A. WIND LOAD (PER NYCBC 08)

STRUCTURAL FRAME	20 PSF
COMPONENTS AND CLADDING WALLS	30 PSF

WIND SHALL BE ASSUMED TO ACT FROM ANY DIRECTION. FACTOR OF SAFETY AGAINST SLIDING OR OVERTURNING DUE TO WIND ≥ 1.5. RESISTED BY THE DEAD LOAD OF THE STRUCTURE

B. SEISMIC LOAD (PER NYCBC 08)

SITE CLASS	D
IMPORTANCE FACTOR, I	1.0
OCCUPANCY CATEGORY	II
STRUCTURAL SYSTEM, R	5 (ORDINARY REINFORCED CONCRETE SHEAR WALL)
SITE COEFFICIENT Ss	0.365
SITE COEFFICIENT S1	0.071
SITE COEFFICIENT Fa	1.51
SITE COEFFICIENT Fv	2.4
FUNDAMENTAL PERIOD Ta	4.12 SEC
SEISMIC BASE SHEAR	144 KIPS

BC 28.2-1627.2 REQUIREMENTS:

1. STRUCTURAL OCCUPANCY CATEGORY AND MORE THAN 50,000 SF FRAMED AREA. SEE SEISMIC LOAD OCCUPANCY CATEGORY ABOVE.
2. BUILDINGS WITH ASPECT RATIO OF 7 OR MORE:

$$\text{ASPECT RATIO} = \frac{H\ (\text{bulkhead})}{W\ (\text{bldg})} = \frac{83.60\ \text{FT}}{43.00\ \text{FT}} = 1.94 < 7.00$$

3. BUILDING GREATER THAN 600 FEET (183M) IN HEIGHT OR MORE THAN 1,000,000 SF (92,903 SM) IN GROSS FLR AREA:

   TOTAL BUILDING HEIGHT = 83.60 FT
   TOTAL GROSS BUILDING AREA =33,732 SF

   NOT DESIGNED FOR NON-LINEAR TIME HISTORY ANALYSIS NOR WITH SPECIAL SEISMIC
5. BUILDINGS DESIGNED USING NON-LINEAR TIME HISTORY ANALYSIS OR WITH SPECIAL SEISMIC ENERGY DISSIPATION SYSTEMS.

   ENERGY DISSIPATION SYSTEM
6. BUILDINGS WHERE A STRUCTURAL PEER REVIEW IS REQUESTED BY THE COMMISSIONER.

   COMMISSIONER DID NOT REQUEST FOR PEER REVIEW

SPECIAL INSPECTION ITEMS

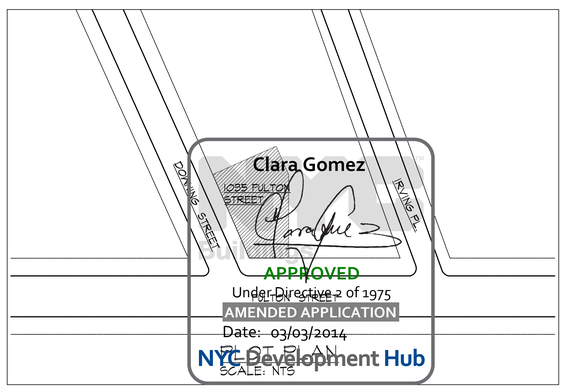
ITEMS	CODE/ SECTION
CONCRETE - CAST-IN-PLACE	BC 1704.4
SOILS- INVESTIGATION (BORING/TEST PITS)	BC1704.7.4
CONCRETE TEST CYLINDER	BC 1905.6
CONCRETE DESIGN MIX	BC 1905.3

PROGRESS INSPECTION ITEM

ITEMS	CODE/ SECTION
FOOTING AND FOUNDATION	BC 104.3.1

DRAWING LIST

S-000.00	GENERAL NOTES
EXCAVATION	
SOE-000.00	EXCAVATION NOTES
SOE-100.00	EXCAVATION PLAN
SOE-101.00	EXCAVATION SECTION AND DETAILS
FOUNDATION	
FO-100.00	CELLAR/FOUNDATION FRAMING PLAN
FO-101.00	FOUNDATION TYPICAL DETAILS
FO-102.00	FOUNDATION SECTION AND DETAILS
FRAMING PLAN	
S-100.00	1ST FLOOR FRAMING PLAN
S-101.00	2ND FLOOR FRAMING PLAN
S-102.00	3RD - 6TH FLOOR FRAMING PLAN
S-103.00	7TH FLOOR FRAMING PLAN
S-104.00	ROOF FLOOR FRAMING PLAN
S-105.00	BULKHEAD FRAMING PLAN
COLUMN SCHEDULES	
S-200.00	SHEAR DETAILS, COLUMN SCHEDULE, TABLES AND DETAILS
DETAILS	
S-300.00	TYPICAL DETAILS
S-301.00	TYPICAL DETAILS
S-302.00	TYPICAL DETAILS
S-303.00	SECTION AND DETAILS



Clara Gomez
1035 FULTON STREET
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	GENERAL NOTES SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2013 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 5. MTA COMM. 08-09-2013 DOB FILING - 02-06-2014	STATE OF NEW YORK COUNTY SARA PRICE LICENSED PROFESSIONAL ENGINEER SEAL SIGNATURE EXPIRATION DATE LICENSE NUMBER	S-000.00 1 OF 24

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NYC TRANSIT
GENERAL NOTES

NOTE. THE APPROPRIATE NOTES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS.

1. THE NYC TRANSIT (NYCT) RESERVES THE RIGHT TO PLACE INSPECTOR'S, FLAGMAN OR OTHER PERSONNEL IN THE SUBWAY STRUCTURES DURING CONSTRUCTION OF THE PROJECT LINKED BY A TELEPHONE SYSTEM, IF DEEMED NECESSARY, TO OBSERVE THE EFFECTS OF THE CONSTRUCTION ON THE TRANSIT FACILITIES. IT IS EXPECTED THAT SUCH PERSONNEL WILL BE NECESSARY WHEN THE CONSTRUCTION COMES WITHIN TWENTY-FIVE FEET OF THE SUBWAY STRUCTURE. HOWEVER, NYCT FURTHER RESERVES THE RIGHT TO PLACE SUCH PERSONNEL WHENEVER, IN ITS OPINION, THE PROJECT CONDITIONS WARRANT SUCH PLACEMENT, REGARDLESS OF DISTANCE. THE COST OF SUCH PERSONNEL, TELEPHONE INSTALLATION AND ANY RE-ROUTES, DIVERSIONS OF SERVICE, WORK TRAINS, ETC., MADE NECESSARY BY PROJECT, MUST BE BORNE BY THE PROJECT OR THE RESPONSIBLE NEW YORK CITY/STATE AGENCY.

2. ALL ROCK EXCAVATION ADJACENT TO THE TRANSIT STRUCTURE IS TO BE CHANNEL DRILLED TWO FEET BELOW SUBGRADE.

3. IF TOP OF ROCK IS FOUND BELOW SUBWAY STRUCTURE, THE SUBWAY STRUCTURE MUST BE UNDERPINNED IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

4. IF ROCK IS SOFT OR SEAMY, LATERAL SUPPORTS MUST BE PROVIDED BELOW THE SUBWAY STRUCTURE IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

5. BLASTING WILL BE PERMITTED ONLY WITH LIGHT CHARGES SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND IN ACCORDANCE WITH THE REGULATIONS OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE A DETAILED MONITORING PLAN, PROVIDING MEASUREMENTS OF BOTH PARTICLE VELOCITY AND DISPLACEMENTS AT CRITICAL LOCATIONS OF THE NYCT STRUCTURE. THE MONITORING PLAN SHALL INCLUDE THRESHOLD AND UPSET LEVELS OF BOTH PARTICLE VELOCITY AND SETTLEMENT TOGETHER WITH AN ACTION PLAN FOR THEIR IMPLEMENTATION. THE CONTRACTOR SHALL SECURE AN APPROVED SEISMOLOGIST TO INSTALL AND OPERATE SUITABLE VELOCITY GAUGES TO CONTINUOUSLY MONITOR PARTICLE VELOCITY AND AN INDEPENDENT LICENSED SURVEYOR TO MONITOR DISPLACEMENTS. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE BLASTING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

6. BEFORE PLACING CONCRETE, THE SUBGRADE OF THE FOUNDATIONS IN THE VICINITY OF THE SUBWAY STRUCTURE IS TO BE INSPECTED AND APPROVED BY NYCT'S ENGINEER.

7. IF ANY PORTION OF THE SUBWAY STRUCTURE OR FINISH IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS IN PLACE, SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND AT THE EXPENSE OF THE PROJECT.

8. EXCAVATION EMBANKMENTS ARE TO BE SHORED AND BRACED. DRAWINGS INDICATING A SUGGESTED METHOD OF CONSTRUCTION ARE TO BE SUBMITTED TO NYCT FOR APPROVAL IN CONJUNCTION WITH THE PROJECT'S CONTRACT DRAWINGS. IN CASE OF EXCAVATION UNDERMINING THE SUBWAY STRUCTURE, UNDERPINNING MAY BE REQUIRED. DRAWINGS FOR UNDERPINNING ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

9. TEMPORARY SHORING MAY BE PLACED INDIRECT CONTACT WITH NYCT STRUCTURES ONLY IF THE NYCT STRUCTURE IS SHOWN TO BE ABLE TO SUPPORT ALL ANTICIPATED LOADS THAT CAN BE TRANSFERRED THROUGH THE TEMPORARY STRUCTURES WITHOUT DAMAGING THE EXISTING STRUCTURE. AT ONE COMPLETION OF THE PROJECT, THESE TEMPORARY SHORING AND BRACING SYSTEMS ARE TO BE REMOVED OR CUT-OFF AS APPROVED BY NYCT.

10. WHEN PILES ARE TO BE DRIVEN ADJACENT TO THE SUBWAY STRUCTURE, BORING DATA, PILE LAYOUTS, SPECIFICATIONS AND INSTALLATION PROCEDURES ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. VELOCITY METERS ARE TO BE INSTALLED IN THE SUBWAY TUNNEL AT CRITICAL LOCATIONS TO MONITOR INDUCED VIBRATIONS, INDUCED DISPLACEMENTS ALONG THE TUNNEL STRUCTURE AND TRACK INVERT ARE TO BE MONITORED DURING DRIVING. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE DRIVING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCTS ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

11. NO PILES ARE PERMITTED TO BE INSTALLED BY ANY METHOD WITHIN THREE FEET OF SUBWAY STRUCTURE, MEASURED FROM THE EDGE OF THE PILE OR CASING TO THE WALL. CLOSED-END PILES WILL NOT BE PERMITTED TO BE DRIVEN WITHIN TEN FEET OF THE SUBWAY STRUCTURE.

12. ALL PILES ARE TO BE PLACED WITHIN A PREAUGERED CASED HOLE TO THE INFLUENCE LINE. THE CASING SHALL BE LEANED WITHOUT DISTURBING THE SOIL OUTSIDE THE CASING AND THE PILE TO BE PLACED WITHIN THE CASING FOR INSTALLATION. THE PILES MAY THEN BE DRIVEN BEYOND THE INFLUENCE LINE WITHIN THE CASING.

13. THE INFLUENCE LINE SHALL START AT THE BOTTOM OF THE SUBWAY STRUCTURE AND EXTEND AT A 1:1 SLOPE. FOR PILES INSTALLED WITHIN TEN FEET OF THE SUBWAY STRUCTURE, THE CASING SHALL BE EXTENDED UP TO THE BOTTOM OF THE SUBWAY STRUCTURE.

14. AT THE COMPLETION OF PILE INSTALLATION, THE SPACE BETWEEN THE PILE AND CASING IS TO BE FILLED WITH EITHER CLEAN SAND OR GROUT. IF THE CASING IS TO BE REMOVED, THE FILLING MUST BE COMPLETED PRIOR TO REMOVAL OF THE CASING .

15. ALL PILES ARE TO BE DRIVEN A MINIMUM OF TEN FEET BELOW THE INTERSECTION OF THE PILE CENTER LINE AND THE INFLUENCE LINE OF THE SUBWAY STRUCTURE.

16. THE USE OF "DOWN-THE-HOLE-HAMMERS" FOR INSTALLATION OF PILES THROUGH OVERBURDEN AND FILL WILL BE PERMITTED ONLY TO REMOVE BOULDERS. IT WILL NOT BE PERMITTED AS A MATTER OF COURSE TO ADVANCE THE HOLE. THEIR USE TO CONSTRUCT ROCK SOCKETS WILL NOT BE ALLOWED WITHIN 5 FEET OF THE NYCT STRUCTURE.

17. VIBRATORY HAMMERS WILL NOT BE PERMITTED WITHIN 75 FEET OF SUBWAY STRUCTURES. HOERAMS WILL NOT BE PERMITTED WITHIN 25 FEET OF SUBWAY STRUCTURES.

18. DYNAMIC COMPACTION METHODS USING DROPPED HEAVY WEIGHTS CANNOT BE CONDUCTED WITHIN 1000 FEET OF ANY NYCT STRUCTURE UNLESS IT IS SHOWN THAT INDUCED SETTLEMENTS AND VIBRATIONS WILL NOT DAMAGE THESE STRUCTURES. A SUITABLE MONITORING PLAN INCLUDING SETTLEMENT AND VIBRATION MEASUREMENTS MUST BE APPROVED BY NYCT'S ENGINEER FOR ALL SUCH OPERATIONS WITHIN THESE DISTANCES.

19. THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3 FEET OF NYCT STRUCTURES, POWER DUCT LINES, OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.

20. ALL DEWATERING OPERATIONS CONDUCTED WITHIN 500 FEET OF THE NYCT STRUCTURE MUST BE PERFORMED IN ACCORDANCE WITH DRAWINGS AND PROCEDURES SUBMITTED TO NYCT FOR APPROVAL. THE DISTANCE FROM THE STRUCTURE TO THE DEWATERING OPERATION CAN BE REDUCED PROVIDED THAT SOIL CONDITIONS AT THE SITE INDICATE THAT THE RADIUS OF INFLUENCE OF THE DEWATERING IS LESS THAN 500 FEET. FOR DEWATERING WITHIN THE RADIUS OF INFLUENCE, THE DEWATERING PROGRAM MUST BE SHOWN TO HAVE NEGLIGIBLE INFLUENCE ON SETTLEMENTS OF THE NYCT STRUCTURE.

21. SUBWAY ENTRANCES (VENTILATORS, ETC.) ARE TO BE UNDERPINNED OR SHORED AND BRACED IF DIRECTED BY NYCT'S ENGINEER.

22. NYCT, AT ITS DISCRETION, RESERVES THE RIGHT TO REQUIRE THE PROJECT TO CLOSE OR MAINTAIN AND PROTECT EXISTING SUBWAY ENTRANCES, VENTILATORS, ETC. ADJACENT TO THE PROJECT DURING CONSTRUCTION. SUCH CONSTRUCTION MAY INCLUDE UNDERPINNING, SHORING, BRACING AND ERECTION OF SUITABLE BARRICADES AND/OR CANOPIES AND SHIELDS. SUCH PROTECTION SHALL BE IN ACCORDANCE WITH DRAWINGS SUBMITTED TO NYCT FOR APPROVAL.

23. IF SHIELDS ARE TO BE INSTALLED TO PROTECT NYCT FACILITIES AND/OR THE PUBLIC, PLANS, SHOWING THE LOCATION, TYPE AND METHOD OF ATTACHMENT TO THE TRANSIT STRUCTURE MUST BE SUBMITTED TO NYCT FOR APPROVAL.

24. ALL LUMBER AND PLYWOOD USED FOR PROTECTION OF SUBWAY FACILITIES MUST BE FIRE RETARDANT.

25. SUBWAY EMERGENCY EXITS MUST BE KEPT CLEAR AT ALL TIMES.

26. IN EXCAVATING OVER OR NEAR THE SUBWAY ROOF, SPECIAL CARE SHALL BE EXERCISED SO THAT THE THIN CONCRETE PROTECTION OF THE SUBWAY WATERPROOFING IS NOT DAMAGED.

27. BURNING OF, WELDING TO OR DRILLING THROUGH EXISTING STEEL STRUCTURES WILL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS APPROVED BY NYCT.

28. HORIZONTAL AND VERTICAL CONTROL SURVEY DATA OF THE EXISTING NYCT STRUCTURE IS TO BE TAKEN BY A LICENSED LAND SURVEYOR TO MONITOR ANY MOVEMENTS THAT OCCUR DURING CONSTRUCTION AND TO SHOW THAT THE INDUCED MOVEMENTS ARE WITHIN ALLOWABLES PROVIDED AND APPROVED BY NYCTS ENGINEER. IF ANY MOVEMENTS EXCEED ALLOWABLES, REMEDIATION AS APPROVED BY NYCT SHALL BE PERFORMED.

29. BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE BUS DIVERSIONS. THESE ARRANGEMENTS SHALL BE MADE THROUGH:

MS. SARAH WYSS
ACTING DIRECTOR, OPERATIONS PLANNING
NEW YORK CITY TRANSIT
2 BROADWAY, ROOM A17.50
NEW YORK, NEW YORK 10004
TELEPHONE NUMBER (646) 252-5517

WHEN IMPACTING ANY BUS STOP, SPECIAL OPERATIONS MUST BE NOTIFIED TWO WEEKS IN ADVANCE.

30. DUCT LINES MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ANY INTERFERENCE WITH DUCT LINES SHOULD BE REPORTED TO NYCT INSPECTOR. WHEN A DUCT LINE CONTAINING CABLES IS TO BE REMOVED OR WHEN MASONRY ADJACENT THERETO IS TO BE REMOVED, PENETRATED, OR DRILLED, THE WORK SHALL BE DONE WITH HAND LABOR ENTIRELY, USING HAMMER AND CHISEL. JACKHAMMERS, BULL POINTS OR OTHER POWER EQUIPMENT SHALL NOT BE USED.

31. WHERE MANHOLES ARE ENCOUNTERED:
A) THEY SHALL BE PROTECTED AND RAISED OR LOWERED AS REQUIRED, TO MATCH THE NEW STREET GRADE.
B) IF MANHOLE COVERS ARE RAISED OR LOWERED, PROTECT CABLES IN MANHOLE BY WOOD SHEETING OF 2" NOMINAL THICKNESS.
C) PRIOR TO THE START OF CONSTRUCTION OPERATIONS AFFECTING MANHOLES AND DUCT LINES, SEVEN DAYS NOTICE MUST BE GIVEN TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE OF WAY, AT (718) 694-1358.

32. CONSTRUCTION WORK DONE NEAR VENT GRATINGS AND HATCHES SHALL BE AS FOLLOWS:
A) UNLESS APPROVED BY THE NYCT'S ENGINEER, ALL VENT GRATINGS AND HATCHES SHOULD REMAIN OUTSIDE THE CONSTRUCTION SITE. SEPARATED BY A CONSTRUCTION FENCE. PROTECTIVE SHIELDS MUST BE PROVIDED OVER VENT GRATINGS AS REQUIRED BY NYCT'S ENGINEER.
B) NO BUILDING MATERIAL, VEHICLES OR CONSTRUCTION EQUIPMENT IS TO BE STORED OR RUN OVER VENT, GRATINGS, HATCHES OR EMERGENCY EXISTS.
C) DETAILS OF SIDEWALK RECONSTRUCTION AROUND VENT GRATINGS, HATCHES AND EMERGENCY EXITS ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

33. TRACTORS, CRANES, EXCAVATORS, ETC. USED IN THE VICINITY OF THE ELEVATED STRUCTURES SHALL BE ISOLATED FROM THE GROUND. SINCE THE ELEVATED STRUCTURE IS USED AS A NEGATIVE RETURN PATH, WITH A CONSEQUENT POTENTIAL BETWEEN IT AND THE GROUND, ANY CONTACT BETWEEN THE STRUCTURE AND GROUNDED EQUIPMENT COULD RESULT IN BURNING OF THE STEEL.

34. TEMPORARY CONSTRUCTION SHEDS, BARRICADES OR PLYWOOD PARTITIONS MUST BE A MINIMUM OF 5'-0" FROM EDGE OF FINISHED PLATFORM.

35. STATION AREAS OR STAIRWAY/CLOSINGS: THE GENERAL REQUIREMENTS FOR STATION AREAS OR STAIRWAY/CLOSINGS ARE AS FOLLOWS:
A) ONLY ONE STAIRWAY AT EACH STATION WILL BE PERMITTED TO BE CLOSED AT THE SAME TIME. APPROVALS FOR CLOSING ANY STAIRWAY MUST BE OBTAINED FROM THE DIVISION OF STATION OPERATIONS AT LEAST THREE WEEKS IN ADVANCE.
B) MR. ASHOK PATEL, DIRECTOR, OFFICE OF STATION PROGRAMS, TELEPHONE (718) 694-1645 OF THE DIVISION OF STATIONS MUST BE NOTIFIED ONE WEEK PRIOR TO THE ACTUAL CLOSING AND REOPENING OF THE ENTRANCE.
C) AMPLE SIGNAGE MUST BE SUPPLIED AND POSTED AT LEAST ONE WEEK IN ADVANCE, ADVISING THE PUBLIC OF THE PROPOSED SUBWAY STAIR CLOSING.
D) THE STREET ENTRANCE STAIRWAY SHOULD NOT BE CLOSED UNLESS MANPOWER AND MATERIALS ARE AVAILABLE TO COMMENCE WORK ON DATES PERMITTED.
E) ONCE THE CLOSING IS EFFECTIVE, SUFFICIENT SIGNS MUST BE PLACED AT APPROPRIATE LOCATIONS ON THE BARRICADES AT THE STREET AND MEZZANINE LEVELS, STATING THE CONTRACTOR'S NAME, 24 HOUR EMERGENCY TELEPHONE NUMBER, CONTACT NUMBER, THE DURATION OF THE CLOSING, DIRECTIONS TO AN ALTERNATE ENTRANCE/EXIT, AND AN APOLOGY FOR THE INCONVENIENCE TO OUR CUSTOMERS.
F) EXISTING STATION SIGNAGE MUST BE ADJUSTED TO REFLECT ANY CHANGES IN ACCESS/EGRESS.
G) BARRICADES ARE TO BE PAINTED AND KEPT GRAFFITI FREE AT ALL TIMES. THE CONTRACTOR MUST MAINTAIN THE BARRICADED AREA CLEAN OF ALL DEBRIS.
H) ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM PASSENGER TRAFFIC.
I) THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL AND BARRICADES FROM ALL STATION AREAS WHEN CONSTRUCTION IS COMPLETED.
J) INSPECTION OF THE AREA UNDER CONSTRUCTION BY AUTHORIZED STATION DEPARTMENT EMPLOYEES SHALL NOT BE INHIBITED.
K) IF STREET LIGHTS ON THE SIDEWALKS ARE AFFECTED, TEMPORARY LIGHTS SHALL BE PROVIDED.

36. IF NEW CONCRETE CONSTRUCTION IS JOINED TO EXISTING CONCRETE, DOWELS AND KEYWAYS ARE TO BE USED IN ACCORDANCE WITH NYCT STANDARDS.

37. IF THE PROJECT INVOLVES CONSTRUCTION OR ALTERATION OF A SUBWAY FACILITY ON PRIVATE PROPERTY, THE PROPERTY OWNERS WILL BE REQUIRED TO ENTER INTO AN AGREEMENT WITH NYCT PERTAINING TO ALL WORK AFFECTING THE TRANSIT FACILITIES AND CLEARLY DEFINING LIMITS AND RESPONSIBILITY FOR MAINTENANCE AND LIABILITY.

38. WHEREVER A NEW SIDEWALK IS BEING PLACED ADJACENT TO NYCT STRUCTURES THE FOLLOWING WILL BE REQUIRED:
A) THE TOP OF THE NEW SIDEWALK SHALL BE FLUSH WITH THE SUBWAY VENT GRATINGS, HATCHES AND EMERGENCY EXITS.
B) THE SLOPE OF THE NEW SIDEWALK SHALL BE SUCH THAT THE DRAINAGE BE AWAY FROM THESE STRUCTURES.
C) A 1/2" PREMOLDED FILLER SHALL BE INSTALLED BETWEEN THE NEW SIDEWALK AND NYCT STRUCTURE.
D) WHERE SIDEWALK ELEVATIONS ARE BEING CHANGED DETAILS OF PROPOSED WORK AROUND NYCT STRUCTURES ARE TO BE SUBMITTED FOR APPROVAL.

39. BEFORE THE START OF ANY WORK, THE CONTRACTOR SHALL MAKE AN EXAMINATION, IN THE PRESENCE OF NYCT'S ENGINEER, OF THE INTERIOR AND EXTERIOR OF NYCT SUBWAY OR OTHER STRUCTURE ADJACENT TO THE PROPOSED WORK. THE PERSON OR PERSONS AUTHORIZED BY THE CONTRACTOR TO MAKE THESE EXAMINATIONS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE AN PHOTOGRAPHS AS MAY BE NECESSARY OR ORDERED TO INDICATE THE EXISTING CONDITION OF NYCT STRUCTURE. ONE COPY OF EACH PHOTOGRAPH, EIGHT INCHES BY TEN INCHES IN SIZE, AND THE NEGATIVE IS TO BE SUBMITTED TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE-OF-WAY, 130 LIVINGSTON STREET, ROOM 8044D, BROOKLYN, NEW YORK, 11201 TELELPHONE (718) 694-1358 BEFORE THE START OF CONSTRUCTION.

40. ALL ARCHITECTURAL DETAILS (TOKEN BOOTHS, RAILINGS, DOORS, ETC.) ARE TO CONFORM TO THE LATEST NYCT STANDARDS. THESE STANDARDS ARE AVAILABLE AT NYCT.

41. STANDARD NYCT INSURANCE CLAUSES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS. PROOF THAT THE NECESSARY INSURANCE IS IN EFFECT WILL BE REQUIRED BEFORE WORK CAN COMMENCE.

42. AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO TRANSIT FACILITIES, ONE SET OF VELLUMS OR MYLARS, FIVE SETS OF 35MM MICROFILM, AND ELECTRONIC COPIES COMPLYING TO MICROSTATION.DGN FORMAT OF "APPROVED AS-BUILTS" MUST BE PROVIDED TO NYCT FOR ITS RECORDS. FOR DETAILS OF SPECIFIC REQUIREMENTS CONTACT NYCT OUTSIDE PROJECTS.

43. AL LEAST SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OPERATIONS, NOTIFICATION MUST BE GIVEN TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE-OF-WAY, AT (718) 694-1358 THE CONTRACTOR TO PROVIDE TEMPORARY QUARTERS NEAR THE JOB SITE FOR NYCT INSPECTORS CONTAINING A DESK AND TELEPHONE.

A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES (INCLUDING DEATH) TO PERSONS (INCLUDING, BUT NOT LIMITED TO EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS AND EMPLOYEES OF THE CITY OF NEW YORK (HEREINAFTER CALLED THE CITY) OR THE NEW YORK CITY TRANSIT AUTHORITY (HEREINAFTER CALLED THE AUTHORITY) OR DAMAGE TO PROPERTY (INCLUDING BUT NOT LIMITED TO, PROPERTY OF THE CITY, THE AUTHORITY OR THE CONTRACTOR OR SUBCONTRACTORS) OCCURRING ON ACCOUNT OF OR IN CONNECTION WITH PERFORMANCE OF THE WORK HERE UNDER AND SHALL INDEMNIFY AND SAVE HARMLESS THE CITY AND THE AUTHORITY FROM LOSS AND LIABILITY UPON ANY AND ALL CLAIMS ON ACCOUNT OF SUCH INJURIES TO PERSONS OF DAMAGE TO PROPERTY, AND FROM ALL COST AND EXPENSES IN SUITS WHICH MAY BE BROUGHT AGAINST THE CITY AND /OR THE AUTHORITY ON ACCOUNT OF ANY SUCH INJURIES TO PERSONS OR DAMAGE TO PROPERTY, IRRESPECTIVE OF THE ACTUAL CAUSE OF THE ACCIDENT AND IRRESPECTIVE OF THE ACTUAL CAUSE OF THE ACCIDENT AND IRRESPECTIVE OF WHETHER IT SHALL HAVE BEEN DUE TO NEGLIGENCE OF THE CONTRACTOR OR HIS SUBCONTRACTORS OR NEGLIGENCE OF THE CITY OR AUTHORITY, THEIR RESPECTIVE AGENTS, SERVANTS OR EMPLOYEES, OR OF ANY OTHER PERSON BUT EXCEPTING INJURIES AND PROPERTY DAMAGE CAUSED BY OR RESULTING FROM THE SOLE NEGLIGENCE OF THE CITY AND/OR THE AUTHORITY ACTING AS AGENT OF THE CITY HERE UNDER. THE TERM "LOSS AND LIABILITY" AS USED ABOVE, SHALL BE DEEMED TO INCLUDE, BUT NOT TO BE LIMITED TO , LIABILITY FOR THE PAYMENT OF WORKERS COMPENSATION BENEFITS UNDER THE WORKERS COMPENSATION LAW OF THE STATE OF NEW YORK, AND THE CONTRACTOR SPECIFICALLY COVENANTS TO REIMBURSE THE AUTHORITY AND THE CITY FOR AFT PAYMENTS OF WORKERS COMPENSATION BENEFITS, INCLUDING BUT NOT LIMITED TO BENEFITS PAID TO EMPLOYEES OF THE AUTHORITY AND THE CITY WHICH THE AUTHORITY OR THE CITY SHALL BE REQUIRED TO MAKE TO ANY EMPLOYEE WHO SHALL CLAIM TO HAVE SUSTAINED INJURIES ON ACCOUNT OF OR IN CONNECTION WITH THE WORK HERE UNDER, WHETHER OR NOT SUCH INJURIES SHALL HAVE BEEN SUSTAINED AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, HIS SUBCONTRACTORS, THE AUTHORITY OR THE CITY, THEIR RESPECTIVE AGENTS, SERVANTS OR EMPLOYEES, OR NEGLIGENCE OF THE INJURED EMPLOYEE, BUT EXCLUDING FROM BODILY INJURIES AND PROPERTY DAMAGE CAUSED BY OR RESULTING FROM THE SOLE NEGLIGENCE OF THE CITY AND/OR THE AUTHORITY ACTING AS AGENT OF THE CITY HEREUNDER.

B. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SUPPORT, MAINTENANCE, SAFETY AND PROTECTION OF THE TRANSIT FACILITIES OF THE NEW YORK CITY TRANSIT SYSTEM (HEREINAFTER CALLED THE RAILROAD) FOR THE RAILROAD'S PROTECTION OF ALL PERSONS, PASSENGERS, INTENDING PASSENGERS OR EMPLOYEES AND OTHER PERSONS, AND OF ALL PROPERTY THEREIN, AND HE/SHE SHALL BE SOLELY RESPONSIBLE AND LIABLE FOR ANY INJURY AND DAMAGE TO PERSONS OR PROPERTY, OR LOSS TO PERSONS OR DAMAGE TO PROPERTY THEREIN OCCURRING ON ACCOUNT OF OR IN CONNECTION WITH THE PERFORMANCE OF WORK UNDER THIS CONTRACT WHETHER DUE TO THE NEGLIGENCE, FAULT OR DEFAULT OF THE CONTRACTOR OR NOT

THE CONTRACTOR SHALL FULLY PROTECT AND INDEMNIFY THE CITY AND THE AUTHORITY FROM LOSS AND FROM LIABILITY UPON ANY AND ALL CLAIMS ON ACCOUNT OF DAMAGE TO THE RAILROAD, OR ON ACCOUNT OF SUCH INJURIES TO PASSENGERS, INTENDING PASSENGERS, EMPLOYEES OR OTHER PERSONS OR DAMAGE TO PROPERTY, OR ON ACCOUNT OF INTERRUPTION OF TRAIN OPERATION, OR ON ACCOUNT OF ANY WORK DONE BY THE CONTRACTOR ON OR AFFECTING THE RAILROAD, AND FROM ANY COSTS AND EXPENSES IN SUITS WHICH MAY BE BROUGHT AGAINST THE CITY AND/OR THE AUTHORITY FOR SUCH INJURIES OR DAMAGE.

C. IN CASE ANY DAMAGE SHALL OCCUR TO ANY PART OF THE RAILROAD ON ACCOUNT OF OR IN CONNECTION WITH THE WORK HEREUNDER AND THE CONTRACTORS IS RESPONSIBLE THEREUNDER, PURSUANT TO PARAGRAPH (A) HEREOF, THE CITY AND /OR THE AUTHORITY SHALL HAVE THE RIGHT TO CAUSE SUCH DAMAGE TO BE REPAIRED AND CHARGE THE EXPENSE OF SUCH REPAIRS TO THE CONTRACTOR AND TO BE REIMBURSE FOR THE AMOUNT OF SUCH EXPENSE FROM ANY MONEYS DUE OR BECOMING DUE TO THE CONTRACTOR HEREUNDER.

D. APPROVAL BY THE CHIEF ENGINEER, MAINTENANCE OF WAY, OF THE METHODS OF DOING THE WORK OR THE FAILURE OF THE CHIEF ENGINEER TRACK STRUCTURES, TO CALL ATTENTION TO IMPROPER OR INADEQUATE METHODS OR TO REQUIRE A CHANGE IN METHODS OR TO DIRECT THE CONTRACTOR TO TAKE ANY PARTICULAR PRECAUTION OR TO REFRAIN FROM DOING ANY PARTICULAR THING SHALL NOT EXCUSE THE CONTRACTOR IN CASE OF ANY SUCH INJURY TO PERSON OR DAMAGE TO PROPERTY IT IS UNDERSTOOD AND AGREED TO IF DURING THE COURSE OF THE WORK UNDER THIS CONTRACT, WATCHMEN OR FLAGMEN AND OTHER EMPLOYEES OF THE CITY AND/OR THE AUTHORITY ARE ASSIGNED TO PERFORM WORK IN CONNECTION THEREWITH, SUCH EMPLOYEES ARE TO BE CONSIDERED AS EMPLOYEES OF THE CONTRACTOR.

E. THE CONTRACTOR SHALL PROCURE, AT ITS SOLE COST AND EXPENSE, AND SHALL PROCURE AT ITS SOLE COST AND EXPENSE, AND SHALL MAINTAIN IN FORCE AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE AUTHORITY, POLICIES OF INSURANCE AS HEREIN BELOW SET FORTH, WRITTEN BY COMPANIES APPROVED BY THE AUTHORITY AND SHALL DELIVER TO THE AUTHORITY EVIDENCE OF SUCH POLICIES, A CERTIFICATE OF INSURANCE MAY BE SUPPLIED AS EVIDENCE OF SUCH POLICIES. PRIOR TO ANY WORK, IF REQUIRED BY THE AUTHORITY, THE CONTRACTOR SHALL DELIVER TO THE AUTHORITY A COPY OF SUCH POLICIES, CERTIFIED BY THE INSURANCE CARRIER AS BEING A TRUE AND COMPLETE COPY. THE CERTIFICATE OF INSURANCE AND INSURANCE POLICIES MUST (1.) INDICATE THE I.S. O. FORM USED BY THE CARRIER (2) BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE BROKER OR THE INSURANCE CARRIER, (3.) DISCLOSE ANY DEDUCTIBLES, SELF-INSURED RETENTION (DEDUCTIBLES OR SELF-INSURED RETENTIONS ABOVE $25,000 WILL REQUIRE APPROVAL FROM THE AUTHORITY), AGGREGATE LIMIT OR ANY EXCLUSIONS TO THE POLICY THAT MATERIALLY CHANGE THE COVERAGE; (4.) INDICATE THAT THE NYCTA, MABSTOA, SIRTOA, MTA, ITS SUBSIDIARIES AND AFFILIATED COMPANIES AND THE CITY OF NEW YORK AND ALL OTHER INDEMNIFIED PARTIES INCLUDED IN THE CONTRACT ARE NAMED AS ADDITIONAL INSUREDS ON ALL POLICIES (EXCEPT WORKERS COMPENSATION OR PROFESSIONAL LIABILITY); (5.) REFERENCE THE CONTRACT ON THE FACE OF THE CERTIFICATE; (6.) INCLUDE A SPECIAL CANCELLATION PROVISION WHICH SHALL READ "THE AUTHORITY IS INTERESTED IN THE MAINTENANCE OF THIS INSURANCE, AND IT IS AGREED THAT THIS INSURANCE WILL NOT BE CANCELED, MATERIALLY CHANGED OR NOT RENEWED WITHOUT AT LEAST 30 DAYS PRIOR WRITTEN NOTICE TO THE AUTHORITY, ATTENTION DIRECTOR - RISK MANAGEMENT, ROOM 10084, 130 LIVINGSTON STREET, BROOKLYN, NEW YORK 11201, BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED"; AND (7.) INDICATE THAT THE COVERAGE AFFORDED UNDER THE POLICIES SHALL APPLY AS PRIMARY AND NOT EXCESS OR CONTRIBUTING BASIS WITH ANY POLICIES WHICH MAY BE AVAILABLE TO THE AUTHORITY. AT LEAST TWO WEEKS PRIOR TO THE EXPIRATION OF THE ORIGINAL POLICIES OR ANY RENEWAL OR REPLACEMENT POLICIES OF INSURANCE, WITH THE SAME TERMS AND LIMITS AS EXPIRING, SHALL BE DELIVERED TO THE AUTHORITY.

NYCT "OUTSIDE CONTRACT" INSURANCE REQUIREMENTS

A. WORKER'S COMPENSATION INSURANCE (INCLUDING EMPLOYER'S LIABILITY INSURANCE WITH LIMITS OF NOT LESS THAN $2,000,000, WHICH LIMIT MAY BE MET BY A COMBINATION OF PRIMARY AND EXCESS INSURANCE) MEETING THE STATUTORY LIMITS OF NEW YORK STATE. WHEN APPLICABLE, THE POLICY SHALL BE ENDORSED TO INCLUDE THE LONGSHORE AND HARBOR WORKERS' COMPENSATION ACT AND/OR MARITIME COVERAGE ENDORSEMENT (JONES ACT ENDORSEMENT).

B. A COMMERCIAL GENERAL LIABILITY INSURANCE POLICY (I.S.O. FORM CG 00 11 88 OR EQUIVALENT) IN THE CONTRACTOR'S NAME WITH THE NEW YORK CITY TRANSIT AUTHORITY (NYCTA), MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY (MOBSTOA), STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY (SIRTOA), METROPOLITAN TRANSPORTATION AUTHORITY (MTA), ITS SUBSIDIARIES AND AFFILIATED COMPANIES, THE CITY OF NEW YORK AND ALL OTHER INDEMNIFIED PARTIES INCLUDED IN THE CONTRACT AS ADDITIONAL INSURED'S (I.S.O. FORM CG 20 10) WITH LIMITS OF LIABILITY OF $2,000,000 EACH OCCURRENCE ON A COMBINED SINGLE LIMIT BASIS (AGGREGATE MUST BE AT LEAST $4,000,000) FOR INJURIES (BODILY INJURIES, INCLUDING DEATH AND PERSONAL INJURIES) TO PERSONS AND FOR DAMAGE TO PROPERTY. SUCH POLICIES SHALL INCLUDE:
- B.1. CONTRACTUAL COVERAGE FOR LIABILITY ASSUMED BY THE CONTRACTOR UNDER THIS CONTRACT.
- B.2. PERSONAL AND ADVERTISING INJURY COVERAGE.
- B.3. PRODUCTS AND COMPLETED OPERATIONS EXTENDING AT LEAST ONE YEAR AFTER PROJECT COMPLETION
- B.4. INDEPENDENT CONTRACTORS COVERAGE.
- B.5. "XCU" COVERAGE (EXPLOSION, COLLAPSE, AND UNDERGROUND HAZARDS) WHERE NECESSARY.
- B.6. CONTRACTUAL LIABILITY EXCLUSION, APPLICABLE TO CONSTRUCTION OR DEMOLITION OPERATIONS TO BE PERFORMED WITHIN 50 FEET OF RAILROAD TRACKS, MUST BE REMOVED, WHERE NECESSARY.
- B.7. ADDITIONAL INSURED ENDORSEMENT (I.S.O. FORM CG 20 10 1185 VERSION OR EQUIVALENT APPROVED BY THE AUTHORITY) NAMING THE FOLLOWING ENTITIES AND THEIR S

NYC TRANSIT
GENERAL NOTES

NOTE. THE APPROPRIATE NOTES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS.

1. THE NYC TRANSIT (NYCT) RESERVES THE RIGHT TO PLACE INSPECTOR'S, FLAGMAN OR OTHER PERSONNEL IN THE SUBWAY STRUCTURES DURING CONSTRUCTION OF THE PROJECT LINKED BY A TELEPHONE SYSTEM, IF DEEMED NECESSARY, TO OBSERVE THE EFFECTS OF THE CONSTRUCTION ON THE TRANSIT FACILITIES. IT IS EXPECTED THAT SUCH PERSONNEL WILL BE NECESSARY WHEN THE CONSTRUCTION COMES WITHIN TWENTY-FIVE FEET OF THE SUBWAY STRUCTURE. HOWEVER, NYCT FURTHER RESERVES THE RIGHT TO PLACE SUCH PERSONNEL WHENEVER, IN ITS OPINION, THE PROJECT CONDITIONS WARRANT SUCH PLACEMENT, REGARDLESS OF DISTANCE. THE COST OF SUCH PERSONNEL TELEPHONE INSTALLATION AND ANY RE-ROUTES, DIVERSIONS OF SERVICE, WORK TRAINS, ETC., MADE NECESSARY BY PROJECT, MUST BE BORNE BY THE PROJECT OR THE RESPONSIBLE NEW YORK CITY/STATE AGENCY.

2. ALL ROCK EXCAVATION ADJACENT TO THE TRANSIT STRUCTURE IS TO BE CHANNEL DRILLED TWO FEET BELOW SUBGRADE.

3. IF TOP OF ROCK IS FOUND BELOW SUBWAY STRUCTURE, THE SUBWAY STRUCTURE MUST BE UNDERPINNED IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

4. IF ROCK IS SOFT OR SEAMY, LATERAL SUPPORTS MUST BE PROVIDED BELOW THE SUBWAY STRUCTURE IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

5. BLASTING WILL BE PERMITTED ONLY WITH LIGHT CHARGES SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND IN ACCORDANCE WITH THE REGULATIONS OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE A DETAILED MONITORING PLAN, PROVIDING MEASUREMENTS OF BOTH PARTICLE VELOCITY AND DISPLACEMENTS AT CRITICAL LOCATIONS OF THE NYCT STRUCTURE. THE MONITORING PLAN SHALL INCLUDE THRESHOLD AND UPSET LEVELS OF BOTH PARTICLE VELOCITY AND SETTLEMENT. TOGETHER WITH AN ACTION PLAN FOR THEIR IMPLEMENTATION, THE CONTRACTOR SHALL SECURE AN APPROVED SEISMOLOGIST TO INSTALL AND OPERATE SUITABLE VELOCITY GAUGES TO CONTINUOUSLY MONITOR PARTICLE VELOCITY AND AN INDEPENDENT LICENSED SURVEYOR TO MONITOR DISPLACEMENTS. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE BLASTING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

6. BEFORE PLACING CONCRETE, THE SUBGRADE OF THE FOUNDATIONS IN THE VICINITY OF THE SUBWAY STRUCTURE IS TO BE INSPECTED AND APPROVED BY NYCT'S ENGINEER.

7. IF ANY PORTION OF THE SUBWAY STRUCTURE OR FINISH IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS IN PLACE, SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND AT THE EXPENSE OF THE PROJECT.

8. EXCAVATION EMBANKMENTS ARE TO BE SHORED AND BRACED. DRAWINGS INDICATING A SUGGESTED METHOD OF CONSTRUCTION ARE TO BE SUBMITTED TO NYCT FOR APPROVAL IN CONJUNCTION WITH THE PROJECT'S CONTRACT DRAWINGS. IN CASE OF EXCAVATION UNDERMINING THE SUBWAY STRUCTURE, UNDERPINNING MAY BE REQUIRED. DRAWINGS FOR UNDERPINNING ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

9. TEMPORARY SHORING MAY BE PLACED INDIRECT CONTACT WITH NYCT STRUCTURES ONLY IF THE NYCT STRUCTURE IS SHOWN TO BE ABLE TO SUPPORT ALL ANTICIPATED LOADS THAT CAN BE TRANSFERRED THROUGH THE TEMPORARY STRUCTURES WITHOUT DAMAGING THE EXISTING STRUCTURE. AT ONE COMPLETION OF THE PROJECT, THESE TEMPORARY SHORING AND BRACING SYSTEMS ARE TO BE REMOVED OR CUT-OFF AS APPROVED BY NYCT.

10. WHEN PILES ARE TO BE DRIVEN ADJACENT TO THE SUBWAY STRUCTURE, BORING DATA, PILE LAYOUTS, SPECIFICATIONS AND INSTALLATION PROCEDURES ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. VELOCITY METERS ARE TO BE INSTALLED IN THE SUBWAY TUNNEL AT CRITICAL LOCATIONS TO MONITOR INDUCED VIBRATIONS, INDUCED DISPLACEMENTS ALONG THE TUNNEL STRUCTURE AND TRACK INVERT ARE TO BE MONITORED DURING DRIVING. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE DRIVING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

11. NO PILES ARE PERMITTED TO BE INSTALLED BY ANY METHOD WITHIN THREE FEET OF SUBWAY STRUCTURE, MEASURED FROM THE EDGE OF THE PILE OR CASING TO THE WALL. CLOSED-END PILES WILL NOT BE PERMITTED TO BE DRIVEN WITHIN TEN FEET OF THE SUBWAY STRUCTURE.

12. ALL PILES ARE TO BE PLACED WITHIN A PREAUGERED CASED HOLE TO THE INFLUENCE LINE. THE CASING SHALL BE CLEANED WITHOUT DISTURBING THE SOIL OUTSIDE THE CASING AND THE PILE TO BE PLACED WITHIN THE CASING FOR INSTALLATION. THE PILES MAY THEN BE DRIVEN BEYOND THE INFLUENCE LINE WITHIN THE CASING.

13. THE INFLUENCE LINE SHALL START AT THE BOTTOM OF THE SUBWAY STRUCTURE AND EXTEND AT A 1:1 SLOPE. FOR PILES INSTALLED WITHIN TEN FEET OF THE SUBWAY STRUCTURE, THE CASING SHALL BE EXTENDED UP TO THE BOTTOM OF THE SUBWAY STRUCTURE.

14. AT THE COMPLETION OF PILE INSTALLATION, THE SPACE BETWEEN THE PILE AND CASING IS TO BE FILLED WITH EITHER CLEAN SAND OR GROUT. IF THE CASING IS TO BE REMOVED, THE FILLING MUST BE COMPLETED PRIOR TO REMOVAL OF THE CASING .

15. ALL PILES ARE TO BE DRIVEN A MINIMUM OF TEN FEET BELOW THE INTERSECTION OF THE PILE CENTER LINE AND THE INFLUENCE LINE OF THE SUBWAY STRUCTURE.

16. THE USE OF "DOWN-THE-HOLE-HAMMERS" FOR INSTALLATION OF PILES THROUGH OVERBURDEN AND FILL WILL BE PERMITTED ONLY TO REMOVE BOULDERS. IT WILL NOT BE PERMITTED AS A MATTER OF COURSE TO ADVANCE THE HOLE. THEIR USE TO CONSTRUCT ROCK SOCKETS WILL NOT BE ALLOWED WITHIN 5 FEET OF THE NYCT STRUCTURE.

17. VIBRATORY HAMMERS WILL NOT BE PERMITTED WITHIN 15 FEET OF SUBWAY STRUCTURES. HOERAMS WILL NOT BE PERMITTED WITHIN 25 FEET OF SUBWAY STRUCTURES.

18. DYNAMIC COMPACTION METHODS USING DROPPED HEAVY WEIGHTS CANNOT BE CONDUCTED WITHIN 1000 FEET OF ANY NYCT STRUCTURE UNLESS IT IS SHOWN THAT INDUCED SETTLEMENTS AND VIBRATIONS WILL NOT DAMAGE THESE STRUCTURES. A SUITABLE MONITORING PLAN INCLUDING SETTLEMENT AND VIBRATION MEASUREMENTS MUST BE APPROVED BY NYCT'S ENGINEER FOR ALL SUCH OPERATIONS WITHIN THESE DISTANCES.

19. THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3 FEET OF NYCT STRUCTURES, POWER DUCT LINES, OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.

20. ALL DEWATERING OPERATIONS CONDUCTED WITHIN 500 FEET OF THE NYCT STRUCTURE MUST BE PERFORMED IN ACCORDANCE WITH DRAWINGS AND PROCEDURES SUBMITTED TO NYCT FOR APPROVAL. THE DISTANCE FROM THE STRUCTURE TO THE DEWATERING OPERATION CAN BE REDUCED PROVIDED THAT SOIL CONDITIONS AT THE SITE INDICATE THAT THE RADIUS OF INFLUENCE OF THE DEWATERING IS LESS THAN 500 FEET. FOR DEWATERING WITHIN THE RADIUS OF INFLUENCE, THE DEWATERING PROGRAM MUST BE SHOWN TO HAVE NEGLIGIBLE INFLUENCE ON SETTLEMENTS OF THE NYCT STRUCTURE.

21. SUBWAY ENTRANCES (VENTILATORS, ETC.) ARE TO BE UNDERPINNED OR SHORED AND BRACED IF DIRECTED BY NYCT'S ENGINEER.

22. NYCT, AT ITS DISCRETION, RESERVES THE RIGHT TO REQUIRE THE PROJECT TO CLOSE OR MAINTAIN AND PROTECT EXISTING SUBWAY ENTRANCES, VENTILATORS, ETC. ADJACENT TO THE PROJECT DURING CONSTRUCTION. SUCH CONSTRUCTION MAY INCLUDE UNDERPINNING, SHORING, BRACING AND ERECTION OF SUITABLE BARRICADES AND/OR CANOPIES AND SHIELDS. SUCH PROTECTION SHALL BE IN ACCORDANCE WITH DRAWINGS SUBMITTED TO NYCT FOR APPROVAL.

23. IF SHIELDS ARE TO BE INSTALLED TO PROTECT NYCT FACILITIES AND/OR THE PUBLIC, PLANS, SHOWING THE LOCATION, TYPE AND METHOD OF ATTACHMENT TO THE TRANSIT STRUCTURE MUST BE SUBMITTED TO NYCT FOR APPROVAL.

24. ALL LUMBER AND PLYWOOD USED FOR PROTECTION OF SUBWAY FACILITIES MUST BE FIRE RETARDANT.

25. SUBWAY EMERGENCY EXITS MUST BE KEPT CLEAR AT ALL TIMES.

26. IN EXCAVATING OVER OR NEAR THE SUBWAY ROOF, SPECIAL CARE SHALL BE EXERCISED SO THAT THE THIN CONCRETE PROTECTION OF THE SUBWAY WATERPROOFING IS NOT DAMAGED.

27. BURNING OF, WELDING TO OR DRILLING THROUGH EXISTING STEEL STRUCTURES WILL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS APPROVED BY NYCT.

28. HORIZONTAL AND VERTICAL CONTROL SURVEY DATA OF THE EXISTING NYCT STRUCTURE IS TO BE TAKEN BY A LICENSED LAND SURVEYOR TO MONITOR ANY MOVEMENTS THAT OCCUR DURING CONSTRUCTION AND TO SHOW THAT THE INDUCED MOVEMENTS ARE WITHIN ALLOWABLES PROVIDED AND APPROVED BY NYCTS ENGINEER. IF ANY MOVEMENTS EXCEED ALLOWABLES, REMEDIATION AS APPROVED BY NYCT SHALL BE PERFORMED.

29. BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE BUS DIVERSIONS. THESE ARRANGEMENTS SHALL BE MADE THROUGH:

MR. PAUL SANKOWSKI
DIRECTOR, OPERATIONS PLANNING
NEW YORK CITY TRANSIT
2 BROADWAY, ROOM A17.50
NEW YORK, NEW YORK 10004
TELEPHONE NUMBER (646) 252-5526

WHEN IMPACTING ANY BUS STOP, SPECIAL OPERATIONS MUST BE NOTIFIED TWO WEEKS IN ADVANCE.

30. DUCT LINES MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ANY INTERFERENCE WITH DUCT LINES SHOULD BE REPORTED TO NYCT INSPECTOR. WHEN A DUCT LINE CONTAINING CABLES IS TO BE REMOVED OR WHEN MASONRY ADJACENT THEREUNDER IS TO BE REMOVED, PENETRATED, OR DRILLED, THE WORK SHALL BE DONE WITH HAND LABOR ENTIRELY, USING HAMMER AND CHISEL. JACKHAMMERS, BULL POINTS OR OTHER POWER EQUIPMENT SHALL NOT BE USED.

31. WHERE MANHOLES ARE ENCOUNTERED:
A) THEY SHALL BE PROTECTED AND RAISED OR LOWERED AS REQUIRED, TO MATCH THE NEW STREET GRADE.
B) IF MANHOLE COVERS ARE RAISED OR LOWERED, PROTECT CABLES IN MANHOLE BY WOOD SHEETING OF 2" NOMINAL THICKNESS.
C) PRIOR TO THE START OF CONSTRUCTION OPERATIONS AFFECTING MANHOLES AND DUCT LINES, SEVEN DAYS NOTICE MUST BE GIVEN TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE OF WAY, AT (718) 694-1358.

32. CONSTRUCTION WORK DONE NEAR VENT GRATINGS AND HATCHES SHALL BE AS FOLLOWS:
A) UNLESS APPROVED BY THE NYCTS ENGINEER, ALL VENT GRATINGS AND HATCHES SHOULD REMAIN OUTSIDE THE CONSTRUCTION SITE, SEPARATED BY A CONSTRUCTION FENCE. PROTECTIVE SHIELDS MUST BE PROVIDED OVER VENT GRATINGS AS REQUIRED BY NYCTS ENGINEER.
B) NO BUILDING MATERIAL, VEHICLES OR CONSTRUCTION EQUIPMENT IS TO BE STORED OR RUN OVER VENT, GRATINGS, HATCHES OR EMERGENCY EXISTS.
C) DETAILS OF SIDEWALK RECONSTRUCTION AROUND VENT GRATINGS, HATCHES AND EMERGENCY EXITS ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

33. TRACTORS, CRANES, EXCAVATORS, ETC. USED IN THE VICINITY OF THE ELEVATED STRUCTURES SHALL BE ISOLATED FROM THE GROUND. SINCE THE ELEVATED STRUCTURE IS USED AS A NEGATIVE RETURN PATH, WITH A CONSEQUENT POTENTIAL BETWEEN IT AND THE GROUND, ANY CONTACT BETWEEN THE STRUCTURE AND GROUNDED EQUIPMENT COULD RESULT IN BURNING OF THE STEEL.

34. TEMPORARY CONSTRUCTION SHEDS, BARRICADES OR PLYWOOD PARTITIONS MUST BE A MINIMUM OF 5'-0" FROM EDGE OF FINISHED PLATFORM.

35. STATION AREAS OR STAIRWAY/CLOSINGS: THE GENERAL REQUIREMENTS FOR STATION AREAS OR STAIRWAY/CLOSINGS ARE AS FOLLOWS:
A) ONLY ONE STAIRWAY AT EACH STATION MAY BE PERMITTED TO BE CLOSED AT THE SAME TIME. APPROVALS FOR CLOSING ANY STAIRWAY MUST BE OBTAINED FROM THE DIVISION OF STATION OPERATIONS AT LEAST THREE WEEKS IN ADVANCE.
B) MR. AGNELO PATEL, DIRECTOR, OFFICE OF STATION PROGRAMS, TELEPHONE (718) 694-1645 OF THE DIVISION OF STATIONS MUST BE NOTIFIED ONE WEEK PRIOR TO THE ACTUAL CLOSING AND REOPENING OF THE ENTRANCE.
C) AMPLE SIGNAGE MUST BE SUPPLIED AND POSTED AT LEAST ONE WEEK IN ADVANCE, ADVISING THE PUBLIC OF THE PROPOSED SCHEDULE OF STAIR CLOSING.
D) THE STREET ENTRANCE STAIRWAY SHOULD NOT BE CLOSED UNLESS MANPOWER AND MATERIALS ARE AVAILABLE TO COMMENCE WORK ON DATES PERMITTED.
E) ONCE UNTIL FINAL ACCEPTANCE BY THE AUTHORITY, SIGNAGE MUST BE PLACED AT APPROPRIATE LOCATIONS ON THE BARRICADES AT THE STREET AND MEZZANINE LEVELS, STATING THE CONTRACTOR'S NAME, 24 HOUR EMERGENCY TELEPHONE NUMBER, DURATION OF THE CLOSING, DIRECTION TO AN ALTERNATE ENTRANCE/EXIT, AND AN APOLOGY FOR THE INCONVENIENCE TO OUR CUSTOMERS.
F) EXISTING STATION SIGNAGE MUST BE ADJUSTED TO REFLECT ANY CHANGES IN ACCESS/EGRESS.
G) BARRICADES ARE TO BE PAINTED AND KEPT GRAFFITI FREE AT ALL TIMES. THE CONTRACTOR MUST MAINTAIN THE BARRICADED AREA CLEAN OF ALL DEBRIS.
H) ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM PASSENGER TRAFFIC.
I) THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL AND BARRICADES FROM ALL STATION AREAS WHEN CONSTRUCTION IS COMPLETED.
J) INSPECTION OF THE AREA UNDER CONSTRUCTION BY AUTHORIZED STATION DEPARTMENT EMPLOYEES SHALL NOT BE INHIBITED.
K) IF STREET LIGHTS ON THE SIDEWALKS ARE AFFECTED, TEMPORARY LIGHTS SHALL BE PROVIDED.

36. IF NEW CONCRETE CONSTRUCTION IS JOINED TO EXISTING CONCRETE, DOWELS AND KEYWAYS ARE TO BE USED IN ACCORDANCE WITH NYCT STANDARDS.

37. IF THE PROJECT INVOLVES CONSTRUCTION OR ALTERATION OF A SUBWAY FACILITY ON PRIVATE PROPERTY, THE PROPERTY OWNERS WILL BE REQUIRED TO ENTER INTO AN AGREEMENT WITH NYCT PERTAINING TO ALL WORK AFFECTING THE TRANSIT FACILITIES AND CLEARLY DEFINING LIMITS AND RESPONSIBILITY FOR MAINTENANCE AND LIABILITY.

38. WHEREVER A NEW SIDEWALK IS BEING PLACED ADJACENT TO NYCT STRUCTURES THE FOLLOWING WILL BE REQUIRED:
A) THE TOP OF THE NEW SIDEWALK SHALL BE FLUSH WITH THE SUBWAY VENT GRATINGS, HATCHES AND EMERGENCY EXITS.
B) THE SLOPE OF THE NEW SIDEWALK SHALL BE SUCH THAT THE DRAINAGE BE AWAY FROM THESE STRUCTURES.
C) A 1/2" PREMOLDED FILLER SHALL BE INSTALLED BETWEEN THE NEW SIDEWALK AND NYCT STRUCTURE.
D) WHERE SIDEWALK ELEVATIONS ARE BEING CHANGED DETAILS OF PROPOSED WORK AROUND NYCT STRUCTURES ARE TO BE SUBMITTED FOR APPROVAL.

39. BEFORE THE START OF ANY WORK, THE CONTRACTOR SHALL MAKE AN EXAMINATION IN THE PRESENCE OF NYCT'S ENGINEER OF THE INTERIOR AND EXTERIOR OF NYCT SUBWAY OR OTHER STRUCTURE ADJACENT TO THE PROPOSED WORK. THE PERSON OR PERSONS AUTHORIZED BY THE CONTRACTOR TO MAKE THESE EXAMINATIONS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PHOTOGRAPHS AS MAY BE NECESSARY OR ORDERED TO INDICATE THE EXISTING CONDITION OF NYCT STRUCTURE. ONE COPY OF EACH PHOTOGRAPH, EIGHT INCHES BY TEN INCHES IN SIZE, AND THE NEGATIVE IS TO BE SUBMITTED TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE-OF-WAY, 130 LIVINGSTON STREET, ROOM 8044D, BROOKLYN, NEW YORK, 11201 TELELPHONE (718) 694-1358 BEFORE THE START OF CONSTRUCTION.

40. ALL ARCHITECTURAL DETAILS (TOKEN BOOTHS, RAILINGS, DOORS, ETC.) ARE TO CONFORM TO THE LATEST NYCT STANDARDS. THESE STANDARDS ARE AVAILABLE AT NYCT.

41. STANDARD NYCT INSURANCE CLAUSES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS. PROOF THAT THE NECESSARY INSURANCE IS IN EFFECT WILL BE REQUIRED BEFORE WORK CAN COMMENCE.

42. AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO TRANSIT FACILITIES, ONE SET OF VELLUMS OR MYLARS, FIVE SETS OF 35MM MICROFILM, AND ELECTRONIC COPIES COMPLYING TO MICROSTATION.DGN FORMAT OF "APPROVED AS-BUILTS" MUST BE PROVIDED TO NYCT FOR ITS RECORDS. FOR DETAILS OF SPECIFIC REQUIREMENTS CONTACT NYCT OUTSIDE PROJECTS.

43. AL LEAST SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OPERATIONS, NOTIFICATION MUST BE GIVEN TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE-OF-WAY, AT (718) 694-1358. THE CONTRACTOR TO PROVIDE TEMPORARY QUARTERS NEAR THE JOB SITE FOR NYCT INSPECTORS CONTAINING A DESK AND TELEPHONE.

DOB WILL BE NOTIFIED 24-48 HOURS PRIOR TO THE COMMENCEMENT OF EARTHWORK

A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES (INCLUDING DEATH) TO PERSONS (INCLUDING, BUT NOT LIMITED TO EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS AND EMPLOYEES OF THE CITY OF NEW YORK (HEREINAFTER CALLED THE CITY) OR THE NEW YORK CITY TRANSIT AUTHORITY (HEREINAFTER CALLED THE AUTHORITY) OR DAMAGE TO PROPERTY (INCLUDING BUT NOT LIMITED TO, PROPERTY OF THE CITY, THE AUTHORITY OR THE CONTRACTOR OR SUBCONTRACTORS) OCCURRING ON ACCOUNT OF OR IN CONNECTION WITH PERFORMANCE OF THE WORK HERE UNDER AND SHALL INDEMNIFY AND SAVE HARMLESS THE CITY AND THE AUTHORITY FROM LOSS AND LIABILITY UPON ANY AND ALL CLAIMS ON ACCOUNT OF SUCH INJURIES TO PERSONS OF DAMAGE TO PROPERTY, AND FROM ALL COST AND EXPENSES IN SUITS WHICH MAY BE BROUGHT AGAINST THE CITY AND/OR THE AUTHORITY FOR SUCH INJURIES TO PERSONS OR DAMAGE TO PROPERTY, IRRESPECTIVE OF THE ACTUAL CAUSE OF THE ACCIDENT AND IRRESPECTIVE OF WHETHER IT SHALL HAVE BEEN DUE TO NEGLIGENCE ON THE CONTRACTOR OR HIS SUBCONTRACTORS OR NEGLIGENCE OF THE CITY OR AUTHORITY, THEIR RESPECTIVE AGENTS, SERVANTS OR EMPLOYEES, OR OF ANY OTHER PERSON BUT EXCEPTING INJURIES AND PROPERTY DAMAGE CAUSED BY OR RESULTING FROM THE SOLE NEGLIGENCE OF THE CITY AND/OR THE AUTHORITY ACTING AS AGENT OF THE CITY HERE UNDER. THE TERM "LOSS AND LIABILITY" AS USED ABOVE, SHALL BE DEEMED TO INCLUDE, BUT NOT TO BE LIMITED TO , LIABILITY FOR THE PAYMENT OF WORKERS COMPENSATION BENEFITS UNDER THE WORKERS COMPENSATION LAW OF THE STATE OF NEW YORK, AND THE CONTRACTOR SPECIFICALLY COVENANTS TO REIMBURSE THE AUTHORITY AND THE CITY FOR AFT PAYMENTS OF WORKERS COMPENSATION BENEFITS, INCLUDING BUT NOT LIMITED TO BENEFITS PAID TO EMPLOYEES OF THE AUTHORITY AND THE CITY WHICH THE AUTHORITY OR THE CITY SHALL BE REQUIRED TO MAKE TO ANY EMPLOYEE WHO SHALL CLAIM TO HAVE SUSTAINED INJURIES ON ACCOUNT OF OR IN CONNECTION WITH THE WORK HERE UNDER, WHETHER OR NOT SUCH INJURIES SHALL HAVE BEEN SUSTAINED AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, HIS SUBCONTRACTORS, THE AUTHORITY OR THE CITY, THEIR RESPECTIVE AGENTS, SERVANTS OR EMPLOYEES, OR NEGLIGENCE OF THE INJURED EMPLOYEE, BUT EXCEPTING BODILY INJURIES AND PROPERTY DAMAGE CAUSED BY OR RESULTING FROM THE SOLE NEGLIGENCE OF THE CITY AND/OR THE AUTHORITY ACTING AS AGENT OF THE CITY HEREUNDER.

B. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SUPPORT, MAINTENANCE, SAFETY AND PROTECTION OF THE TRANSIT FACILITIES OF THE NEW YORK CITY TRANSIT SYSTEM (HEREINAFTER CALLED THE RAILROAD) AND THE SAFETY AND PROTECTION OF ALL PERSONS, PASSENGERS, INTENDING PASSENGERS OR EMPLOYEES AND OTHER PERSONS, AND OF ALL PROPERTY THEREIN, AND HE/SHE SHALL BE SOLELY RESPONSIBLE AND LIABLE FOR ANY INJURY AND DAMAGE THEREOF TO PERSONS OR DAMAGE TO PROPERTY THEREIN OCCURRING ON ACCOUNT OF OR IN CONNECTION WITH THE PERFORMANCE OF WORK UNDER THIS CONTRACT WHETHER DUE TO THE NEGLIGENCE, FAULT OR DEFAULT OF THE CONTRACTOR OR NOT

THE CONTRACTOR SHALL FULLY PROTECT AND INDEMNIFY THE CITY AND THE AUTHORITY FROM LOSS AND FROM LIABILITY UPON ANY AND ALL CLAIMS ON ACCOUNT OF DAMAGE TO THE RAILROAD, OR ON ACCOUNT OF SUCH INJURIES TO PASSENGERS, INTENDING PASSENGERS, EMPLOYEES OR OTHER PERSONS OR DAMAGE TO PROPERTY, OR ON ACCOUNT OF INTERRUPTION OF TRAIN OPERATION, OR ON ACCOUNT OF ANY WORK DONE BY THE CONTRACTOR ON OR AFFECTING THE RAILROAD, AND FROM ANY COSTS AND EXPENSES IN SUITS WHICH MAY BE BROUGHT AGAINST THE CITY AND/OR THE AUTHORITY FOR SUCH INJURIES OR DAMAGE.

C. IN CASE ANY DAMAGE SHALL OCCUR TO ANY PART OF THE RAILROAD ON ACCOUNT OF OR IN CONNECTION WITH THE WORK HEREUNDER AND THE CONTRACTORS IS RESPONSIBLE THEREFORE PURSUANT TO PARAGRAPH (A) HEREOF, THE CITY AND/OR THE AUTHORITY SHALL HAVE THE RIGHT TO CAUSE SUCH DAMAGE TO BE REPAIRED AND CHARGE THE EXPENSE OF SUCH REPAIRS TO THE CONTRACTOR AND TO BE REIMBURSE FOR THE AMOUNT OF SUCH EXPENSE FROM ANY MONEYS DUE OR BECOMING DUE TO THE CONTRACTOR HEREUNDER

D. APPROVAL BY THE CHIEF ENGINEER, MAINTENANCE OF WAY, OF THE METHODS OF DOING THE WORK OR THE FAILURE OF THE CHIEF ENGINEER TRACK STRUCTURES, TO CALL ATTENTION TO IMPROPER OR INADEQUATE METHODS OR TO REQUIRE A CHANGE IN METHODS OR TO DIRECT THE CONTRACTOR TO MAKE ANY PARTICULAR INSPECTION OR TO REFRAIN FROM DOING ANY PARTICULAR THING SHALL NOT EXCUSE THE CONTRACTOR IN CASE OF ANY SUCH INJURY TO PERSON OR DAMAGE TO PROPERTY IT IS UNDERSTOOD AND AGREED TO IF DURING THE COURSE OF THE WORK UNDER THIS CONTRACT, WATCHMEN, FLAGMEN AND OTHER EMPLOYEES OF THE CITY AND/OR THE AUTHORITY ARE ASSIGNED TO PERFORM WORK IN CONNECTION THEREWITH, SUCH EMPLOYEES ARE TO BE CONSIDERED AS EMPLOYEES OF THE CONTRACTOR.

E. THE CONTRACTOR SHALL PROCURE, AT ITS SOLE COST AND EXPENSE, AND SHALL PROCURE AT ITS SOLE COST AND EXPENSE, AND SHALL MAINTAIN IN FORCE AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE AUTHORITY, INSURANCE AS HEREIN BELOW SET FORTH, WRITTEN BY COMPANIES APPROVED BY THE AUTHORITY AND SHALL DELIVER TO THE AUTHORITY EVIDENCE OF SUCH POLICIES. A CERTIFICATE OF INSURANCE MAY BE SUPPLIED AS EVIDENCE OF SUCH POLICIES, PROVIDED, HOWEVER, THAT UPON THE AUTHORITY, THE CONTRACTOR SHALL DELIVER TO THE AUTHORITY A COPY OF SUCH POLICIES, CERTIFIED BY THE INSURANCE CARRIER AS BEING A TRUE AND COMPLETE COPY. THE CERTIFICATE OF INSURANCE AND INSURANCE POLICIES MUST (1.) INDICATE THE I.S. O. FORM USED BY THE CARRIER (2) HE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE BROKER OR THE INSURANCE CAREER, (3.) DISCLOSE ANY DEDUCTIBLES, SELF-INSURED RETENTION (DEDUCTIBLES OR SELF-INSURED RETENTIONS ABOVE $25,000 WILL REQUIRE APPROVAL FROM THE AUTHORITY), AGGRESATE LIMIT OR ANY EXCLUSIONS TO THE POLICY THAT MATERIALLY CHANGE THE COVERAGE; (4.) INDICATE THAT THE NYCTA, MABSTOA, SIRTOA, MTA, ITS SUBSIDIARIES AND AFFILIATED COMPANIES AND THE CITY OF NEW YORK AND ALL OTHER INDEMNIFIED PARTIES INCLUDED IN THE CONTRACT ARE NAMED AS ADDITIONAL INSUREDS ON ALL POLICIES (EXCEPT WORKERS COMPENSATION OR PROFESSIONAL LIABILITY); (5.) REFERENCE THE CONTRACT ON THE FACE OF THE CERTIFICATE, (6.) INDICATE A SPECIAL CANCELLATION PROVISION (WHICH SHALL READ "THE AUTHORITY IS INTERESTED IN THE MAINTENANCE OF THIS INSURANCE, AND IT IS AGREED THAT THIS INSURANCE WILL NOT BE CANCELED, MATERIALLY CHANGED OR NOT RENEWED WITHOUT AT LEAST 30 DAYS PRIOR WRITTEN NOTICE TO THE AUTHORITY, ATTENTION DIRECTOR - RISK MANAGEMENT, ROOM 1006-4, 130 LIVINGSTON STREET, BROOKLYN, NEW YORK 11201, BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED"), AND (7.) INDICATE THAT THE COVERAGE AFFORDED UNDER THE POLICIES SHALL APPLY AS PRIMARY AND NOT EXCESS OR CONTRIBUTING BASIS WITH ANY POLICIES WHICH MAY BE AVAILABLE TO THE AUTHORITY. AT LEAST TWO WEEKS PRIOR TO THE EXPIRATION OF THE ORIGINAL POLICIES OR ANY RENEWAL OR REPLACEMENT POLICIES OF INSURANCE, WITH THE SAME TERMS AND LIMITS AS EXPIRING, SHALL BE DELIVERED TO THE AUTHORITY.

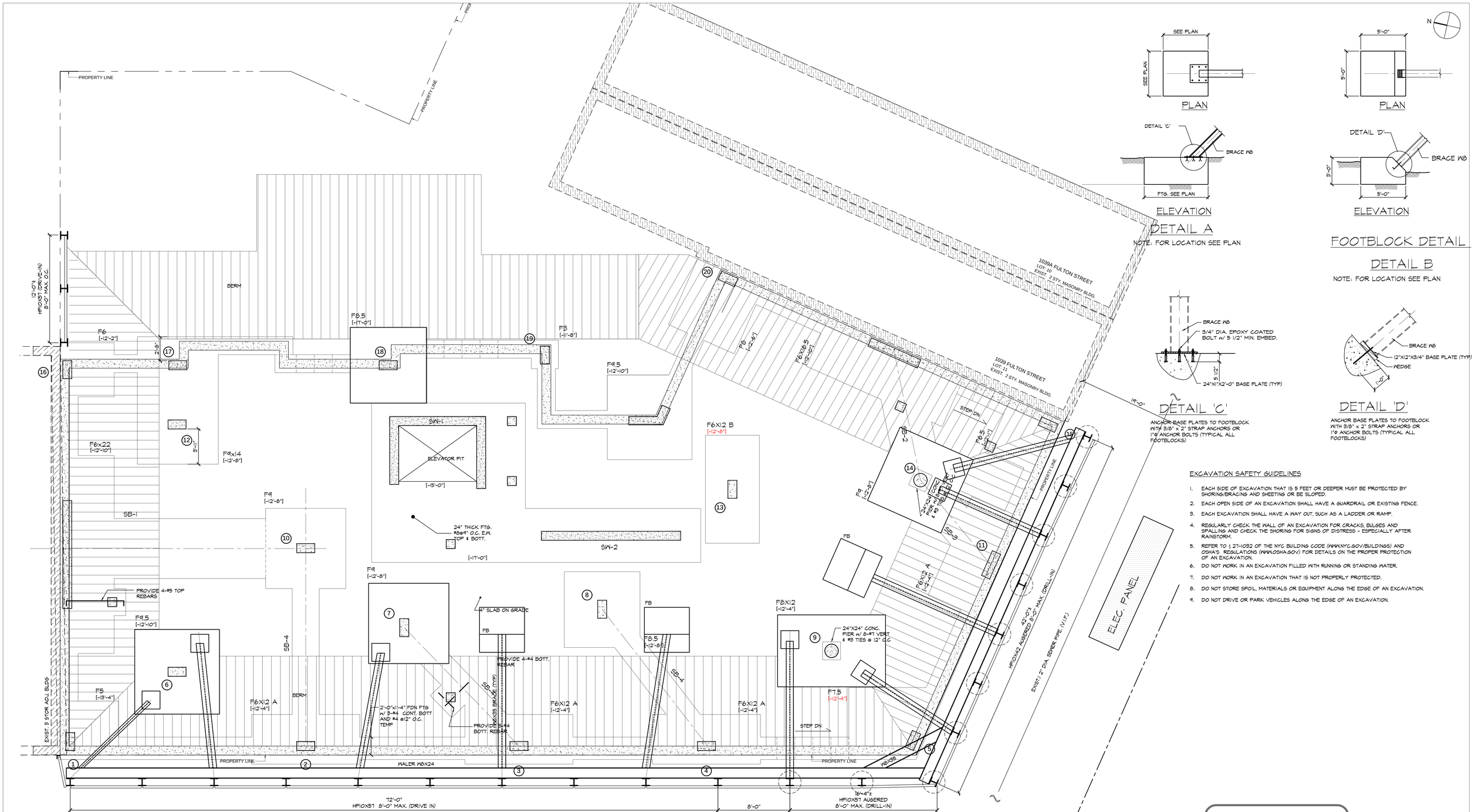
NYCT "OUTSIDE CONTRACT" INSURANCE REQUIREMENTS

A. WORKER'S COMPENSATION INSURANCE (INCLUDING EMPLOYER'S LIABILITY INSURANCE WITH LIMITS OF NOT LESS THAN $2,000,000, WHICH LIMIT MAY BE MET BY A COMBINATION OF PRIMARY AND EXCESS INSURANCE) MEETING THE STATUTORY LIMITS OF NEW YORK STATE. WHEN APPLICABLE, THE POLICY SHALL BE ENDORSED TO INCLUDE THE LONGSHORE AND HARBOR WORKERS' COMPENSATION ACT AND/OR MARITIME COVERAGE ENDORSEMENT (JONES ACT ENDORSEMENT).

B. A COMMERCIAL GENERAL LIABILITY INSURANCE POLICY (I.S.O. FORM CG 00 11 88 OR EQUIVALENT) IN THE CONTRACTOR'S NAME WITH THE NEW YORK CITY TRANSIT AUTHORITY (NYCTA), MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY (MOBSTOA), STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY (SIRTOA), METROPOLITAN TRANSPORTATION AUTHORITY (MTA), ITS SUBSIDIARIES AND AFFILIATED COMPANIES, THE CITY OF NEW YORK AND ALL OTHER INDEMNIFIED PARTIES INCLUDED IN THE CONTRACT AS ADDITIONAL INSUREDS (I.S.O. FORM CG 20 10) WITH LIMITS OF LIABILITY OF $2,000,000 EACH OCCURRENCE ON A COMBINED SINGLE LIMIT BASIS (AGGRESATE MUST BE AT LEAST $4,000,000) FOR INJURIES (BODILY INJURIES, INCLUDING DEATH AND PERSONAL INJURIES) TO PERSONS AND FOR DAMAGE TO PROPERTY. SUCH POLICIES SHALL INCLUDE:
B.1. CONTRACTUAL COVERAGE FOR LIABILITY ASSUMED BY THE CONTRACTOR UNDER THIS CONTRACT.
B.2. PERSONAL AND ADVERTISING INJURY COVERAGE.
B.3. PRODUCTS AND COMPLETED OPERATIONS EXTENDING AT LEAST ONE YEAR AFTER PROJECT COMPLETION
B.4. INDEPENDENT CONTRACTORS COVERAGE.
B.5. "XCU" COVERAGE (EXPLOSION, COLLAPSE, AND UNDERGROUND HAZARDS) WHERE NECESSARY
B.6. CONTRACTUAL LIABILITY EXCLUSION, APPLICABLE TO CONSTRUCTION OR DEMOLITION OPERATIONS TO BE PERFORMED WITHIN 50 FEET OF RAILROAD TRACKS, MUST BE REMOVED, WHERE NECESSARY.
B.7. ADDITIONAL INSURED ENDORSEMENT (I.S.O. FORM CG 20 10 1185 VERSION OR EQUIVALENT APPROVED BY THE AUTHORITY) NAMING THE FOLLOWING ENTITIES AND THEIR SUBSIDIARIES AND AFFILIATES

C. A RAILROAD PROTECTIVE LIABILITY (OR OWNER

DEPT OF BLDGS 520991739 Job Number
ES048631068 Scan Code



PLAN

ELEVATION

DETAIL A

NOTE: FOR LOCATION SEE PLAN

PLAN

ELEVATION

FOOTBLOCK DETAIL

DETAIL B

NOTE: FOR LOCATION SEE PLAN

DETAIL 'C'

ANCHOR BASE PLATES TO FOOTBLOCK WITH 3/8" x 2" STRAP ANCHORS OR 1"Ø ANCHOR BOLTS (TYPICAL ALL FOOTBLOCKS)

DETAIL 'D'

ANCHOR BASE PLATES TO FOOTBLOCK WITH 3/8" x 2" STRAP ANCHORS OR 1"Ø ANCHOR BOLTS (TYPICAL ALL FOOTBLOCKS)

EXCAVATION SAFETY GUIDELINES

1. EACH SIDE OF EXCAVATION THAT IS 5 FEET OR DEEPER MUST BE PROTECTED BY SHORING/BRACING AND SHEETING OR BE SLOPED.
2. EACH OPEN SIDE OF AN EXCAVATION SHALL HAVE A GUARDRAIL OR EXISTING FENCE.
3. EACH EXCAVATION SHALL HAVE A WAY OUT, SUCH AS A LADDER OR RAMP.
4. REGULARLY CHECK THE WALL OF AN EXCAVATION FOR CRACKS, BULGES AND SPALLING AND CHECK THE SHORING FOR SIGNS OF DISTRESS - ESPECIALLY AFTER RAINSTORM.
5. REFER TO § 27-1032 OF THE NYC BUILDING CODE (WWW.NYC.GOV/BUILDINGS) AND OSHA'S REGULATIONS (WWW.OSHA.GOV) FOR DETAILS ON THE PROPER PROTECTION OF AN EXCAVATION.
6. DO NOT WORK IN AN EXCAVATION FILLED WITH RUNNING OR STANDING WATER.
7. DO NOT WORK IN AN EXCAVATION THAT IS NOT PROPERLY PROTECTED.
8. DO NOT STORE SPOIL, MATERIALS OR EQUIPMENT ALONG THE EDGE OF AN EXCAVATION.
9. DO NOT DRIVE OR PARK VEHICLES ALONG THE EDGE OF AN EXCAVATION.

EXCAVATION PLAN

SCALE: 1/4"=1'-0"

TEMPORARY SOIL, CONSTRUCTION MATERIAL OR EQUIPMENT SHALL NOT BE PLACED CLOSER TO THE EDGE OF EXCAVATION THAN A DISTANCE EQUAL TO 1½ TIMES THE DEPTH OF EXCAVATION.

Clara Gomez

NYC Building

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: dlevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 28 West 23rd St. 5th Floor New York NY 10001 212-268-5900 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EXCAVATION PLAN AND DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. -- 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-06-2014	STATE OF NEW YORK GENNADY SARATOVSKY LICENSED PROFESSIONAL ENGINEER	SOE-100.00 2 OF 24

2013.465

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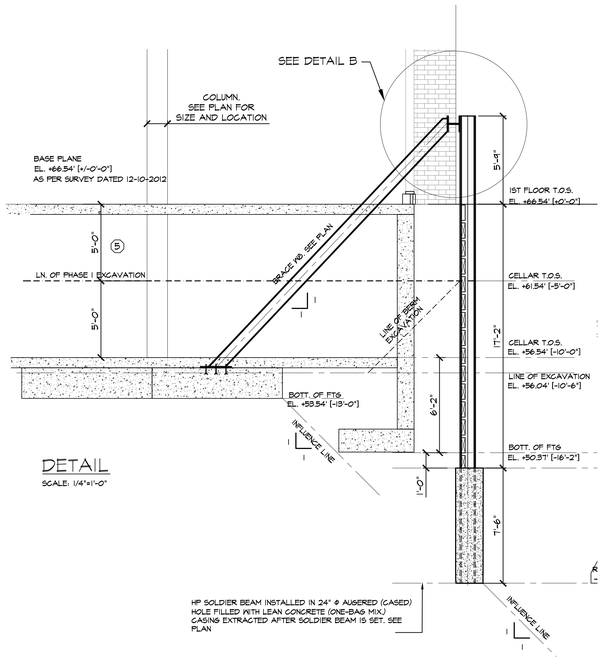
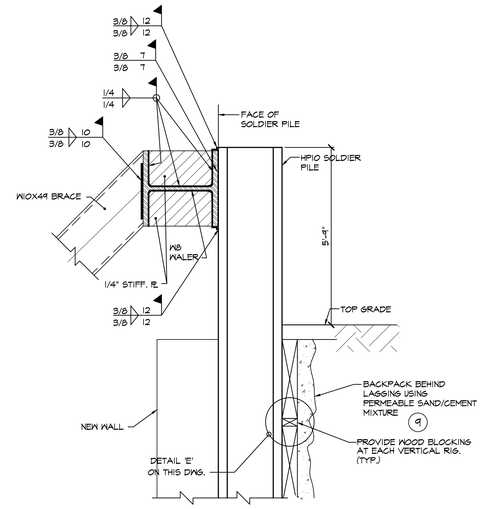
SEQUENCE OF CONSTRUCTION

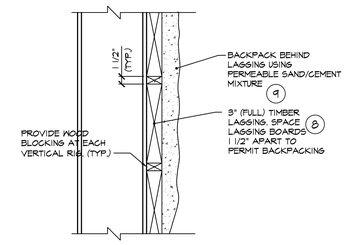
1. INSTALL VIBRATION MONITORING DEVICE FOR T/A STRUCTURE. SEE PLAN AND SECTION FOR LOCATION. BEFORE AUGERING CASINGS, CONTRACTOR TO VERIFY LOCATION OF, AND CLEAR.
2. ALL UTILITY LINES UNDER SIDEWALK SHALL BE LOCATED AND MARKED
3. AUGER 24" DIAMETER STEEL CASINGS TO TIP ELEVATION 24'-8" BELOW SIDEWALK. CASINGS SHALL NOT BE DRIVEN. MAINTAIN A SOIL PLUG AT BOTTOM OF CASING AT ALL TIMES. MAINTAIN A POSITIVE WATER HEAD IN THE CASING TO PREVENT INFLOW OF SOIL AND WATER INTO THE CASING.
4. CLEAN OUT CASING TO 3'-0" ABOVE TIP ELEVATION OF SOLDIER PILE. MAINTAINING 3 FEET OF SOIL PLUG OR USING DRILLING "MUD" TO PREVENT INFLOW OF SOIL AND WATER INTO THE CASING. INSTALL SOILDER BEAM CENTERED IN CASING. FILL CASING TO EXISTING GRADE WITH LEAN CONCRETE (ONE BAG PER CUBIC YARD) AND EXTRACT CASING.
5. EXCAVATE TO EL. [-5'-0"] +61.54. EXCAVATION TO PROCEED IN TIERS NOT TO EXCEED 2 FEET IN HEIGHT AND PHASE AS SHOWN ON SOE-100. LAGGING TO BE BACKPACKED BEFORE EXCAVATING NEXT TIER.
6. INSTALL WALE WITH CENTERLINE AT EL. 72.29 [+5'-9"]. WELD WALE TO EVERY SOLDIER BEAM AS SHOWN AND SHORING BETWEEN SOLDIER BEAM AND WALE WHEREVER NECESSARY TO INSURE CONTACT BETWEEN SOILDER BEAM AND WALE. INSTALL DIAGONAL STRUT. LEAVING SOIL BERM UP AGAINST SOILDER BEAMS, EXCAVATE LOCALLY FOR
7. FOOTBLOCKS NO CLOSER THAN 14 FEET FROM FACE OF SOLDIER BEAMS. CONSTRUCT FOOTBLOCKS. INSTALL STEEL RAKERS BY WELDING THEM TO SOLDIER
8. PILE AT TOP AS SHOWN, AND WEDGING STEEL WEDGES AT BOTTOM TO ELIMINATE ALL SLACK FROM SYSTEM.
9. EXCAVATE TO SUB-GRADE ELEVATION 56.04 [-10'-6"], CONTINUING TO INSTALL TIMBER LAGGING AS EXCAVATION PROGRESSES. EXCAVATION TO PROCEED IN TIERS NOT TO EXCEED 2 FEET IN HEIGHT. LAGGING TO BE BACKPACKED BEFORE EXCAVATING NEXT TIER.
10. TIMBER LAGGING BOARDS SHALL BE "LOUVERED", THAT IS SPACED 1 1/2" TO 2" APART TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS BEHIND THE LAGGING. LAGGING SHALL BE BACKPACKED WITH PERMEABLE MATERIAL TO PREVENT ANY BUILD-UP OF HYDROSTATIC PRESSURE BEHIND SHEETING. SEE "DETAIL E." INSTALL ALL FOOTING FOR COLUMNS, SHEAR WALLS AND PERIMETER WALLS
11. INSTALL ALL SLAB ON GRADE AT ELEVATIONS AS SHOWN ON PLAN
12. INSTALL COLUMNS, SHEAR AND WALLS PERIMETER WALLS
13. INSTALL FIRST FLOOR FRAMED SLAB AT ELEVATION SHOWN ON PLAN.
14. AFTER 21 DAYS OF CONCRETE CURING, EXCAVATE AND EXPOSE SOLDIER PIERS
15. AND LOGGING 2 FT BELOW FUTURE SIDEWALL ELEVATION. CUT RAKERS, WALERS, SOLDIER PILES AND LOGGING. FILL 2'-0" SPACE WITH COMPACTED FILL



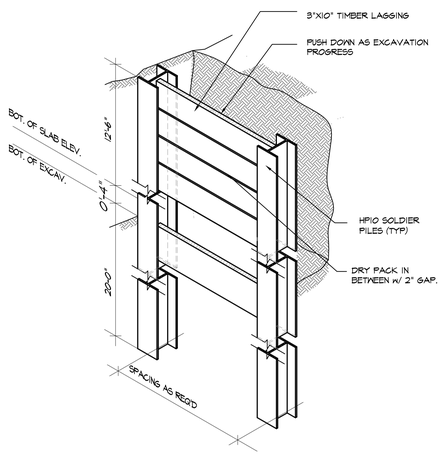
DETAIL
SCALE: 1/4"=1'-0"



DETAIL B
N.T.S.

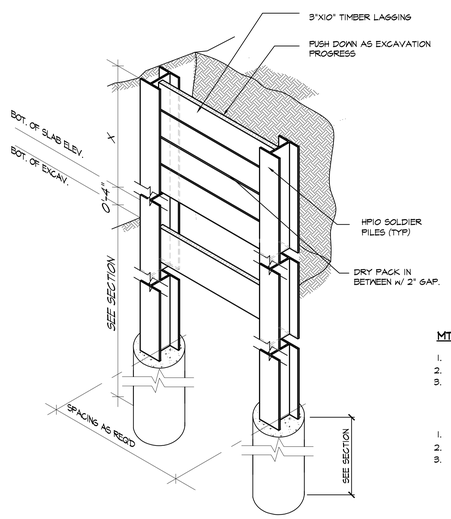


DETAIL C
N.T.S.



TYP. SHORING DETAIL (DRIVE IN PILES)
SCALE: N.T.S.

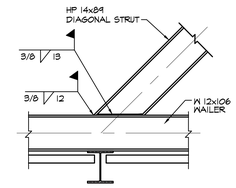
SHOWN THUS ON PLAN



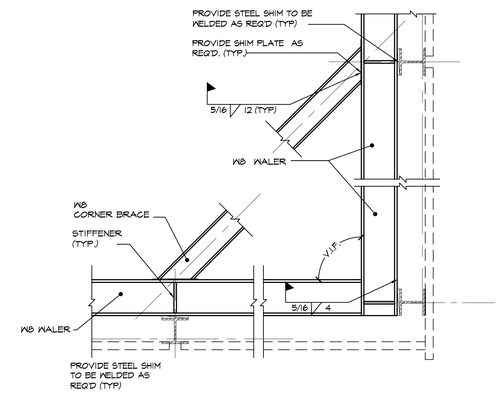
TYP. PILES DETAIL
(DRILL-IN) CLOSE TO MTA
NOTE: BRACING AND WALERS NOT SHOWN FOR CLARITY.

SCALE: N.T.S.
NOTE: CASING SHALL NOT BE PULLED OUT

SHOWN THUS ON PLAN



WALE/DIAGONAL
STRUT CONNECTION
SCALE: 1/2"=1'-0"



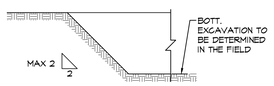
WALE / WALE CORNER CONNECTION DETAIL
SCALE: 1/2"=1'-0"

MTA SOLDIER PILE INSTALLATION NOTES:

1. ALL PILES SHALL BE INSTALLED IN THE LOCATION SHOWN ON THESE DRAWINGS.
2. PERFORM UTILITY IDENTIFICATION AND EXPLORATION AS NECESSARY.
3. THE SOLDIER PILES SHALL BE HP10x42 AND HP10x57 AND SHALL BE INSTALLED USING A CASING PREDRILLED AT THE LOCATION. THE CASING USED FOR PILE INSTALLATION SHALL BE LARGE ENOUGH TO HOUSE THE HP10x42 AND HP10x57

INSTALLATION PROCEDURES:

1. SET UP THE RIG ON PROPER LOCATION AND PLUMB THE MAST.
2. INSTALL FIRST PIECE OF CASING WITH ATTACHED CARBIDE CUTTING TEETH.
3. DRILL CASING DOWN AND MAINTAIN POSITIVE FLUID HEAD AT ALL TIMES. DRILLING TO BE PERFORMED USING INTERNAL FLUSH METHOD. OUTSIDE CASING SHALL REMAIN AHEAD OF THE INTERNAL FLUSHING BY A MINIMUM OF 2 FEET. IF OBSTRUCTIONS ARE ENCOUNTED OR IF OUTSIDE CASING GETS STUCK, ADVANCE INNER CASING THROUGH OBSTRUCTION OR UNTIL OUTER CASING CAN REVOLVE, AND THEN RESUME STANDARD PROCEDURE OF 2 FOOT LEAD OF THE OUTSIDE CASING. IF EXISTING CONCRETE IS DISCOVERED DURING DRILLING PROGRESS, FOLLOW TA GENERAL NOTE 15, PERTAINING TO THE USE DOWN-THE-HOLE-HAMMER.
4. FOLLOW UP WITH ADDITIONAL CASING TO ELEVATION SHOWN ON THESE DRAWINGS.
5. REMOVE INNER CASING.
6. FLUSH INSIDE OF CASING CLEAN OF SPOILS.
7. INSERT THE HP10x42 SOLDIER PILE INTO THE CASING.
8. FILL THE VOIDS WITHIN THE CASING USING ONE BAG SAND/CEMENT MIX FOR THE SOCKET.



TYPICAL SECTION
THRU THE BERM
SCALE: 1/8"=1'-0"

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-418-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York,NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	SECTION AND DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. – 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-06-2014	STATE OF NEW YORK RANDY SARA LICENSED PROFESSIONAL ENGINEER	SOE-101.00 3 OF 24

2013.465

DEPT OF BLDGS 520991739 Job Number
E500815935 Scan Code

LEGENDS:

- INDICATES LINE OF SLAB
- INDICATES PROPERTY LINE
- INDICATES SLAB OPENING
- INDICATES NEW RCWALL
- INDICATES NEW FOOTING

NOTES:

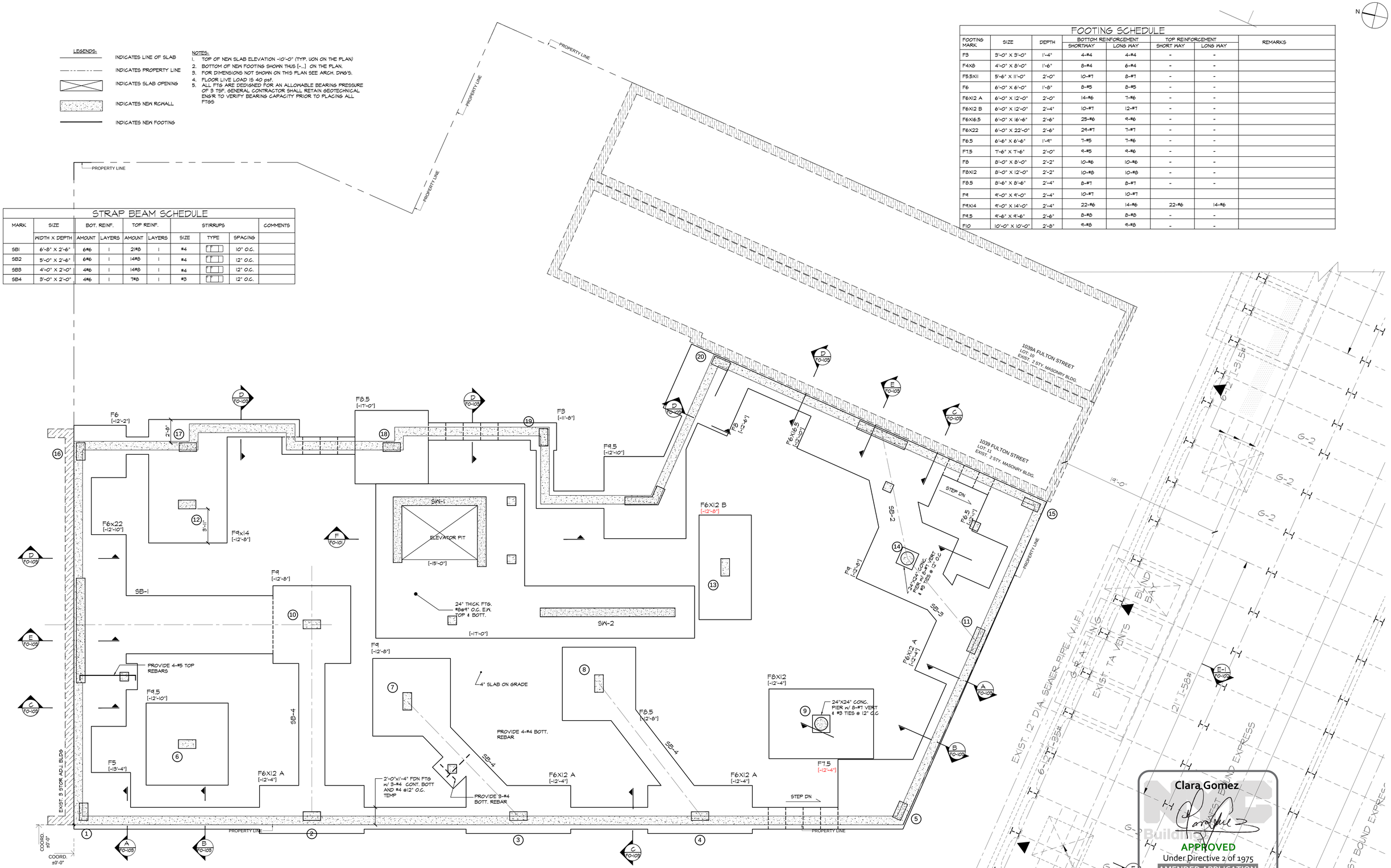
1. TOP OF NEW SLAB ELEVATION -10'-0" (TYP. UON ON THE PLAN)
2. BOTTOM OF NEW FOOTING SHOWN THUS [-...] ON THE PLAN.
3. FOR DIMENSIONS NOT SHOWN ON THIS PLAN SEE ARCH. DWG'S.
4. FLOOR LIVE LOAD IS 40 psf.
5. ALL FTG ARE DEDIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3 TSF. GENERAL CONTRACTOR SHALL RETAIN GEOTECHNICAL ENGR TO VERIFY BEARING CAPACITY PRIOR TO PLACING ALL FTGS

STRAP BEAM SCHEDULE

MARK	SIZE	BOT. REINF.		TOP REINF.		STIRRUPS			COMMENTS
	WIDTH X DEPTH	AMOUNT	LAYERS	AMOUNT	LAYERS	SIZE	TYPE	SPACING	
SB1	6'-8" X 2'-6"	6#6	1	21#8	1	#4		10" O.C.	
SB2	5'-0" X 2'-6"	6#6	1	14#8	1	#4		12" O.C.	
SB3	4'-0" X 2'-0"	4#6	1	14#8	1	#4		12" O.C.	
SB4	3'-0" X 2'-0"	4#6	1	7#8	1	#3		12" O.C.	

FOOTING SCHEDULE

FOOTING MARK	SIZE	DEPTH	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		REMARKS
			SHORTWAY	LONG WAY	SHORT WAY	LONG WAY	
F3	3'-0" X 3'-0"	1'-4"	4-#4	4-#4	-	-	
F4X8	4'-0" X 8'-0"	1'-6"	8-#4	6-#4	-	-	
F5.5X11	5'-6" X 11'-0"	2'-0"	10-#7	8-#7	-	-	
F6	6'-0" X 6'-0"	1'-8"	8-#5	8-#5	-	-	
F6X12 A	6'-0" X 12'-0"	2'-0"	14-#6	7-#6	-	-	
F6X12 B	6'-0" X 12'-0"	2'-4"	10-#7	12-#7	-	-	
F6X16.5	6'-0" X 16'-6"	2'-6"	25-#6	9-#6	-	-	
F6X22	6'-0" X 22'-0"	2'-6"	29-#7	7-#7	-	-	
F6.5	6'-6" X 6'-6"	1'-9"	7-#5	7-#6	-	-	
F7.5	7'-6" X 7'-6"	2'-0"	9-#5	9-#6	-	-	
F8	8'-0" X 8'-0"	2'-2"	10-#6	10-#6	-	-	
F8X12	8'-0" X 12'-0"	2'-2"	10-#8	10-#8	-	-	
F8.5	8'-6" X 8'-6"	2'-4"	8-#7	8-#7	-	-	
F9	9'-0" X 9'-0"	2'-4"	10-#7	10-#7			
F9X14	9'-0" X 14'-0"	2'-4"	22-#6	14-#6	22-#6	14-#6	
F9.5	9'-6" X 9'-6"	2'-6"	8-#8	8-#8	-	-	
F10	10'-0" X 10'-0"	2'-8"	9-#8	9-#8	-	-	



CELLAR/FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

Clara Gomez

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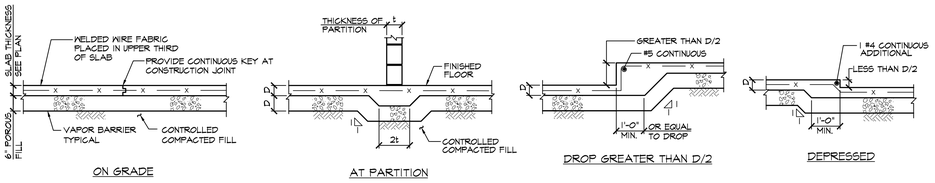
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

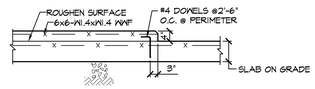
OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO
STERLING TOWN 40-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CELLAR/FOUNDATION PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GANDY SARAFOV LICENSED PROFESSIONAL ENGINEER	FO-100.00 4 OF 24

2013.465

DEPT OF BLDGS 520991739 Job Number
ES 1804259164 Scan Code

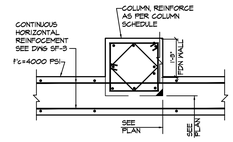


TYPICAL SLAB ON GRADE DETAILS



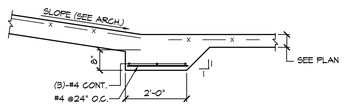
TYPICAL MECHANICAL EQUIPMENT PAD DETAIL

SCALE: 1/2"=1'-0"



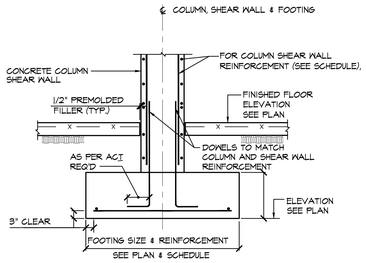
TYPICAL PILASTER DETAIL

SCALE: 1/2"=1'-0"

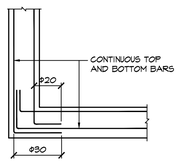


TYP. SECTION THROUGH TRENCH DRAIN

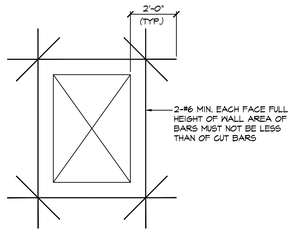
SCALE: 1/2"=1'-0"



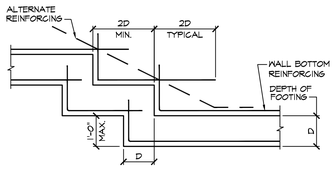
TYPICAL INTERIOR FOOTING DETAIL FOR COLUMN AND SHEAR WALL



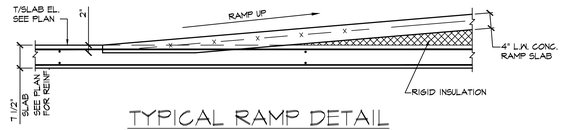
TYPICAL CONCRETE WALL CORNER REINFORCING DETAIL



TYPICAL OPENING IN WALL



TYPICAL STEP FOOTING DETAIL



TYPICAL RAMP DETAIL

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Date: 03/03/2014
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OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL:	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11226 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FOUNDATION DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARATOVSKY ENGINEER	FO-101.00 5 OF 24

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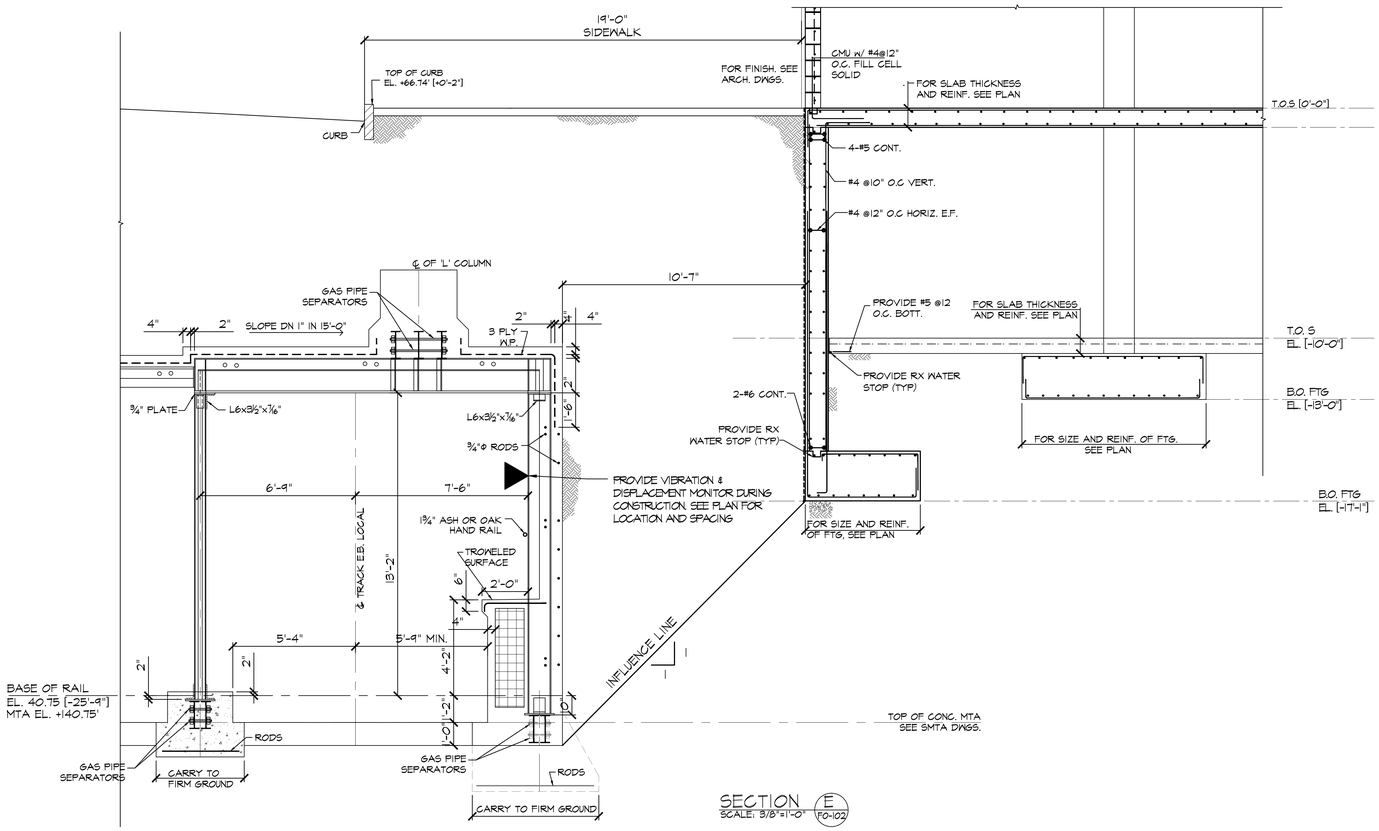
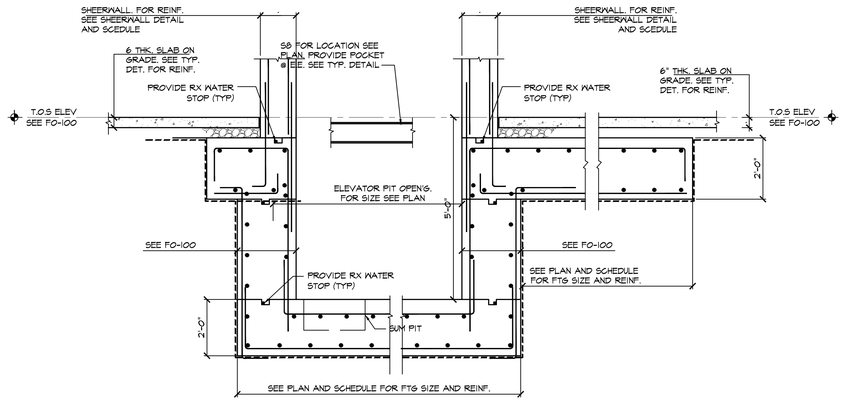
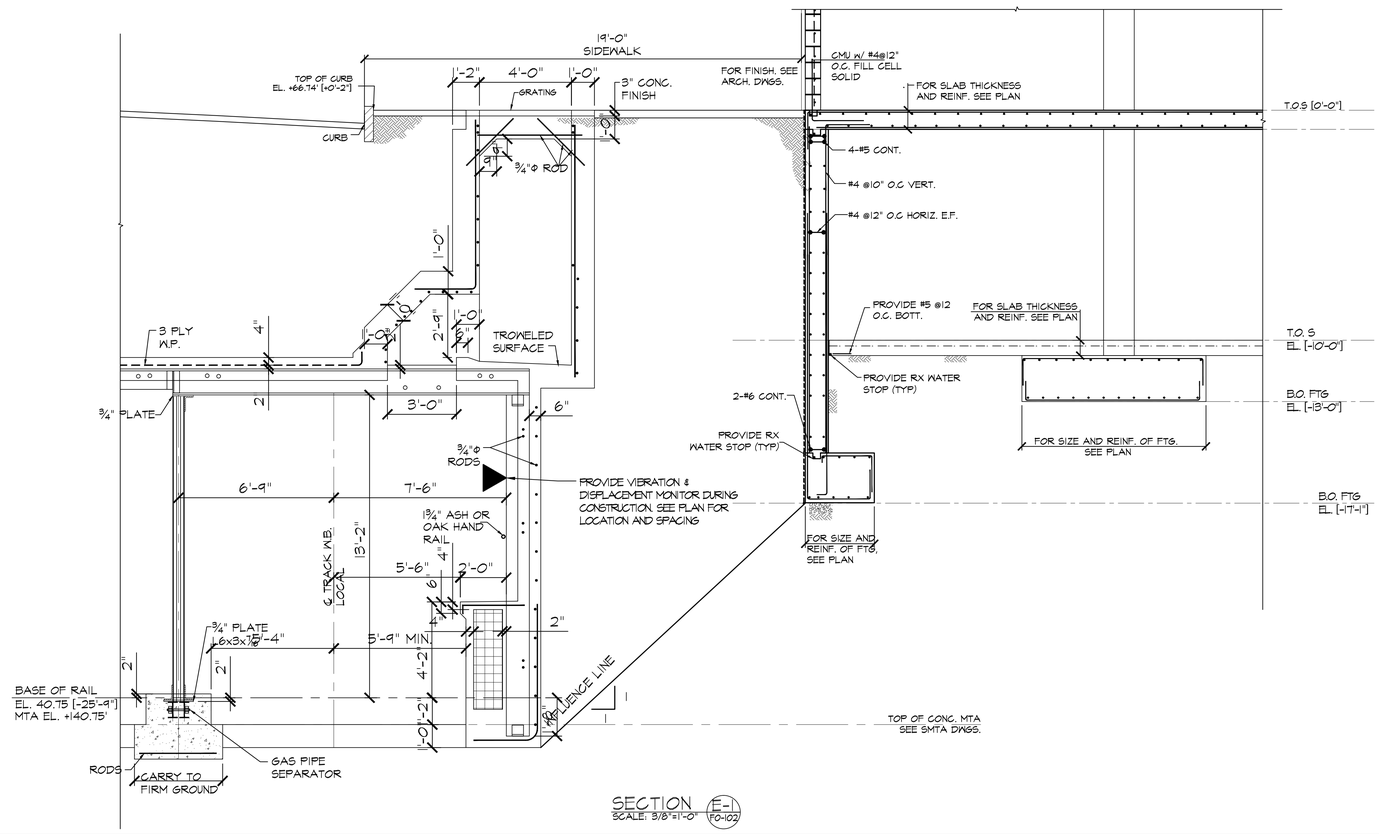


SECTION E
SCALE: 3/8"=1'-0" (FO-102)

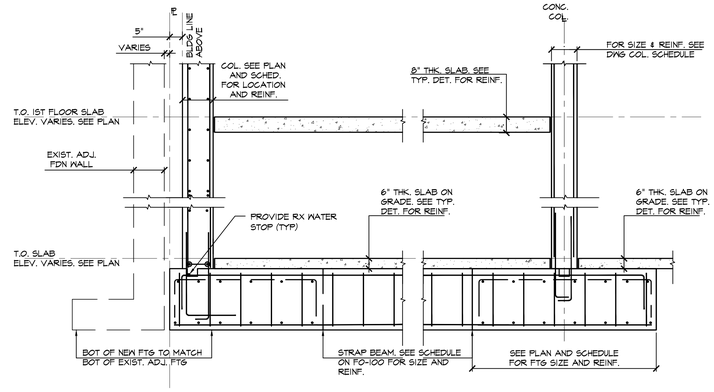


SECTION F
SCALE: 1/2"=1'-0" (FO-102)

NOTE:
1. FOR ELEVATOR BUMPER, COORDINATE WITH MECH AND ELEV. MANUFACTURER
2. FOR FOOTING SIZES AND LOCATION, SEE FO-100



SECTION E-1
SCALE: 3/8"=1'-0" (FO-102)



SECTION G
SCALE: 1/2"=1'-0" (FO-102)

Clara Gomez
NYC Buildings
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2228 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 29 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FOUNDATION SECTIONS & DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARAFIAN LICENSED PROFESSIONAL ENGINEER	FO-102.00 6 OF 24

2013.465

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DEPT OF BLDGS 520991739 Job Number
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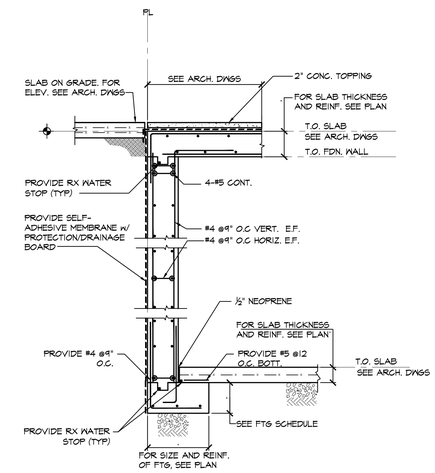
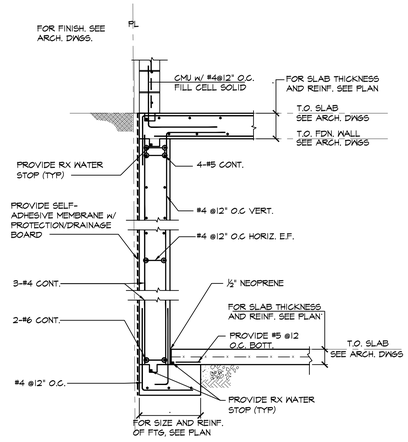
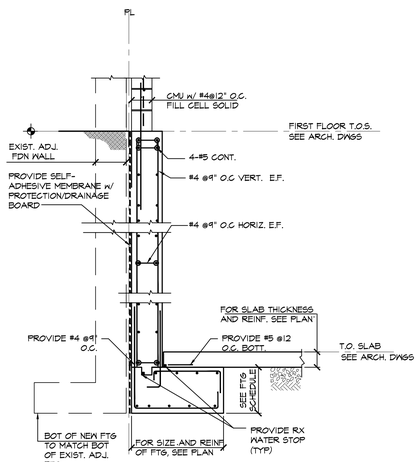


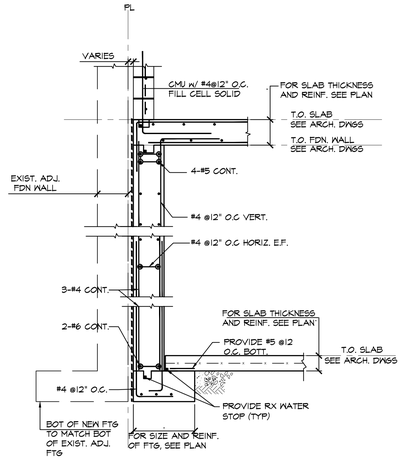
SECTION A
SCALE: 1/2"=1'-0" FO-103



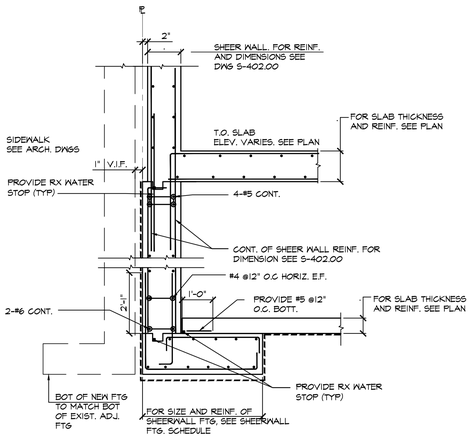
SECTION B
SCALE: 1/2"=1'-0" FO-103



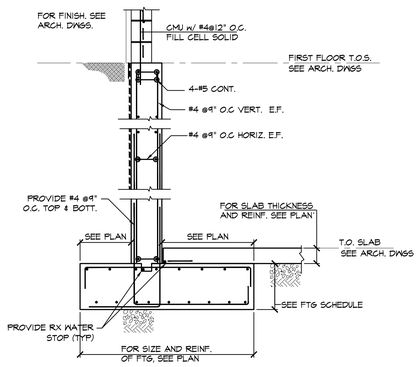
SECTION C
SCALE: 1/2"=1'-0" FO-103



SECTION D
SCALE: 1/2"=1'-0" FO-101



SECTION E
SCALE: 1/2"=1'-0" FO-103



SECTION H
SCALE: 1/2"=1'-0" FO-103

Clara Gomez
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AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1990 Lot: 11 + 12 + 13 + 14	FOUNDATION DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARAFANOV LICENSED PROFESSIONAL ENGINEER	FO-103.00 5 OF 24

2013.465

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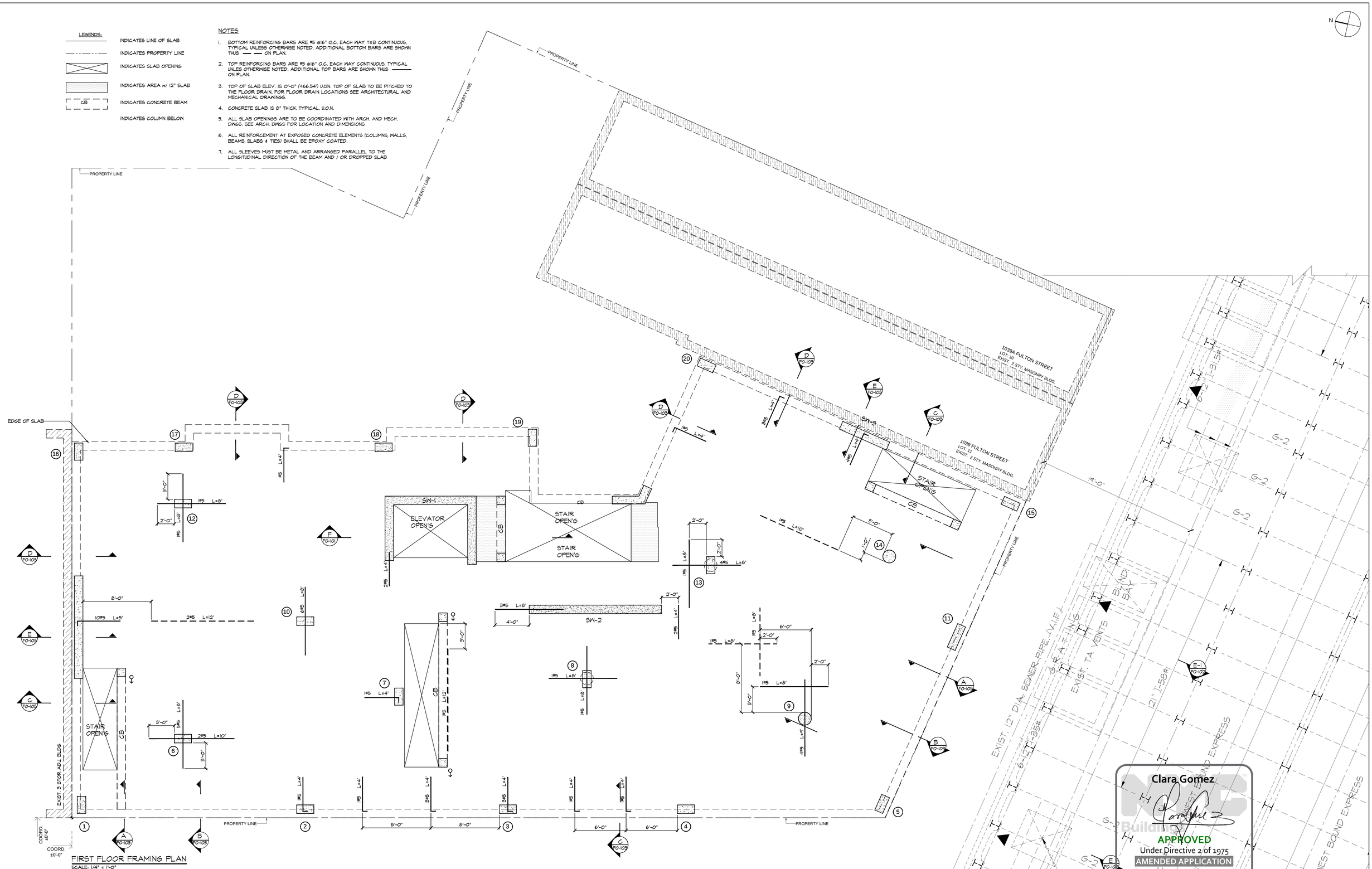
DEPT OF BLDGS 520991739 Job Number
E302120361 Scan Code

LEGENDS:

- INDICATES LINE OF SLAB
- INDICATES PROPERTY LINE
- INDICATES SLAB OPENING
- INDICATES AREA w/ 12" SLAB
- CB — INDICATES CONCRETE BEAM
- INDICATES COLUMN BELOW

NOTES:

1. BOTTOM REINFORCING BARS ARE #5 @16" O.C. EACH WAY T&B CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL BOTTOM BARS ARE SHOWN THUS — — ON PLAN.
2. TOP REINFORCING BARS ARE #5 @16" O.C. EACH WAY CONTINUOUS, TYPICAL UNLES OTHERWISE NOTED. ADDITIONAL TOP BARS ARE SHOWN THUS ——— ON PLAN.
3. TOP OF SLAB ELEV. IS 0"-0" (+66.54') U.O.N. TOP OF SLAB TO BE PITCHED TO THE FLOOR DRAIN. FOR FLOOR DRAIN LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. CONCRETE SLAB IS 8" THICK TYPICAL, U.O.N.
5. ALL SLAB OPENINGS ARE TO BE COORDINATED WITH ARCH. AND MECH. DWGS. SEE ARCH. DWGS FOR LOCATION AND DIMENSIONS
6. ALL REINFORCEMENT AT EXPOSED CONCRETE ELEMENTS (COLUMNS, WALLS, BEAMS, SLABS & TIES) SHALL BE EPOXY COATED.
7. ALL SLEEVES MUST BE METAL AND ARRANGED PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BEAM AND / OR DROPPED SLAB



FIRST FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL:	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New Yuok NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	1ST FLOOR FRAMING PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARATOVSKY ASSOCIATE ENGINEER	S-100.00 7 OF 24

2013-465

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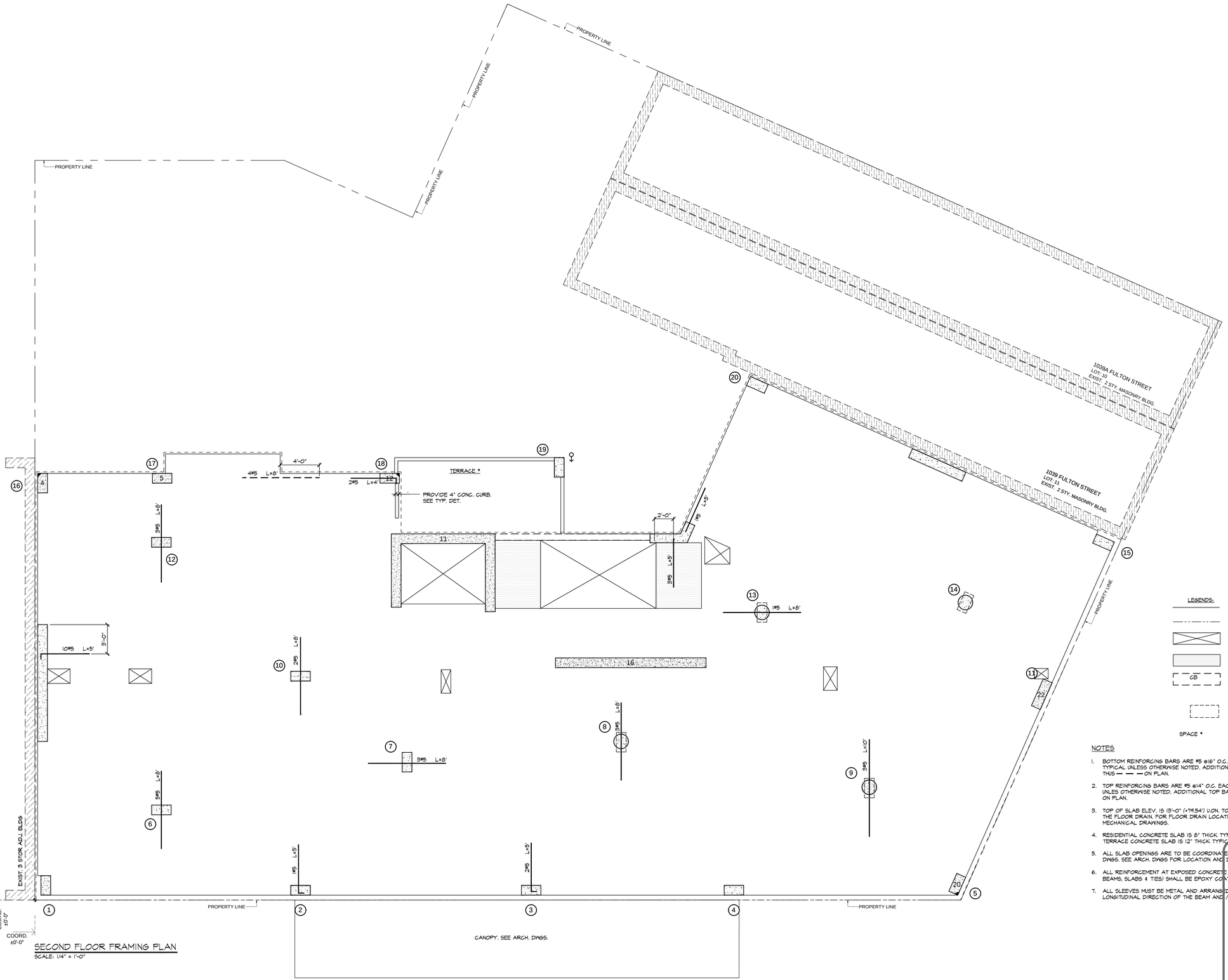
DEPT OF BLDGS 520991739 Job Number
ES379143944 Scan Code



SECOND FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

LEGENDS:

	INDICATES LINE OF SLAB
	INDICATES PROPERTY LINE
	INDICATES SLAB OPENING
	INDICATES AREA w/ 12" SLAB
CB	INDICATES CONCRETE BEAM
	INDICATES COLUMN BELOW
	INDICATES LINE OF COLUMN ABOVE
SPACE *	INDICATES SPACE/AREA w/ EPOXY COATED REBARS

NOTES

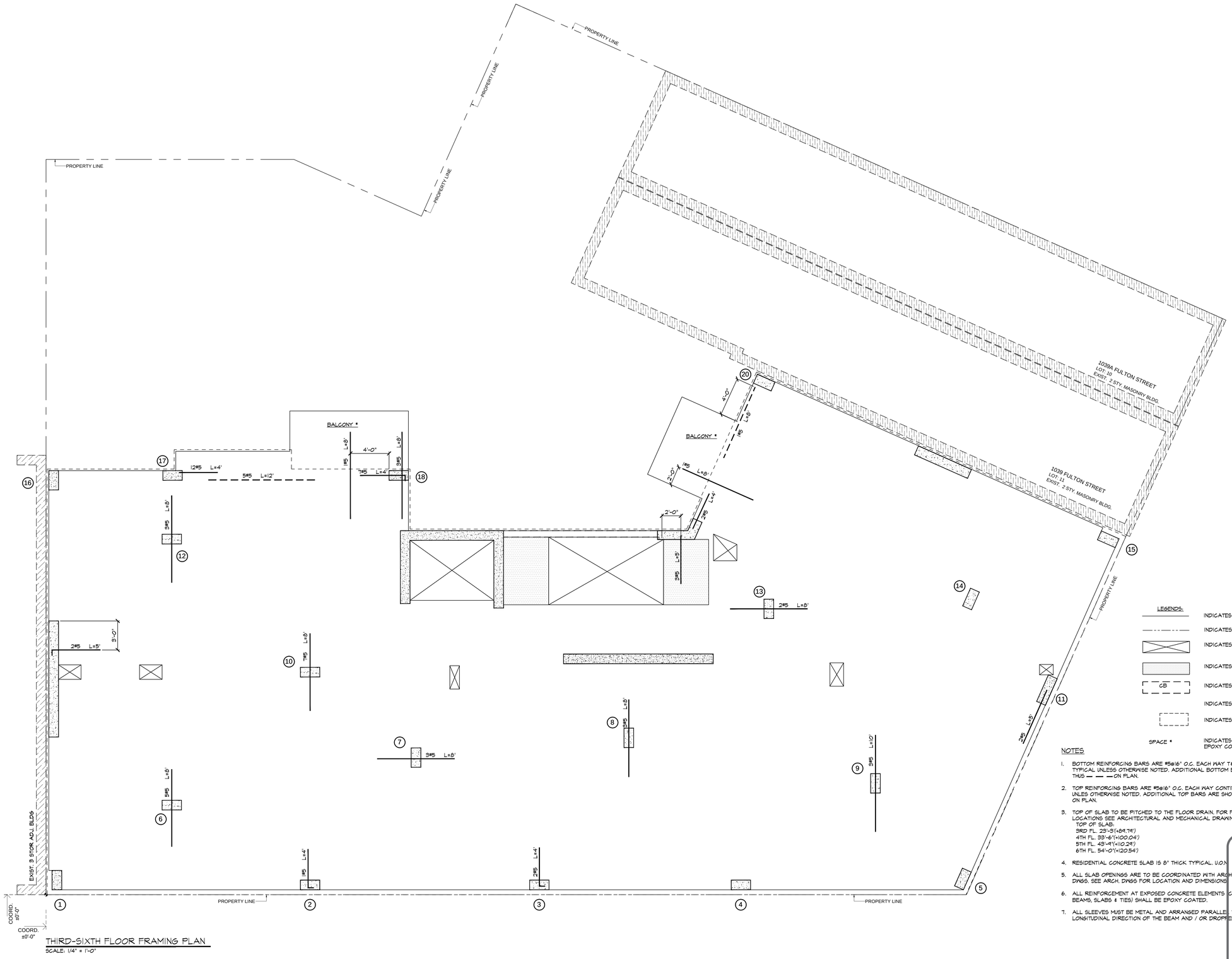
1. BOTTOM REINFORCING BARS ARE #5 @16" O.C. EACH WAY CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL BOTTOM BARS ARE SHOWN THUS — — — ON PLAN.
2. TOP REINFORCING BARS ARE #5 @14" O.C. EACH WAY CONTINUOUS, TYPICAL UNLES OTHERWISE NOTED. ADDITIONAL TOP BARS ARE SHOWN THUS ——— ON PLAN.
3. TOP OF SLAB ELEV. IS 19'-0" (+79.54') U.O.N. TOP OF SLAB TO BE PITCHED TO THE FLOOR DRAIN. FOR FLOOR DRAIN LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. RESIDENTIAL CONCRETE SLAB IS 8" THICK TYPICAL, U.O.N. TERRACE CONCRETE SLAB IS 12" THICK TYPICAL, U.O.N.
5. ALL SLAB OPENINGS ARE TO BE COORDINATED WITH ARCH. AND MECH. DWGS. SEE ARCH. DWGS FOR LOCATION AND DIMENSIONS
6. ALL REINFORCEMENT AT EXPOSED CONCRETE ELEMENTS (COLUMNS, WALLS, BEAMS, SLABS & TIES) SHALL BE EPOXY COATED.
7. ALL SLEEVES MUST BE METAL AND ARRANGED PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BEAM AND / OR DROPPED SLAB.

Clara Gomez
Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL:	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-418-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-3235 F: (718) 332-3274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	2ND FLOOR FRAMING PLAN SCALE: AS SHOWN	1. ISSUED 04-29-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY BARATOVSKY LICENSED PROFESSIONAL ENGINEER 079-079-1	S-101.00 8 OF 24

2012 ILMC

DEPT OF BLDGS 520991739 Job Number
ES047506631 Scan Code



THIRD-SIXTH FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

LEGENDS:

	INDICATES LINE OF SLAB
	INDICATES PROPERTY LINE
	INDICATES SLAB OPENING
	INDICATES AREA w/ 12" SLAB
CB	INDICATES CONCRETE BEAM
	INDICATES COLUMN BELOW
	INDICATES LINE OF COLUMN ABOVE
SPACE *	INDICATES SPACE/AREA w/ EPOXY COATED REBARS.

NOTES

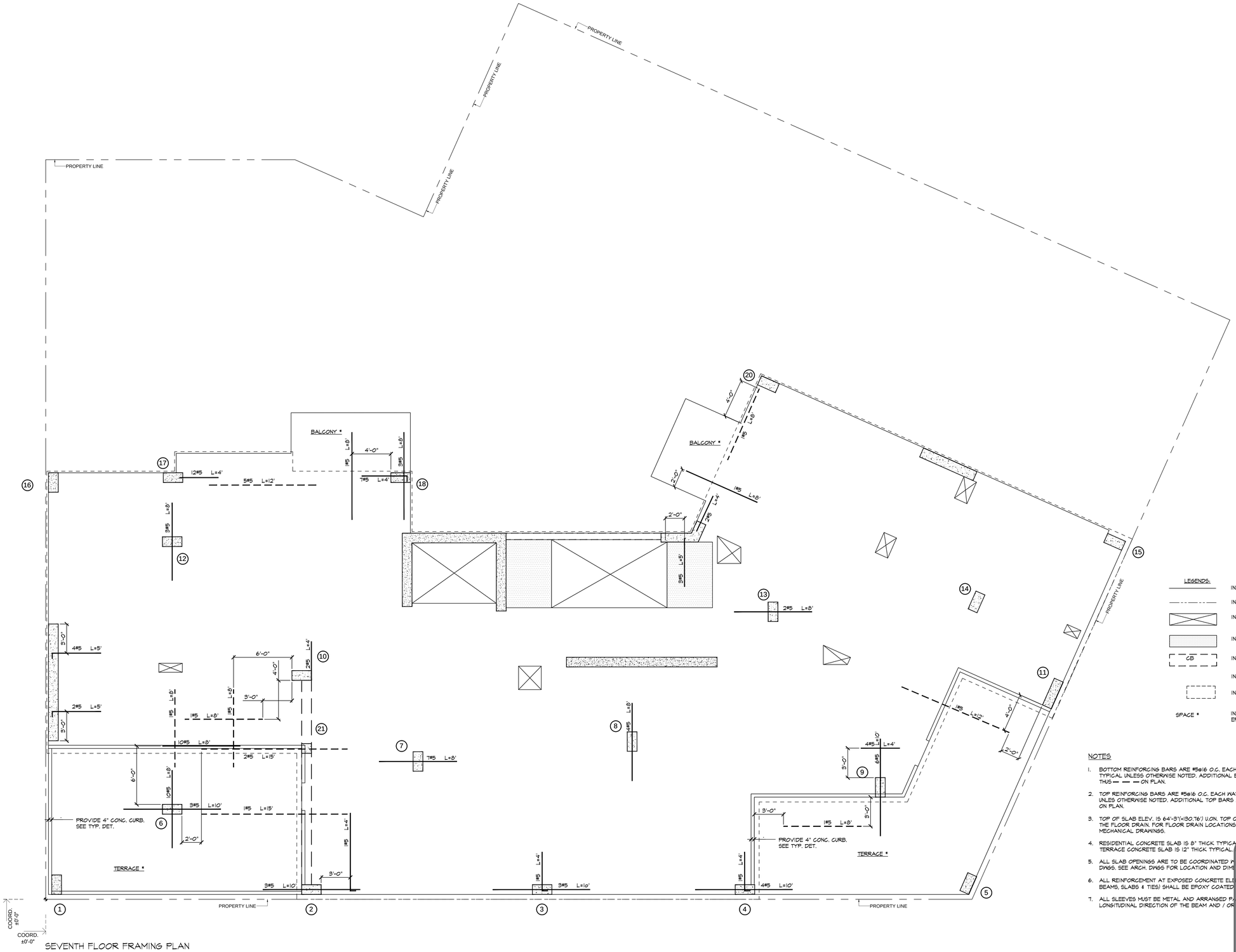
1. BOTTOM REINFORCING BARS ARE #5@16" O.C. EACH WAY T&B CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL BOTTOM BARS ARE SHOWN THUS — — — ON PLAN.
2. TOP REINFORCING BARS ARE #5@16" O.C. EACH WAY CONTINUOUS, TYPICAL UNLES OTHERWISE NOTED. ADDITIONAL TOP BARS ARE SHOWN THUS ——— ON PLAN.
3. TOP OF SLAB TO BE PITCHED TO THE FLOOR DRAIN. FOR FLOOR DRAIN LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
   TOP OF SLAB:
   3RD FL. 23'-3"(+84.79')
   4TH FL. 33'-6"(+100.04')
   5TH FL. 43'-11"(+110.29')
   6TH FL. 54'-0"(+120.54')
4. RESIDENTIAL CONCRETE SLAB IS 8" THICK TYPICAL. U.O.N.
5. ALL SLAB OPENINGS ARE TO BE COORDINATED WITH ARCH. AND MECH. DWGS. SEE ARCH. DWGS FOR LOCATION AND DIMENSIONS.
6. ALL REINFORCEMENT AT EXPOSED CONCRETE ELEMENTS (COLUMNS, WALLS, BEAMS, SLABS & TIES) SHALL BE EPOXY COATED.
7. ALL SLEEVES MUST BE METAL AND ARRANGED PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BEAM AND / OR DROPPED SLAB

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	3RD TO 6TH FLOOR FRAMING PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARATOVSKIY ASSOCIATES	S-102.00 9 OF 24

2011-08

DEPT OF BLDGS 520991739 Job Number
ES137404087 Scan Code



SEVENTH FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

LEGENDS:

	INDICATES LINE OF SLAB
	INDICATES PROPERTY LINE
	INDICATES SLAB OPENING
	INDICATES AREA w/ 12" SLAB
CB	INDICATES CONCRETE BEAM
	INDICATES COLUMN BELOW
	INDICATES LINE OF COLUMN ABOVE
SPACE *	INDICATES SPACE/AREA w/ EPOXY COATED REBARS

NOTES

1. BOTTOM REINFORCING BARS ARE #5@16 O.C. EACH WAY T&B CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL BOTTOM BARS ARE SHOWN THUS — — — ON PLAN.
2. TOP REINFORCING BARS ARE #5@16 O.C. EACH WAY CONTINUOUS, TYPICAL UNLES OTHERWISE NOTED. ADDITIONAL TOP BARS ARE SHOWN THUS ——— ON PLAN.
3. TOP OF SLAB ELEV. IS 64'-3"(+130.76') U.O.N. TOP OF SLAB TO BE PITCHED TO THE FLOOR DRAIN. FOR FLOOR DRAIN LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. RESIDENTIAL CONCRETE SLAB IS 8" THICK TYPICAL U.O.N. TERRACE CONCRETE SLAB IS 12" THICK TYPICAL U.O.N.
5. ALL SLAB OPENINGS ARE TO BE COORDINATED WITH ARCH. AND MECH. DWGS. SEE ARCH. DWGS FOR LOCATION AND DIMENSIONS
6. ALL REINFORCEMENT AT EXPOSED CONCRETE ELEMENTS (COLUMNS, WALLS, BEAMS, SLABS & TIES) SHALL BE EPOXY COATED
7. ALL SLEEVES MUST BE METAL AND ARRANGED PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BEAM AND / OR DROPPED SLAB

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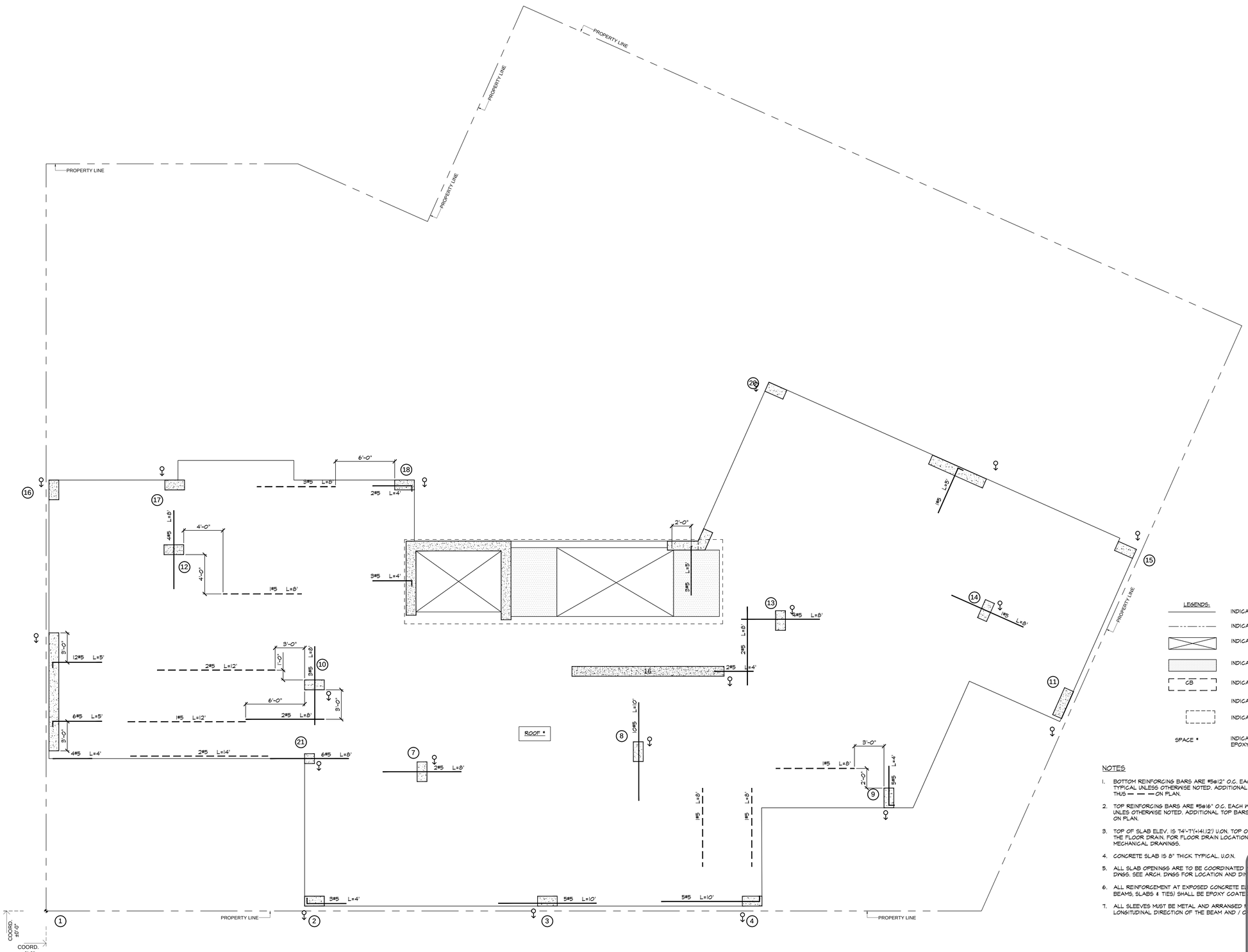
OWNER / DEVELOPER:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL:	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-418-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235. P: (718) 332-1266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 8th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	7TH FLOOR FRAMING PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK · COUNTY OF SARATOGA · GENNADY SARATOVSKY · LICENSED PROFESSIONAL ENGINEER	S-103.00 10 OF 24

2013-465

DEPT OF BLDGS 520091739 Job Number
ES1057265380 Scan Code



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

LEGENDS:

	INDICATES LINE OF SLAB
	INDICATES PROPERTY LINE
	INDICATES SLAB OPENING
	INDICATES AREA w/ 12" SLAB
CB	INDICATES CONCRETE BEAM
	INDICATES COLUMN BELOW
	INDICATES LINE OF COLUMN ABOVE
SPACE *	INDICATES SPACE/AREA w/ EPOXY COATED REBARS

NOTES

1. BOTTOM REINFORCING BARS ARE #5@12" O.C. EACH WAY CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL BOTTOM BARS ARE SHOWN THUS — — — ON PLAN.
2. TOP REINFORCING BARS ARE #5@16" O.C. EACH WAY CONTINUOUS, TYPICAL UNLES OTHERWISE NOTED. ADDITIONAL TOP BARS ARE SHOWN THUS ——— ON PLAN.
3. TOP OF SLAB ELEV. IS 74'-7"(+141.12') U.O.N. TOP OF SLAB TO BE PITCHED TO THE FLOOR DRAIN. FOR FLOOR DRAIN LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. CONCRETE SLAB IS 8" THICK TYPICAL, U.O.N.
5. ALL SLAB OPENINGS ARE TO BE COORDINATED WITH ARCH. AND MECH. DWGS. SEE ARCH. DWGS FOR LOCATION AND DIMENSIONS
6. ALL REINFORCEMENT AT EXPOSED CONCRETE ELEMENTS (COLUMNS, WALLS, BEAMS, SLABS & TIES) SHALL BE EPOXY COATED.
7. ALL SLEEVES MUST BE METAL AND ARRANGED PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BEAM AND / OR DROPPED SLAB.

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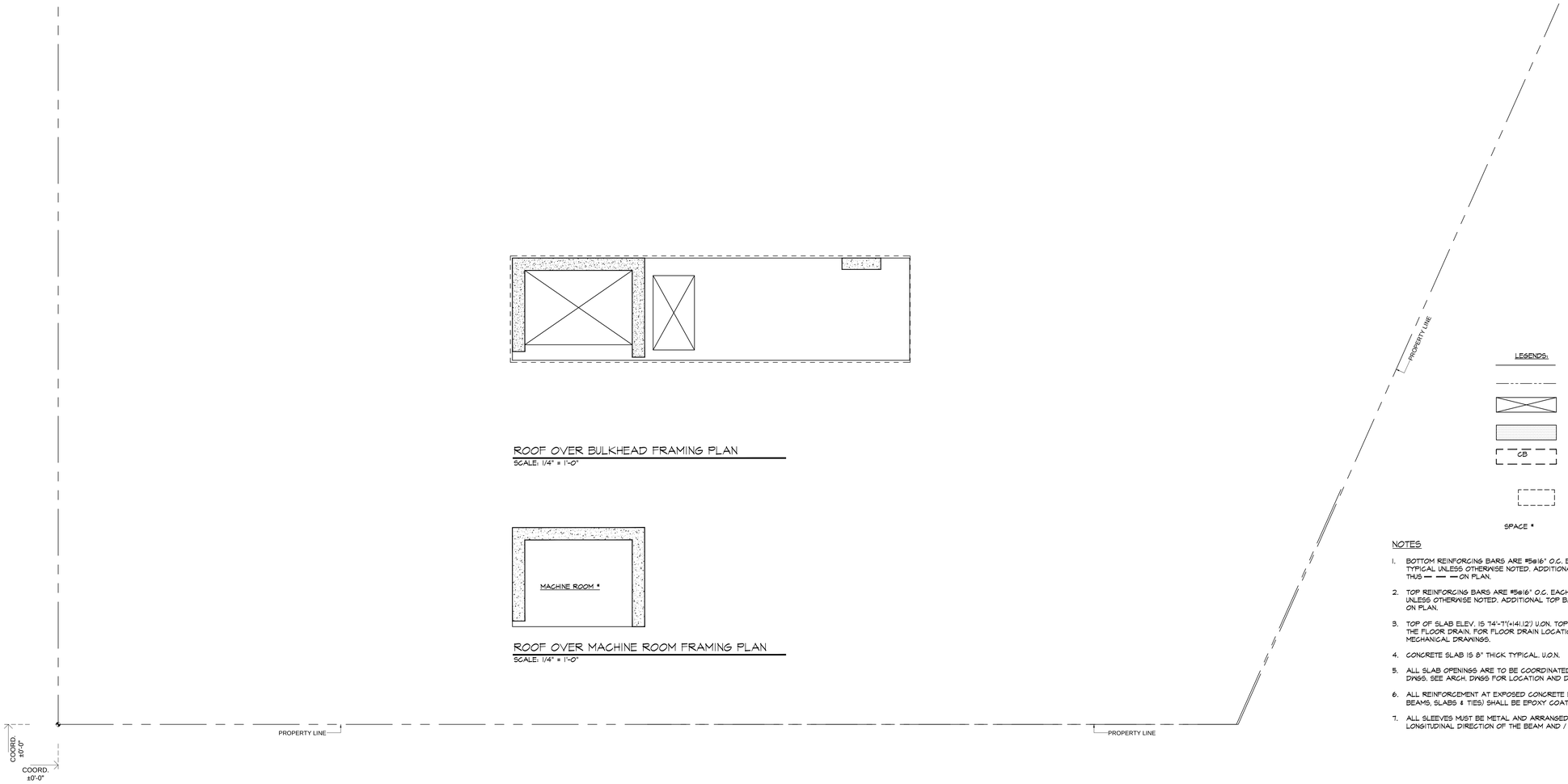
OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	ROOF FRAMING PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 DOB FILING-2-28-2014 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARAFANOV LICENSED PROFESSIONAL ENGINEER	S-104.00 11 OF 24

0514 ver.0

DEPT OF BLDGS 500991739 Job Number
ES145404511 Scan Code

ROOF OVER BULKHEAD FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF OVER MACHINE ROOM FRAMING PLAN
SCALE: 1/4" = 1'-0"



LEGENDS:

- INDICATES LINE OF SLAB
- INDICATES PROPERTY LINE
- INDICATES SLAB OPENING
- INDICATES AREA w/ 12" SLAB
- CB — INDICATES CONCRETE BEAM
- INDICATES COLUMN BELOW
- INDICATES LINE OF COLUMN ABOVE
- SPACE * — INDICATES SPACE/AREA w/ EPOXY COATED REBARS

NOTES

1. BOTTOM REINFORCING BARS ARE #5@16" O.C. EACH WAY CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL BOTTOM BARS ARE SHOWN THUS — — — ON PLAN.
2. TOP REINFORCING BARS ARE #5@16" O.C. EACH WAY CONTINUOUS, TYPICAL UNLESS OTHERWISE NOTED. ADDITIONAL TOP BARS ARE SHOWN THUS ON PLAN.
3. TOP OF SLAB ELEV. IS 74'-7"(+14.1.12') U.O.N. TOP OF SLAB TO BE PITCHED TO THE FLOOR DRAIN. FOR FLOOR DRAIN LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. CONCRETE SLAB IS 8" THICK TYPICAL. U.O.N.
5. ALL SLAB OPENINGS ARE TO BE COORDINATED WITH ARCH. AND MECH. DWGS. SEE ARCH. DWGS FOR LOCATION AND DIMENSIONS
6. ALL REINFORCEMENT AT EXPOSED CONCRETE ELEMENTS (COLUMNS, WALLS, BEAMS, SLABS & TIES) SHALL BE EPOXY COATED.
7. ALL SLEEVES MUST BE METAL AND ARRANGED PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BEAM AND / OR DROPPED SLAB

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STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BULKHEAD FRAMING PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 — DOB FILING-2-28-2014 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARAFANOV ENGINEER	S-105.00 12 OF 24

2012 edition

DEPT OF BLDGS 520991739 Job Number
ES7587394468 Scan Code

COLUMN SCHEDULE (KIPS)

COLUMN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
ROOF		24	50	55			67	70	50	65	29	71	74	78	20	15	23	21		24	33
T/ROOF EL.		24	50	55			67	70	50	65	29	71	74	78	20	15	23	21		24	33
		12X24	12X24	12X24			12X24	12X24	12X24	12X24	12X36	12X24	12X24	12X24	12X24	12X24	12X24	12X24		12X24	12X24
		8-#6	8-#6	8-#6			8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6		8-#6	8-#6
7th FLOOR	21	68	51	60	28	84	66	54	48	42	53	42	54	48	26	21	35	47		37	0
T/SLAB EL.	21	42	101	45	28	84	133	124	148	157	76	163	128	176	46	36	58	68		66	33
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X36	12X24	12X24	12X24	12X24	12X24	12X24	12X24		12X24	
	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6		8-#6	
6th FLOOR	28	28	28	28	28	28	28	51	67	56	46	56	51	67	28	21	35	47		37	
T/SLAB EL.	49	120	124	123	56	117	161	175	215	213	122	219	174	243	74	57	93	115		103	
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X36	12X24	12X24	12X24	12X24	12X24	12X24	12X24		12X24	
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5th FLOOR	28	28	28	28	28	28	28	51	67	56	46	56	51	67	28	21	35	47		37	
T/SLAB EL.	77	148	157	151	84	145	184	226	282	269	168	275	230	310	102	78	128	162		140	
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X36	12X24	12X24	12X24	12X24	12X24	12X24	12X24		12X24	
	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6		8-#6	
4th FLOOR	28	28	28	28	28	28	28	51	67	56	46	56	51	67	28	21	35	47		37	
T/SLAB EL.	105	176	185	179	112	173	217	227	344	325	214	351	281	377	130	99	163	209		177	
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X36	12X24	12X24	12X24	12X24	12X24	12X24	12X24		12X24	
	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6		8-#6	
3rd FLOOR	28	28	28	28	28	28	28	51	67	56	46	56	51	67	28	21	35	47		37	
T/SLAB EL.	133	204	213	207	140	201	245	328	146	381	260	387	332	444	158	120	193	256		214	
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X24	12X36	12X24	12X24	12X24	12X24	12X24	12X24	12X24		12X24	
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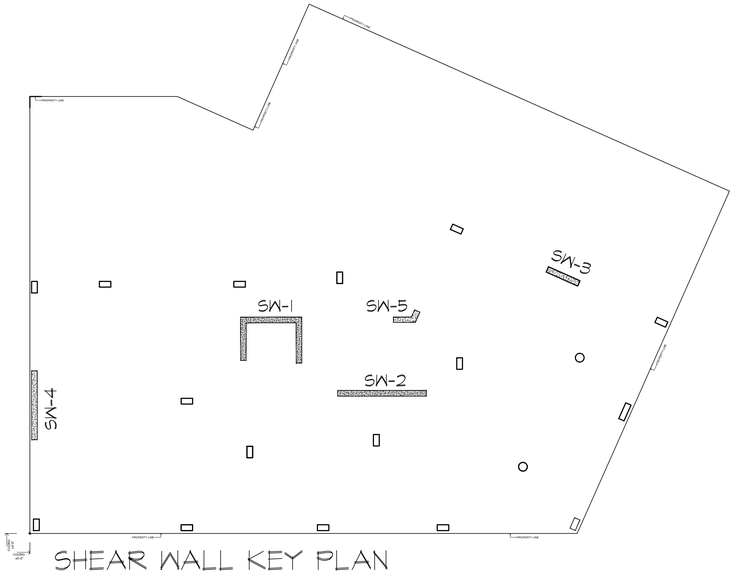
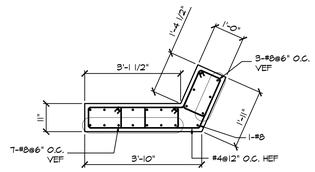
2nd FLOOR	28	28	28	28	28	28	28	51	67	56	46	28	51	67	28	21	31	33	14	32	
T/SLAB EL.	161	232	241	235	168	229	273	374	488	437	306	443	383	511	187	141	229	284	14	246	
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	18" DIA.	18" DIA.	12X24	12X36	12X24	18" DIA.	18" DIA.	12X24	12X24	12X24	12X24	12X24	12X24	
	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	
1st FLOOR	7	7	7	7	7	7	7	60	71	81	21	7	60	71	7	7	7	9	7	7	
T/SLAB EL.	168	234	248	242	175	236	280	484	554	518	327	524	443	582	144	148	236	248	21	253	
	12X24	12X24	12X24	12X24	12X24	12X24	12X24	18" DIA.	18" DIA.	12X24	12X36	12X24	12X24	18" DIA.	12X24	12X24	12X24	12X24	12X24	12X24	
	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	
CELLAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD	168	234	248	242	175	236	280	484	554	518	327	524	443	582	144	148	236	248	21	253	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

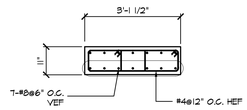
*NOTE : COL 19 - SEE COLUMN DETAIL BELOW



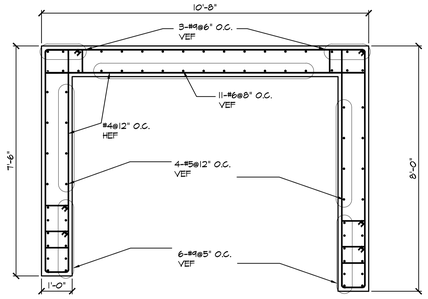
SHEAR WALL KEY PLAN
SCALE: NTS



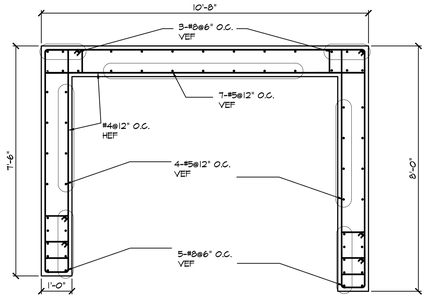
SHEAR WALL 5 (CELLAR TO ROOF)
SCALE: ½" = 1'-0"



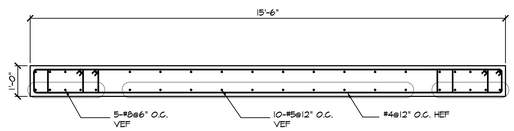
SHEAR WALL 5 (ROOF TO BULKHEAD)
SCALE: ½" = 1'-0"



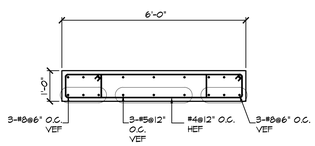
SHEAR WALL 1 (CELLAR TO 2ND FLOOR)
SCALE: ½" = 1'-0"



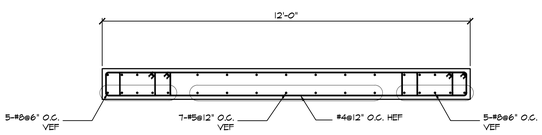
SHEAR WALL 1 (2ND FLOOR TO ROOF)
SCALE: ½" = 1'-0"



SHEAR WALL 2
SCALE: ½" = 1'-0"



SHEAR WALL 3
SCALE: ½" = 1'-0"



SHEAR WALL 4
SCALE: ½" = 1'-0"

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
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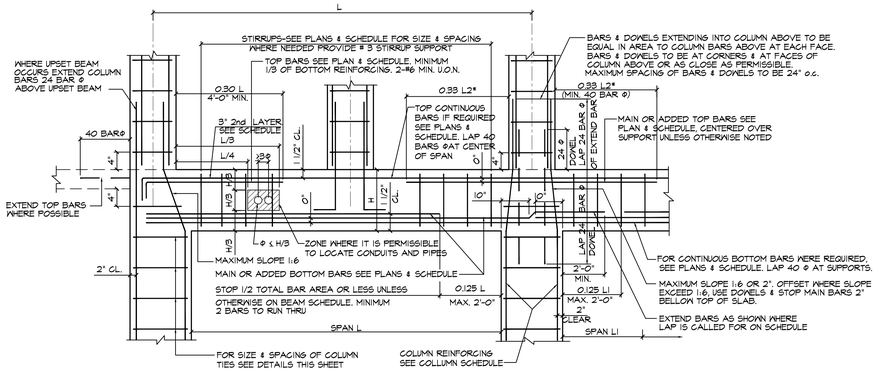
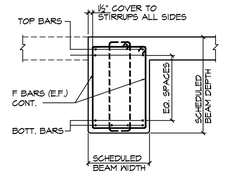
OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	COLUMN SCHED.& SHEAR WALLS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARAFANOV LICENSED PROFESSIONAL ENGINEER	S-200.00 14 OF 24

2013.465



TYPICAL BEAM AND COLUMN DETAILS

NOTES:
* = AT LEAST 1/2 OF TOTAL TOP REINFORCING SHOWN ON PLAN & IN BEAM SCHEDULE TO BE EXTENDED 0.30 L2 OR MORE.
L2 = LONGER OF ADJACENT SPANS L OR L1.

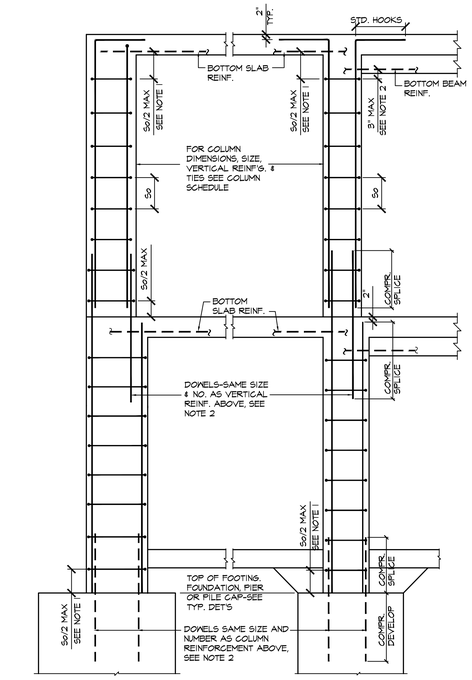


TYPICAL BEAM SECTION

SCALE: 1/2"=1'-0"

NOTES:

1. WHERE BARS ARE PLACED IN TWO LAYERS MINIMUM CLEAR DISTANCE BETWEEN LAYERS SHALL BE ONE INCH. UPPER LAYER BARS SHALL BE DIRECTLY ABOVE BARS.
2. BEAM REINFORCEMENT SHALL BE LOCATED LATERALLY AS REQUIRED TO CLEAR COLUMN VERTICAL REINFORCEMENT.
3. WHERE BEAMS MEET AND CROSS EACH OTHER AT A REQUIRED THE SHALLOWER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
4. IN THE EVENT ONE CROSSING BEAM IS A CANTILEVER, THE CANTILEVER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
5. WHERE F BARS (FACE BARS) ARE INDICATED IN THE BEAM SCHEDULE, THEY SHALL BE UNIFORMLY SPACED ON BOTH BEAM FACED AND SHALL BE CONTINUOUS WITH STAGGERED 30 ø LAP SPLICES.
6. SEE SCHEDULE OF SHEAR REINFORCEMENT FOR DEEP BEAMS (ONLY/4) FOR MINIMUM STIRRUP AND FACE BAR REQUIREMENTS.
7. THE FIRST STIRRUP AT EACH END SHALL BE PLACED AT ½ THE FIRST SCHEDULED SPACE FROM THE FACE OF SUPPORTING MEMBER SUBSEQUENT STIRRUPS SHALL BE SPACED AS INDICATED IN THE BEAM SCHEDULE. THE SCHEDULE GIVES NUMBER OF SPACES, NOT NUMBER OF STIRRUPS.
8. WHERE MORE THAN ONE STIRRUP IS INDICATED IN A SET, PLACE EACH SET AT THE SCHEDULED SPACING.
9. SCHEDULED STIRRUP SPACING IS THE SAME AT EACH END UNLESS OTHERWISE NOTED.
10. PROVIDE #3 CLOSED TIE STIRRUPS @18" O.C. WHERE SCHEDULED STIRRUPS DO NOT EXTEND TO END OF THE BARS.



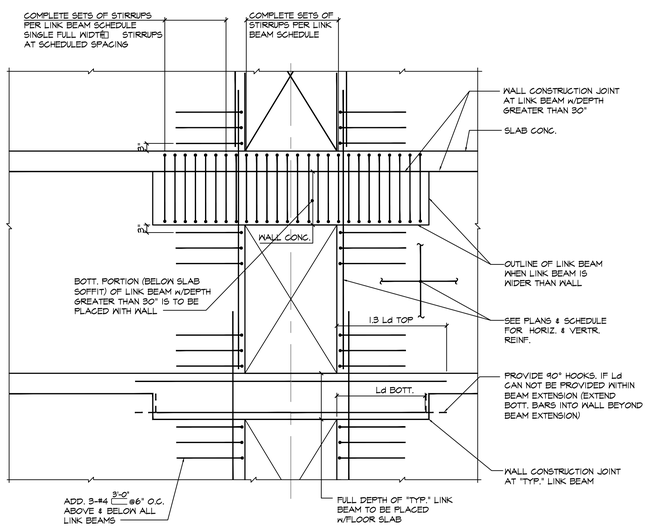
EXTERIOR COLUMN OR BUTTRESS

INTERIOR COLUMN

TYPICAL COLUMN DETAILS

NOTES:

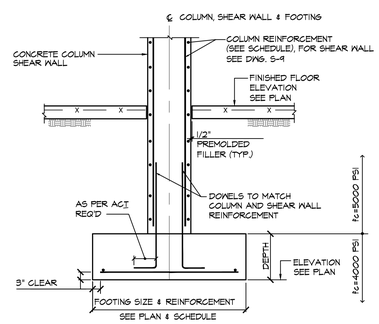
1. LOCATE TOP SET OF TIES 50/2 MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL.
2. WHERE BEAMS FRAME FROM FOUR DIRECTION INTO COLUMN, TIES MAY TERMINATE NOR MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOW WEST OD SUCH BEAM.
3. IF OFFSET OF DOWELS MORE THAN 6", SPLICE SHALL BE TWICE COMPRESSION DEVELOPMENT LENGTH OF THE SMALLER BAR.
4. WERE SLAB IS POURED OVER FOUNDATION PRIOR TO COLUMN , VERTICAL REINFORCEMENT AND DOWEL LAP TO START AT TOP OF SLAB.



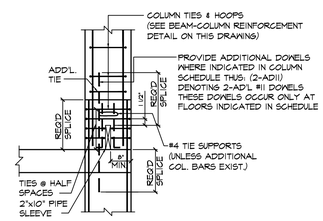
TYPICAL REINFORCEMENT AT LINK BEAMS AN AROUND SHEAR WALL OPENINGS

SEAR WALL NOTES:

1. ALL SEAR WALL REINFORCEMENT (HORIZONTAL AND VERTICAL) IS TO BE TENSION LAP SPLICED (1.3 Ld).
2. ALL NON-TYPICAL VERTICAL BARS UNSUPPORTED BY A LATERAL TIE SHALL BE SPACED NO MOIRE THAN 6' CLEAR ON BOTH SIDES FROM SUCH LATERALLY SUPPORTED BARS.
3. ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE SINGLE LEG CROSSTIES THROUGHOUT HEIGHT OF WALL.
4. FOR MINIMUM TYPICAL REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
5. WHERE HEAVIER REINFORCEMENT IS SHOWN ON SERIES ELEVATIONS OR DETAILS, THE HEAVIER REINFORCEMENT SHALL BE USED IN LIEU OF REINFORCEMENT SHOWN ON SEAR WALL PLANS, ALL REINFORCEMENT IS ADDITIONAL TO REINF. SHOWN ON PLAN AND TYPICAL REINF. SCHEDULE.
6. NO OPENING OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS MAY BE PLACED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
7. CONTRACTOR SHALL SUBMIT CONSOLIDATED SHOP DRAWINGS FOR ALL OPENINGS PROPOSED (SUCH AS STRUCTURAL, ARCHITECTURAL, MEP) TO THE ENGINEER OF RECORD. KEYS AND DOWELS MUST BE AS DEFINED BY THE E.O.R.
8. NO VERTICAL VERTICAL CONSTRUCTION JOINTS ARE PERMITTED IN SHEAR WALL WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OF RECORD. KEYS AND DOWELS MUST BE AS DEFINED BY THE E.O.R.
9. SEE PLAN AND ELEVATIONS FOR SHEAR WALL LOCATIONS, DIMENSIONS, REINFORCEMENT, OPENINGS, LINK BEAM LOCATIONS, ETC.
10. FOR LINK BEAM SIZES AND REINFORCEMENT SEE LINK BEAM SCHEDULE IN SERIES DRAWINGS.
11. SEE COLUMN SCHEDULES SERIES DRAWINGS FOR CONCRETE STRENGTH REQUIRED AT EACH DRAWINGS.
12. FOR MINIMUM REQUIRED MODULUS OF ELASTICITY OF CONCRETE, SEE SCHEDULE.



TYPICAL INTERIOR FOOTING DETAIL FOR COLUMN AND SHEAR WALL



DETAIL FOR PIPE SLEEVES THRU COLUMNS

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: steve@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	TYPICAL DETAILS - BEAM AND COLUMN SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 02-06-2014	STATE OF NEW YORK GENNADY GINZBURG LICENSED PROFESSIONAL ENGINEER	S-300.00 15 OF 24

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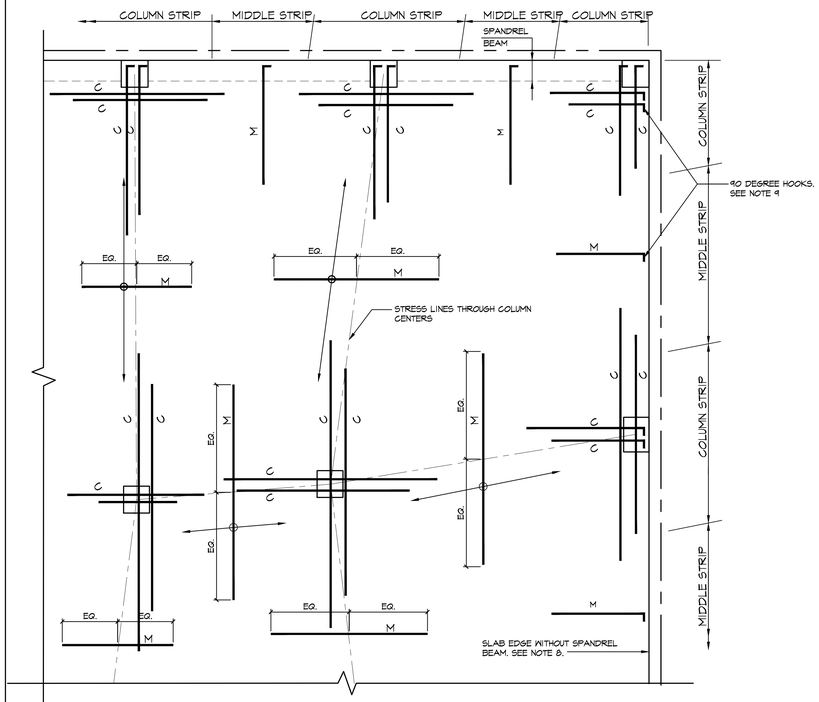
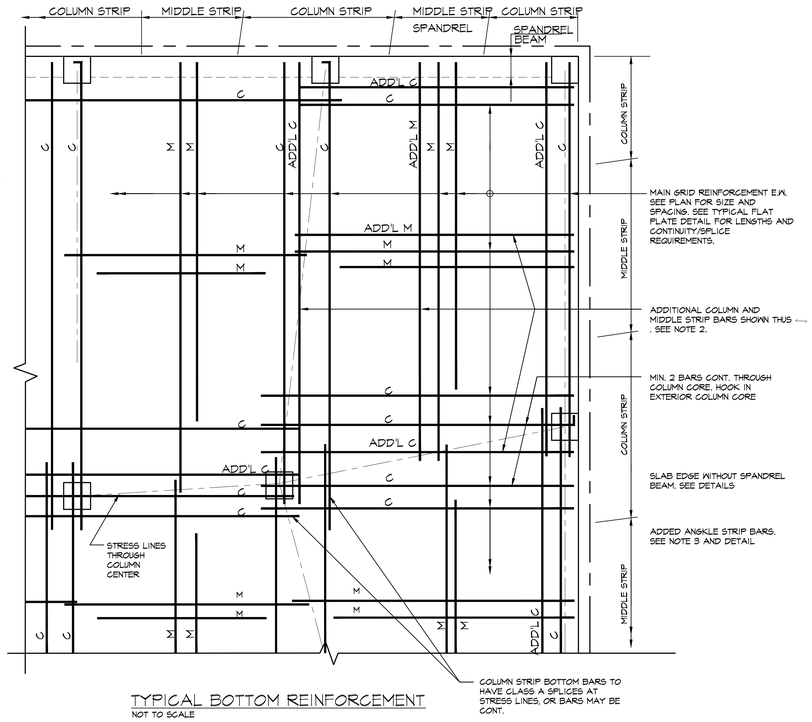


TYPICAL TOP REINFORCEMENT
NOT TO SCALE



TYPICAL BOTTOM REINFORCEMENT
NOT TO SCALE

NOTES FOR TOP REINFORCEMENT

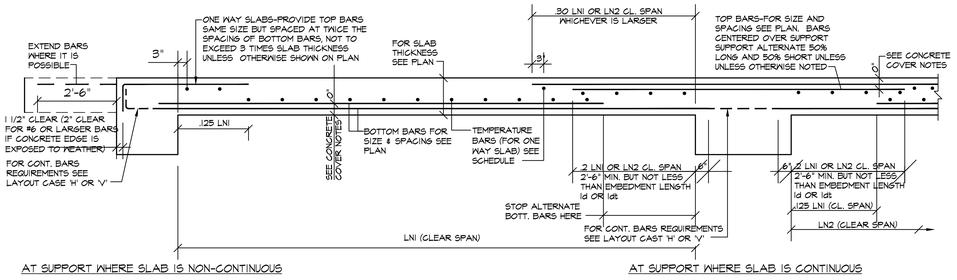
1. "C" DENOTES COLUMN STRIPS BARS (LONG AND SHORT BARS ARE ALTERED). "M" DENOTES MIDDLE STRIPS BARS.
2. SEE PLAN FOR SIZE, SPACING AND NUMBER OF REINFORCING BARS.
3. WHERE COLUMN STRIPS LENGTH ARE SHOWN ON FRAMING PLANS, THEY ARE FOR LONGER BARS, WHICH ARE TO BE ALTERED WITH SHORTER BARS. SEE TYPICAL FLAT PLATE DETAILS.
4. COLUMN STRIP BARS ARE TO BE CENTERED OVER COLUMNS U.O.N. ON PLANS.
5. MIDDLE STRIP BARS ARE TO BE CENTERED OVER STRESS LINES U.O.N. ON PLANS.
6. MIDDLE STRIP BARS ARE TO BE SPACED AS SHOWN ON PLANS. FIRST BAR NOT TO EXCEED MIDDLE STRIP BAR SPACING.
7. COLUMN STRIP BARS PARALLEL TO SPANDREL BEAMS ARE TO HAVE FIRST BAR LOCATED AT ONE-HALF SCHEDULED SPACING FROM INSIDE FACE OF BEAMS, 6" MAX.
8. AT SLAB EDGES WITHOUT SPANDREL BEAMS, SEE. TYPICAL DETAILS FOR ADDITIONAL CONTINUOUS EDGE BARS AND FOR COLUMN STRIP BAR PLACEMENT PARALLEL TO SLAB EDGE.
9. PROVIDE 90 DEGREE HOOK AT EVERY DISCONTINUOUS TOP BAR, COLUMN AND MIDDLE STRIPS, AT EDGE OF SLAB, WITH OR WITHOUT SPANDREL BEAMS (2" CLEAR COVER TO HOOK.)

BAR LENGTH EXTENSION REQUIRED AT EPOXY COATED REINFORCEMENT (WHERE SPECIFIED ON PLANS)

1. TO REINFORCING BAR LENGTH SHOWN ON PLANS OR AS DETERMINED FROM TYPICAL DETAILS, ADD AND ADDITIONAL LENGTH AT EACH END (EXCEPT AT HOOK BARS) EQUALS TO 50% OF "Lds", BAR DEVELOPMENT LENGTH FOR SLABS. SEE TABLE.
2. DEVELOPMENT LENGTH "Lds" AND LAP SPLICE LENGTHS SHOWN ARE TO BE INCREASED BY 50% OVER VALUES FOR UNCOATED

NOTES FOR BOTTOM REINFORCEMENT:

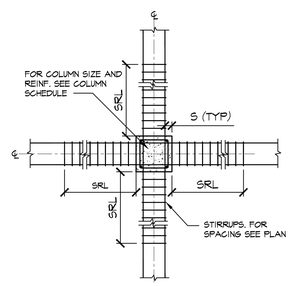
1. "C" DENOTES A COLUMN STRIP BAR, PART OF MAIN GRID. ADDITIONAL "C" DENOTES COLUMN STRIP BARS ADDITIONAL TO MAIN GRID BARS. "M" DENOTES A MIDDLE STRIP BAR, PART OF MAIN GRID.
2. PLACE ADDITIONAL BARS BETWEEN MAIN GRID BARS, IN COLUMN STRIPS GROUP ABOUT STRESS LINE. IN MIDDLE STRIPS DISTRIBUTE THROUGHOUT STRIP.
3. IN EDGE STRIP WITHOUT SPANDREL BEAMS START ADDITIONAL BARS 2" FROM CONTINUOUS EDGE BARS. - SEE TYPICAL DETAIL AT EDGE OF SLAB.



TYPICAL ONE WAY CONCRETE SLAB

ONE-WAY SLAB TEMPERATURE REINFORCING SCHEDULE *	
4" SLAB	#3 @ 12"
#5" SLAB	#3 @ 11"
#6 SLAB	#3 @ 10" OR #4 @ 18"
#7 SLAB	#3 @ 9" OR #4 @ 16"
#8 SLAB	#3 @ 13" OR #4 @ 18"
#9 SLAB	#4 @ 12" OR #5 @ 18"
#10 SLAB	#4 @ 11" OR #5 @ 17"
#12 SLAB	#4 @ 9" OR #5 @ 14"

* TEMP. REINF. MAY BE SPLICED AT ANY LOCATION (USE 1.7 ld)



TYPICAL STIRRUP DETAIL
SCALE: 1/2"=1'-0"

NOTE:
1. S = 3" MIN
2. STIRRUPS REINF. LENGTH (SRL) = 2'-6" U.O.N. ON PLAN.
3. TOP AND BOTTOM COVER =¾"

Clara Gomez
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STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11226 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	TYPICAL DETAILS - SLAB SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 02-06-2014	STATE OF NEW YORK · GENNADY SAPHTCHEV · LICENSED PROFESSIONAL ENGINEER	S-301.00 16 OF 24

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DEPT OF BLDGS 520991739 Job Number
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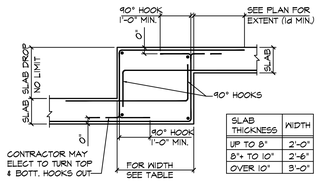
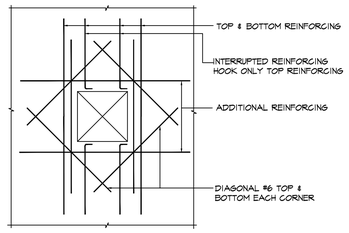


SLAB THICKNESS	WIDTH
UP TO 8"	2'-0"
8"+ TO 10"	2'-6"
OVER 10"	3'-0"

DROP IN TOP AND BOTTOM OF SLAB

SCALE: 1/2"=1'-0"

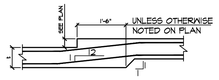


NOTES:

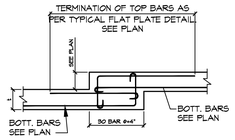
1. IF REINFORCING IS INTERRUPTED (TOP OR BOTTOM) HALF THE EQUIVALENT AREA SHALL BE PLACED ON EACH SIDE OF THE OPENING (1-#6 MIN. EACH SIDE).
2. IF OPENING IS LOCATED IN AREA OF NO TOP REINFORCING AND OPENING IS LARGER THAN 16"x16", PROVIDE 1-#6 TOP EACH SIDE OF OPENING.
3. IF OPENING IS SMALLER THAN SPACING OF NORMAL BARS, NO ADDITIONAL REINFORCING IS REQUIRED.
4. IF REINFORCING CAN NOT BE EXTENDED HOOK ADDITIONAL BARS.

DETAIL OF ADDITIONAL REINFORCING AT OPENING IN CONCRETE SLAB

SCALE: 1/2"=1'-0"

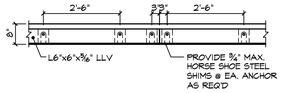


DROP FROM 1" TO t/2



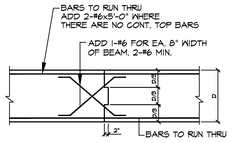
DROP GREATER THAN t/2

DETAILS OF REINFORCEMENT AT DROP IN SLAB

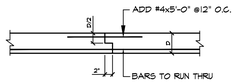


SHELF ANGLE DET 1

SCALE: 1/2"=1'-0"

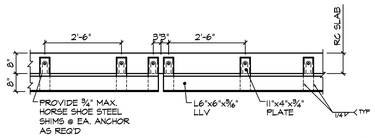


IN BEAM



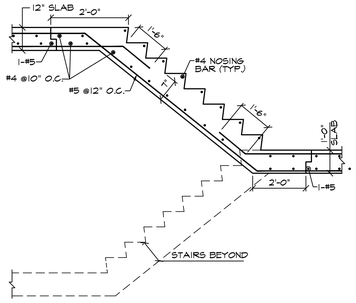
IN FRAMED SLAB

TYPICAL CONSTRUCTION JOINT DETAILS



SHELF ANGLE DET '2'

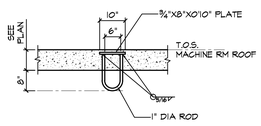
SCALE: 1/2"=1'-0"



TYPICAL STAIR DETAIL

SCALE: 3/8"=1'-0"

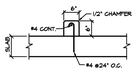
NOTE: SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS.



LIFTING HOOK AT ELEVATOR

SCALE: 1/2"=1'-0"

NOTE: MAX. LIFTING LOAD CAPACITY = 200 LBS. FOR HEAVIER LOADS AND SOLID PLATE WITH HOLE MUST BE PROVIDED



TYPICAL CURB DETAIL

NOTE:
SEE ARCHITECTURAL DRAWINGS FOR LOCATION.

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E500873924 14 Scan Code

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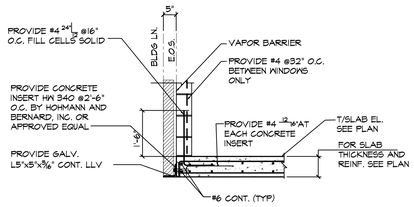
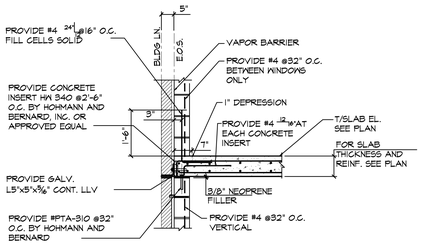


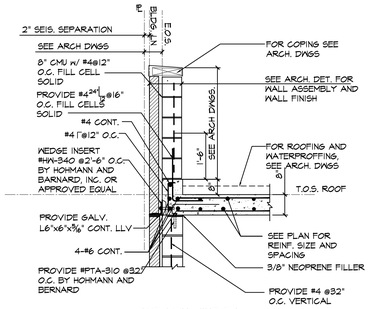
AT WINDOW



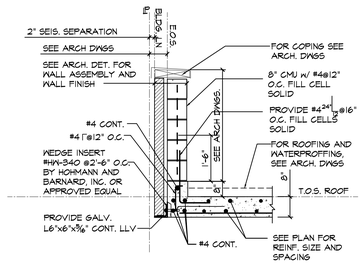
BETWEEN WINDOW

TYPICAL SECTION @FLOOR SLAB

SCALE: 1/2"=1'-0"



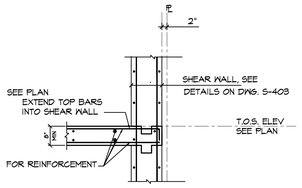
BETWEEN WINDOW



AT WINDOW

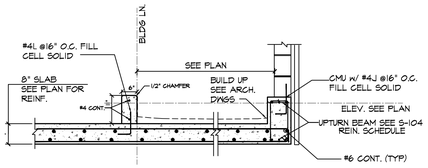
TYPICAL SECTION @ ROOF

SCALE: 1/2"=1'-0"



TYP. SLAB SECTION @SHEAR WALL

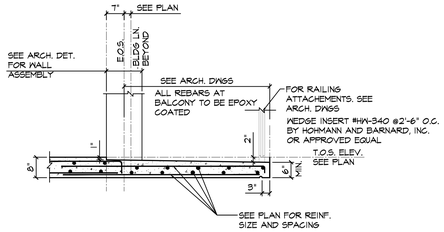
SCALE: 1/2"=1'-0"



NOTES:
1. FOR DOOR LOCATIONS, SEE ARCH. DWGS.
2. PROVIDE INSERT FOR WINDOW AND DOOR, SEE ARCH. DWGS. FOR ATTACHMENTS

TYPICAL SECTION @ TERRACE

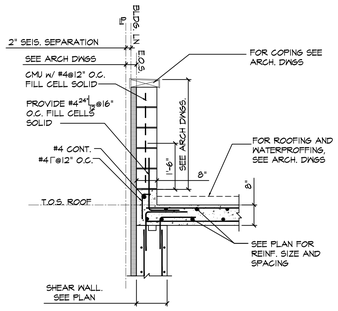
SCALE: 1/2"=1'-0"



NOTE:
1. PROVIDE INSERT FOR WINDOW AND DOOR, SEE ARCH. DWGS. FOR ATTACHMENTS
2. ALL REINF. OUTSIDE BUILDING SHALL BE EPOXY COATED

TYPICAL SECTION @ BALCONY

SCALE: 1/2"=1'-0"



TYPICAL SECTION @ ROOF AND TERRACE (ABOVE SHEAR WALL)

SCALE: 1/2"=1'-0"

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL:	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11222 P: (718) 332-2368 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 29 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	TYPICAL DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 02-06-2014	STATE OF NEW YORK GENNADY SAPOZHNIKOV LICENSED PROFESSIONAL ENGINEER	S-303.00 18 OF 24

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S:\Projects\2013.465 - 1035 Fulton Street Brooklyn NY 11238\Structural Drawings\S-300 TYPICAL DETAILS.dwg, S-303, 2/6/2014 1:16:20 PM

NYC TRANSIT
GENERAL NOTES

NOTE: THE APPROPRIATE NOTES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS.

1. THE NYC TRANSIT (NYCT) RESERVES THE RIGHT TO PLACE INSPECTOR'S, FLAGMAN OR OTHER PERSONNEL IN THE SUBWAY STRUCTURES DURING CONSTRUCTION OF THE PROJECT LINKED BY A TELEPHONE SYSTEM, IF DEEMED NECESSARY, TO OBSERVE THE EFFECTS OF THE CONSTRUCTION ON THE TRANSIT FACILITIES. IT IS EXPECTED THAT SUCH PERSONNEL WILL BE NECESSARY WHEN THE CONSTRUCTION COMES WITHIN TWENTY-FIVE FEET OF THE SUBWAY STRUCTURE. HOWEVER, NYCT FURTHER RESERVES THE RIGHT TO PLACE SUCH PERSONNEL WHENEVER, IN ITS OPINION, THE PROJECT CONDITIONS WARRANT SUCH PLACEMENT, REGARDLESS OF DISTANCE. THE COST OF SUCH PERSONNEL TELEPHONE INSTALLATION AND ANY RE-ROUTES, DIVERSIONS OF SERVICE, WORK TRAINS, ETC., MADE NECESSARY BY PROJECT, MUST BE BORNE BY THE PROJECT OR THE RESPONSIBLE NEW YORK CITY/STATE AGENCY.

2. ALL ROCK EXCAVATION ADJACENT TO THE TRANSIT STRUCTURE IS TO BE CHANNEL DRILLED TWO FEET BELOW SUBGRADE.

3. IF TOP OF ROCK IS FOUND BELOW SUBWAY STRUCTURE, THE SUBWAY STRUCTURE MUST BE UNDERPINNED IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

4. IF ROCK IS SOFT OR SEAMY, LATERAL SUPPORTS MUST BE PROVIDED BELOW THE SUBWAY STRUCTURE IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

5. BLASTING WILL BE PERMITTED ONLY WITH LIGHT CHARGES SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND IN ACCORDANCE WITH THE REGULATIONS OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE A DETAILED MONITORING PLAN, PROVIDING MEASUREMENTS OF BOTH PARTICLE VELOCITY AND DISPLACEMENTS AT CRITICAL LOCATIONS OF THE NYCT STRUCTURE. THE MONITORING PLAN SHALL INCLUDE THRESHOLD AND UPSET LEVELS OF BOTH PARTICLE VELOCITY AND SETTLEMENT. TOGETHER WITH AN ACTION PLAN FOR THEIR IMPLEMENTATION, THE CONTRACTOR SHALL SECURE AN APPROVED SEISMOLOGIST TO INSTALL AND OPERATE SUITABLE VELOCITY GAUGES TO CONTINUOUSLY MONITOR PARTICLE VELOCITY AND AN INDEPENDENT LICENSED SURVEYOR TO MONITOR DISPLACEMENTS. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE BLASTING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

6. BEFORE PLACING CONCRETE, THE SUBGRADE OF THE FOUNDATIONS IN THE VICINITY OF THE SUBWAY STRUCTURE IS TO BE INSPECTED AND APPROVED BY NYCT'S ENGINEER.

7. IF ANY PORTION OF THE SUBWAY STRUCTURE OR FINISH IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS IN PLACE, SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND AT THE EXPENSE OF THE PROJECT.

8. EXCAVATION EMBANKMENTS ARE TO BE SHORED AND BRACED. DRAWINGS INDICATING A SUGGESTED METHOD OF CONSTRUCTION ARE TO BE SUBMITTED TO NYCT FOR APPROVAL IN CONJUNCTION WITH THE PROJECT'S CONTRACT DRAWINGS. IN CASE OF EXCAVATION UNDERMINING THE SUBWAY STRUCTURE, UNDERPINNING MAY BE REQUIRED. DRAWINGS FOR UNDERPINNING ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

9. TEMPORARY SHORING MAY BE PLACED INDIRECT CONTACT WITH NYCT STRUCTURES ONLY IF THE NYCT STRUCTURE IS SHOWN TO BE ABLE TO SUPPORT ALL ANTICIPATED LOADS THAT CAN BE TRANSFERRED THROUGH THE TEMPORARY STRUCTURES WITHOUT DAMAGING THE EXISTING STRUCTURE. AT ONE COMPLETION OF THE PROJECT, THESE TEMPORARY SHORING AND BRACING SYSTEMS ARE TO BE REMOVED OR CUT-OFF AS APPROVED BY NYCT.

10. WHEN PILES ARE TO BE DRIVEN ADJACENT TO THE SUBWAY STRUCTURE, BORING DATA, PILE LAYOUTS, SPECIFICATIONS AND INSTALLATION PROCEDURES ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. VELOCITY METERS ARE TO BE INSTALLED IN THE SUBWAY TUNNEL AT CRITICAL LOCATIONS TO MONITOR INDUCED VIBRATIONS, INDUCED DISPLACEMENTS ALONG THE TUNNEL STRUCTURE AND TRACK INVERT ARE TO BE MONITORED DURING DRIVING. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE DRIVING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

11. NO PILES ARE PERMITTED TO BE INSTALLED BY ANY METHOD WITHIN THREE FEET OF SUBWAY STRUCTURE, MEASURED FROM THE EDGE OF THE PILE OR CASING TO THE WALL. CLOSED-END PILES WILL NOT BE PERMITTED TO BE DRIVEN WITHIN TEN FEET OF THE SUBWAY STRUCTURE.

12. ALL PILES ARE TO BE PLACED WITHIN A PREAUGERED CASED HOLE TO THE INFLUENCE LINE. THE CASING SHALL BE CLEANED WITHOUT DISTURBING THE SOIL OUTSIDE THE CASING AND THE PILE TO BE PLACED WITHIN THE CASING FOR INSTALLATION. THE PILES MAY THEN BE DRIVEN BEYOND THE INFLUENCE LINE WITHIN THE CASING.

13. THE INFLUENCE LINE SHALL START AT THE BOTTOM OF THE SUBWAY STRUCTURE AND EXTEND AT A 1:1 SLOPE. FOR PILES INSTALLED WITHIN TEN FEET OF THE SUBWAY STRUCTURE, THE CASING SHALL BE EXTENDED UP TO THE BOTTOM OF THE SUBWAY STRUCTURE.

14. AT THE COMPLETION OF PILE INSTALLATION, THE SPACE BETWEEN THE PILE AND CASING IS TO BE FILLED WITH EITHER CLEAN SAND OR GROUT. IF THE CASING IS TO BE REMOVED, THE FILLING MUST BE COMPLETED PRIOR TO REMOVAL OF THE CASING .

15. ALL PILES ARE TO BE DRIVEN A MINIMUM OF TEN FEET BELOW THE INTERSECTION OF THE PILE CENTER LINE AND THE INFLUENCE LINE OF THE SUBWAY STRUCTURE.

16. THE USE OF "DOWN-THE-HOLE-HAMMERS" FOR INSTALLATION OF PILES THROUGH OVERBURDEN AND FILL WILL BE PERMITTED ONLY TO REMOVE BOULDERS. IT WILL NOT BE PERMITTED AS A MATTER OF COURSE TO ADVANCE THE HOLE. THEIR USE TO CONSTRUCT ROCK SOCKETS WILL NOT BE ALLOWED WITHIN 5 FEET OF THE NYCT STRUCTURE.

17. VIBRATORY HAMMERS WILL NOT BE PERMITTED WITHIN 75 FEET OF SUBWAY STRUCTURES. HOERAMS WILL NOT BE PERMITTED WITHIN 25 FEET OF SUBWAY STRUCTURES.

18. DYNAMIC COMPACTION METHODS USING DROPPED HEAVY WEIGHTS CANNOT BE CONDUCTED WITHIN 1000 FEET OF ANY NYCT STRUCTURE UNLESS IT IS SHOWN THAT INDUCED SETTLEMENTS AND VIBRATIONS WILL NOT DAMAGE THESE STRUCTURES. A SUITABLE MONITORING PLAN INCLUDING SETTLEMENT AND VIBRATION MEASUREMENTS MUST BE APPROVED BY NYCT'S ENGINEER FOR ALL SUCH OPERATIONS WITHIN THESE DISTANCES.

19. THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3 FEET OF NYCT STRUCTURES, POWER DUCT LINES, OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.

20. ALL DEWATERING OPERATIONS CONDUCTED WITHIN 500 FEET OF THE NYCT STRUCTURE MUST BE PERFORMED IN ACCORDANCE WITH DRAWINGS AND PROCEDURES SUBMITTED TO NYCT FOR APPROVAL. THE DISTANCE FROM THE STRUCTURE TO THE DEWATERING OPERATION CAN BE REDUCED PROVIDED THAT SOIL CONDITIONS AT THE SITE INDICATE THAT THE RADIUS OF INFLUENCE OF THE DEWATERING IS LESS THAN 500 FEET. FOR DEWATERING WITHIN THE RADIUS OF INFLUENCE, THE DEWATERING PROGRAM MUST BE SHOWN TO HAVE NEGLIGIBLE INFLUENCE ON SETTLEMENTS OF THE NYCT STRUCTURE.

21. SUBWAY ENTRANCES (VENTILATORS, ETC.) ARE TO BE UNDERPINNED OR SHORED AND BRACED IF DIRECTED BY NYCT'S ENGINEER.

22. NYCT, AT ITS DISCRETION, RESERVES THE RIGHT TO REQUIRE THE PROJECT TO CLOSE OR MAINTAIN AND PROTECT EXISTING SUBWAY ENTRANCES, VENTILATORS, ETC. ADJACENT TO THE PROJECT DURING CONSTRUCTION. SUCH CONSTRUCTION MAY INCLUDE UNDERPINNING, SHORING, BRACING AND ERECTION OF SUITABLE BARRICADES AND/OR CANOPIES AND SHIELDS. SUCH PROTECTION SHALL BE IN ACCORDANCE WITH DRAWINGS SUBMITTED TO NYCT FOR APPROVAL.

23. IF SHIELDS ARE TO BE INSTALLED TO PROTECT NYCT FACILITIES AND/OR THE PUBLIC, PLANS, SHOWING THE LOCATION, TYPE AND METHOD OF ATTACHMENT TO THE TRANSIT STRUCTURE MUST BE SUBMITTED TO NYCT FOR APPROVAL.

24. ALL LUMBER AND PLYWOOD USED FOR PROTECTION OF SUBWAY FACILITIES MUST BE FIRE RETARDANT.

25. SUBWAY EMERGENCY EXITS MUST BE KEPT CLEAR AT ALL TIMES.

26. IN EXCAVATING OVER OR NEAR THE SUBWAY ROOF, SPECIAL CARE SHALL BE EXERCISED SO THAT THE THIN CONCRETE PROTECTION OF THE SUBWAY WATERPROOFING IS NOT DAMAGED.

27. BURNING OF, WELDING TO OR DRILLING THROUGH EXISTING STEEL STRUCTURES WILL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS APPROVED BY NYCT.

28. HORIZONTAL AND VERTICAL CONTROL SURVEY DATA OF THE EXISTING NYCT STRUCTURE IS TO BE TAKEN BY A LICENSED LAND SURVEYOR TO MONITOR ANY MOVEMENTS THAT OCCUR DURING CONSTRUCTION AND TO SHOW THAT THE INDUCED MOVEMENTS ARE WITHIN ALLOWABLES PROVIDED AND APPROVED BY NYCTS ENGINEER. IF ANY MOVEMENTS EXCEED ALLOWABLES, REMEDIATION AS APPROVED BY NYCT SHALL BE PERFORMED.

29. BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE BUS DIVERSIONS. THESE ARRANGEMENTS SHALL BE MADE THROUGH:

MS. SARAH WYSS
ACTING DIRECTOR, OPERATIONS PLANNING
NEW YORK CITY TRANSIT
2 BROADWAY, ROOM A17.82
NEW YORK, NEW YORK 10004
TELEPHONE NUMBER (646) 252-5517

WHEN IMPACTING ANY BUS STOP, SPECIAL OPERATIONS MUST BE NOTIFIED TWO WEEKS IN ADVANCE.

30. DUCT LINES MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ANY INTERFERENCE WITH DUCT LINES SHOULD BE REPORTED TO NYCT INSPECTOR. WHEN A DUCT LINE CONTAINING CABLES IS TO BE REMOVED OR WHEN MASONRY ADJACENT THERETO IS TO BE REMOVED, PENETRATED, OR DRILLED, THE WORK SHALL BE DONE WITH HAND LABOR ENTIRELY, USING HAMMER AND CHISEL. JACKHAMMERS, BULL POINTS OR OTHER POWER EQUIPMENT SHALL NOT BE USED.

31. WHERE MANHOLES ARE ENCOUNTERED:
A) THEY SHALL BE PROTECTED AND RAISED OR LOWERED AS REQUIRED, TO MATCH THE NEW STREET GRADE.
B) IF MANHOLE COVERS ARE RAISED OR LOWERED, PROTECT CABLES IN MANHOLE BY WOOD SHEETING OF 2" NOMINAL THICKNESS.
C) PRIOR TO THE START OF CONSTRUCTION OPERATIONS AFFECTING MANHOLES AND DUCT LINES, SEVEN DAYS NOTICE MUST BE GIVEN TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE OF WAY, AT (718) 694-1358.

32. CONSTRUCTION WORK DONE NEAR VENT GRATINGS AND HATCHES SHALL BE AS FOLLOWS:
A) UNLESS APPROVED BY THE NYCTS ENGINEER, ALL VENT GRATINGS AND HATCHES SHOULD REMAIN OUTSIDE THE CONSTRUCTION SITE, SEPARATED BY A CONSTRUCTION FENCE. PROTECTIVE SHIELDS MUST BE PROVIDED OVER VENT GRATINGS AS REQUIRED BY NYCTS ENGINEER.
B) NO BUILDING MATERIAL, VEHICLES OR CONSTRUCTION EQUIPMENT IS TO BE STORED OR RUN OVER VENT, GRATINGS, HATCHES OR EMERGENCY EXISTS.
C) DETAILS OF SIDEWALK RECONSTRUCTION AROUND VENT GRATINGS, HATCHES AND EMERGENCY EXITS ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

33. TRACTORS, CRANES, EXCAVATORS, ETC. USED IN THE VICINITY OF THE ELEVATED STRUCTURES SHALL BE ISOLATED FROM THE GROUND. SINCE THE ELEVATED STRUCTURE IS USED AS A NEGATIVE RETURN PATH, WITH A CONSEQUENT POTENTIAL BETWEEN IT AND THE GROUND, ANY CONTACT BETWEEN THE STRUCTURE AND GROUNDED EQUIPMENT COULD RESULT IN BURNING OF THE STEEL.

34. TEMPORARY CONSTRUCTION SHEDS, BARRICADES OR PLYWOOD PARTITIONS MUST BE A MINIMUM OF 5'-0" FROM EDGE OF FINISHED PLATFORM.

35. STATION AREAS OR STAIRWAY/CLOSINGS: THE GENERAL REQUIREMENTS FOR STATION AREAS OR STAIRWAY/CLOSINGS ARE AS FOLLOWS:
A) ONLY ONE STAIRWAY AT EACH STATION MAY BE PERMITTED TO BE CLOSED AT THE SAME TIME. APPROVALS FOR CLOSING ANY STAIRWAY MUST BE OBTAINED FROM THE DIVISION OF STATION OPERATIONS AT LEAST THREE WEEKS IN ADVANCE.
B) MR. AGNELO PATEL, DIRECTOR, OFFICE OF STATION PROGRAMS, TELEPHONE (718) 694-1695 OF THE DIVISION OF STATIONS MUST BE NOTIFIED ONE WEEK PRIOR TO THE ACTUAL CLOSING AND REOPENING OF THE ENTRANCE.
C) AMPLE SIGNAGE MUST BE SUPPLIED AND POSTED AT LEAST ONE WEEK IN ADVANCE, ADVISING THE PUBLIC OF THE PROPOSED STAIR CLOSING.
D) THE STREET ENTRANCE STAIRWAY SHOULD NOT BE CLOSED UNLESS MANPOWER AND MATERIALS ARE AVAILABLE TO COMMENCE WORK ON DATES PERMITTED.
E) ONCE UNTIL FINAL ACCEPTANCE BY THE AUTHORITY, SIGNAGE MUST BE PLACED AT APPROPRIATE LOCATIONS ON THE BARRICADES AT THE STREET AND MEZZANINE LEVELS, STATING THE CONTRACTOR'S NAME, 24 HOUR EMERGENCY TELEPHONE NUMBER, FLAGMEN AND OTHER EMPLOYEES OF THE CLOSING, DIRECTION TO AN ALTERNATE ENTRANCE/EXIT, AND AN APOLOGY FOR THE INCONVENIENCE TO OUR CUSTOMERS.
F) EXISTING STATION SIGNAGE MUST BE ADJUSTED TO REFLECT ANY CHANGES IN ACCESS/EGRESS.
G) BARRICADES ARE TO BE PAINTED AND KEPT GRAFFITI FREE AT ALL TIMES. THE CONTRACTOR MUST MAINTAIN THE BARRICADED AREA CLEAN OF ALL DEBRIS.
H) ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM PASSENGER TRAFFIC.
I) THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL AND BARRICADES FROM ALL STATION AREAS WHEN CONSTRUCTION IS COMPLETED.
J) INSPECTION OF THE AREA UNDER CONSTRUCTION BY AUTHORIZED STATION DEPARTMENT EMPLOYEES SHALL NOT BE INHIBITED.
K) IF STREET LIGHTS ON THE SIDEWALKS ARE AFFECTED, TEMPORARY LIGHTS SHALL BE PROVIDED.

36. IF NEW CONCRETE CONSTRUCTION IS JOINED TO EXISTING CONCRETE, DOWELS AND KEYWAYS ARE TO BE USED IN ACCORDANCE WITH NYCT STANDARDS.

37. IF THE PROJECT INVOLVES CONSTRUCTION OR ALTERATION OF A SUBWAY FACILITY ON PRIVATE PROPERTY, THE PROPERTY OWNERS WILL BE REQUIRED TO ENTER INTO AN AGREEMENT WITH NYCT PERTAINING TO ALL WORK AFFECTING THE TRANSIT FACILITIES AND CLEARLY DEFINING LIMITS AND RESPONSIBILITY FOR MAINTENANCE AND LIABILITY.

38. WHEREVER A NEW SIDEWALK IS BEING PLACED ADJACENT TO NYCT STRUCTURES THE FOLLOWING WILL BE REQUIRED:
A) THE TOP OF THE NEW SIDEWALK SHALL BE FLUSH WITH THE SUBWAY VENT GRATINGS, HATCHES AND EMERGENCY EXITS.
B) THE SLOPE OF THE NEW SIDEWALK SHALL BE SUCH THAT THE DRAINAGE BE AWAY FROM THESE STRUCTURES.
C) A 1/2" PREMOLDED FILLER SHALL BE INSTALLED BETWEEN THE NEW SIDEWALK AND NYCT STRUCTURE.
D) WHERE SIDEWALK ELEVATIONS ARE BEING CHANGED DETAILS OF PROPOSED WORK AROUND NYCT STRUCTURES ARE TO BE SUBMITTED FOR APPROVAL.

39. BEFORE THE START OF ANY WORK, THE CONTRACTOR SHALL MAKE AN EXAMINATION IN THE PRESENCE OF NYCT'S ENGINEER, OF THE INTERIOR AND EXTERIOR OF NYCT SUBWAY OR OTHER STRUCTURE ADJACENT TO THE PROPOSED WORK. THE PERSON OR PERSONS AUTHORIZED BY THE CONTRACTOR TO MAKE THESE EXAMINATIONS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PHOTOGRAPHS AS MAY BE NECESSARY OR ORDERED TO INDICATE THE EXISTING CONDITION OF NYCT STRUCTURE. ONE COPY OF EACH PHOTOGRAPH, EIGHT INCHES BY TEN INCHES IN SIZE, AND THE NEGATIVE IS TO BE SUBMITTED TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE-OF-WAY, 130 LIVINGSTON STREET, ROOM 8044D, BROOKLYN, NEW YORK, 11201 TELELPHONE (718) 694-1358 BEFORE THE START OF CONSTRUCTION.

40. ALL ARCHITECTURAL DETAILS (TOKEN BOOTHS, RAILINGS, DOORS, ETC.) ARE TO CONFORM TO THE LATEST NYCT STANDARDS. THESE STANDARDS ARE AVAILABLE AT NYCT.

41. STANDARD NYCT INSURANCE CLAUSES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS. PROOF THAT THE NECESSARY INSURANCE IS IN EFFECT WILL BE REQUIRED BEFORE WORK CAN COMMENCE.

42. AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO TRANSIT FACILITIES, ONE SET OF VELLUMS OR MYLARS, FIVE SETS OF 35MM MICROFILM, AND ELECTRONIC COPIES COMPLYING TO MICROSTATION.DGN FORMAT OF "APPROVED AS-BUILTS" MUST BE PROVIDED TO NYCT FOR ITS RECORDS. FOR DETAILS OF SPECIFIC REQUIREMENTS CONTACT NYCT OUTSIDE PROJECTS.

43. AT LEAST SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OPERATIONS, NOTIFICATION MUST BE GIVEN TO MR. J. MALVASIO, P.E., MANAGER, DEPARTMENT OF MAINTENANCE-OF-WAY, AT (718) 694-1358. THE CONTRACTOR TO PROVIDE TEMPORARY QUARTERS NEAR THE JOB SITE FOR NYCT INSPECTORS CONTAINING A DESK AND TELEPHONE.

A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES (INCLUDING DEATH) TO PERSONS (INCLUDING, BUT NOT LIMITED TO EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS AND EMPLOYEES OF THE CITY OF NEW YORK (HEREINAFTER CALLED THE CITY) OR THE NEW YORK CITY TRANSIT AUTHORITY (HEREINAFTER CALLED THE AUTHORITY) OR DAMAGE TO PROPERTY (INCLUDING BUT NOT LIMITED TO, PROPERTY OF THE CITY, THE AUTHORITY OR THE CONTRACTOR OR SUBCONTRACTORS) OCCURRING ON ACCOUNT OF OR IN CONNECTION WITH PERFORMANCE OF THE WORK HERE UNDER AND SHALL INDEMNIFY AND SAVE HARMLESS THE CITY AND THE AUTHORITY FROM LOSS AND LIABILITY UPON ANY AND ALL CLAIMS ON ACCOUNT OF SUCH INJURIES TO PERSONS OF DAMAGE TO PROPERTY, AND FROM ALL COST AND EXPENSES IN SUITS WHICH MAY BE BROUGHT AGAINST THE CITY AND/OR THE AUTHORITY FOR SUCH INJURIES TO PERSONS OR DAMAGE TO PROPERTY, IRRESPECTIVE OF THE ACTUAL CAUSE OF THE ACCIDENT AND IRRESPECTIVE OF WHETHER IT SHALL HAVE BEEN DUE TO NEGLIGENCE OR THE CONTRACTOR OR HIS SUBCONTRACTORS OR NEGLIGENCE OF THE CITY OR AUTHORITY, THEIR RESPECTIVE AGENTS, SERVANTS OR EMPLOYEES, OR OF ANY OTHER PERSON BUT EXCEPTING INJURIES AND PROPERTY DAMAGE CAUSED BY OR RESULTING FROM THE SOLE NEGLIGENCE OF THE CITY AND/OR THE AUTHORITY ACTING AS AGENT OF THE CITY HERE UNDER. THE TERM "LOSS AND LIABILITY" AS USED ABOVE, SHALL BE DEEMED TO INCLUDE, BUT NOT TO BE LIMITED TO , LIABILITY FOR THE PAYMENT OF WORKERS COMPENSATION BENEFITS UNDER THE WORKERS COMPENSATION LAW OF THE STATE OF NEW YORK, AND THE CONTRACTOR SPECIFICALLY COVENANTS TO REIMBURSE THE AUTHORITY AND THE CITY FOR AFT PAYMENTS OF WORKERS COMPENSATION BENEFITS, INCLUDING BUT NOT LIMITED TO BENEFITS PAID TO EMPLOYEES OF THE AUTHORITY AND THE CITY WHICH THE AUTHORITY OR THE CITY SHALL BE REQUIRED TO MAKE TO ANY EMPLOYEE WHO SHALL CLAIM TO HAVE SUSTAINED INJURIES ON ACCOUNT OF OR IN CONNECTION WITH THE WORK HERE UNDER, WHETHER OR NOT SUCH INJURIES SHALL HAVE BEEN SUSTAINED AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, HIS SUBCONTRACTORS, THE AUTHORITY OR THE CITY, THEIR RESPECTIVE AGENTS, SERVANTS OR EMPLOYEES, OR NEGLIGENCE OF THE INJURED EMPLOYEE, BUT EXCEPTING BODILY INJURIES AND PROPERTY DAMAGE CAUSED BY OR RESULTING FROM THE SOLE NEGLIGENCE OF THE CITY AND/OR THE AUTHORITY ACTING AS AGENT OF THE CITY HEREUNDER.

B. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SUPPORT, MAINTENANCE, SAFETY AND PROTECTION OF THE TRANSIT FACILITIES OF THE NEW YORK CITY TRANSIT SYSTEM (HEREINAFTER CALLED THE RAILROAD) AND THE SAFETY AND PROTECTION OF ALL PERSONS, PASSENGERS, INTENDING PASSENGERS OR EMPLOYEES AND OTHER PERSONS, AND OF ALL PROPERTY THEREIN, AND HE/SHE SHALL BE SOLELY RESPONSIBLE AND LIABLE FOR ANY INJURY AND DAMAGE THEREFORE AND ALL INJURIES TO PERSONS OR DAMAGE TO PROPERTY THEREIN OCCURRING ON ACCOUNT OF OR IN CONNECTION WITH THE PERFORMANCE OF WORK UNDER THIS CONTRACT WHETHER DUE TO THE NEGLIGENCE, FAULT OR DEFAULT OF THE CONTRACTOR OR NOT

THE CONTRACTOR SHALL FULLY PROTECT AND INDEMNIFY THE CITY AND THE AUTHORITY FROM LOSS AND FROM LIABILITY UPON ANY AND ALL CLAIMS ON ACCOUNT OF DAMAGE TO THE RAILROAD, OR ON ACCOUNT OF SUCH INJURIES TO PASSENGERS, INTENDING PASSENGERS, EMPLOYEES OR OTHER PERSONS OR DAMAGE TO PROPERTY, OR ON ACCOUNT OF INTERRUPTION OF TRAIN OPERATION, OR ON ACCOUNT OF ANY WORK DONE BY THE CONTRACTOR ON OR AFFECTING THE RAILROAD, AND FROM ANY COSTS AND EXPENSES IN SUITS WHICH MAY BE BROUGHT AGAINST THE CITY AND/OR THE AUTHORITY FOR SUCH INJURIES OR DAMAGE.

C. IN CASE ANY DAMAGE SHALL OCCUR TO ANY PART OF THE RAILROAD ON ACCOUNT OF OR IN CONNECTION WITH THE WORK HEREUNDER AND THE CONTRACTORS IS RESPONSIBLE THEREFORE PURSUANT TO PARAGRAPH (A) HEREOF, THE CITY AND/OR THE AUTHORITY SHALL HAVE THE RIGHT TO CAUSE SUCH DAMAGE TO BE REPAIRED AND CHARGE THE EXPENSE OF SUCH REPAIRS TO THE CONTRACTOR AND TO BE REIMBURSE FOR THE AMOUNT OF SUCH EXPENSE FROM ANY MONEYS DUE OR BECOMING DUE TO THE CONTRACTOR HEREUNDER

D. APPROVAL BY THE CHIEF ENGINEER, MAINTENANCE OF WAY, OF THE METHODS OF DOING THE WORK OR THE FAILURE OF THE CHIEF ENGINEER TRACK STRUCTURES, TO CALL ATTENTION TO IMPROPER OR INADEQUATE METHODS OR TO REQUIRE A CHANGE IN METHODS OR TO DIRECT THE CONTRACTOR TO MAKE ANY PARTICULAR PRECAUTION OR TO REFRAIN FROM DOING ANY PARTICULAR THING SHALL NOT EXCUSE THE CONTRACTOR IN CASE OF ANY SUCH INJURY TO PERSON OR DAMAGE TO PROPERTY IT IS UNDERSTOOD AND AGREED TO IF DURING THE COURSE OF THE WORK UNDER THIS CONTRACT, WATCHMEN, FLAGMEN AND OTHER EMPLOYEES OF THE CITY AND/OR THE AUTHORITY ARE ASSIGNED TO PERFORM WORK IN CONNECTION THEREWITH, SUCH EMPLOYEES ARE TO BE CONSIDERED AS EMPLOYEES OF THE CONTRACTOR.

E. THE CONTRACTOR SHALL PROCURE, AT ITS SOLE COST AND EXPENSE, AND SHALL PROCURE AT ITS SOLE COST AND EXPENSE, AND SHALL MAINTAIN IN FORCE AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE AUTHORITY, INSURANCE AS HEREIN BELOW SET FORTH, WRITTEN BY COMPANIES APPROVED BY THE AUTHORITY AND SHALL DELIVER TO THE AUTHORITY EVIDENCE OF SUCH POLICIES. A CERTIFICATE OF INSURANCE MAY BE SUPPLIED AS EVIDENCE OF SUCH POLICIES, PROVIDED THAT UPON REQUEST BY THE AUTHORITY, THE CONTRACTOR SHALL DELIVER TO THE AUTHORITY A COPY OF SUCH POLICIES, CERTIFIED BY THE INSURANCE CARRIER AS BEING A TRUE AND COMPLETE COPY. THE CERTIFICATE OF INSURANCE AND INSURANCE POLICIES MUST (1.) INDICATE THE I.S. O. FORM USED BY THE CARRIER (2) HE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE BROKER OR THE INSURANCE CAREER, (3.) DISCLOSE ANY DEDUCTIBLES, SELF-INSURED RETENTION (DEDUCTIBLES OR SELF-INSURED RETENTIONS ABOVE $25,000 WILL REQUIRE APPROVAL FROM THE AUTHORITY), ASSRESATE LIMIT OR ANY EXCLUSIONS TO THE POLICY THAT MATERIALLY CHANGE THE COVERAGE; (4.) INDICATE THAT THE NYCTA, MABSTOA, SIRTOA, MTA, ITS SUBSIDIARIES AND AFFILIATED COMPANIES AND THE CITY OF NEW YORK AND ALL OTHER INDEMNIFIED PARTIES INCLUDED IN THE CONTRACT ARE NAMED AS ADDITIONAL INSUREDS ON ALL POLICIES (EXCEPT WORKERS COMPENSATION OR PROFESSIONAL LIABILITY); (5.) REFERENCE THE CONTRACT ON THE FACE OF THE CERTIFICATE; (6.) INDICATE THAT A SPECIAL CANCELLATION PROVISION, WHICH SHALL READ "THE AUTHORITY IS INTERESTED IN THE MAINTENANCE OF THIS INSURANCE, AND IT IS AGREED THAT THIS INSURANCE WILL NOT BE CANCELED, MATERIALLY CHANGED OR NOT RENEWED WITHOUT AT LEAST 30 DAYS PRIOR WRITTEN NOTICE TO THE AUTHORITY, ATTENTION DIRECTOR - RISK MANAGEMENT, ROOM 1006-4, 130 LIVINGSTON STREET, BROOKLYN, NEW YORK 11201, BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED"; AND (7.) INDICATE THAT THE COVERAGE AFFORDED UNDER THE POLICIES SHALL APPLY AS PRIMARY AND NOT EXCESS OR CONTRIBUTING BASIS WITH ANY POLICIES WHICH MAY BE AVAILABLE TO THE AUTHORITY. AT LEAST TWO WEEKS PRIOR TO THE EXPIRATION OF THE ORIGINAL POLICIES OR ANY RENEWAL OR REPLACEMENT POLICIES OF INSURANCE, WITH THE SAME TERMS AND LIMITS AS EXPIRING, SHALL BE DELIVERED TO THE AUTHORITY.

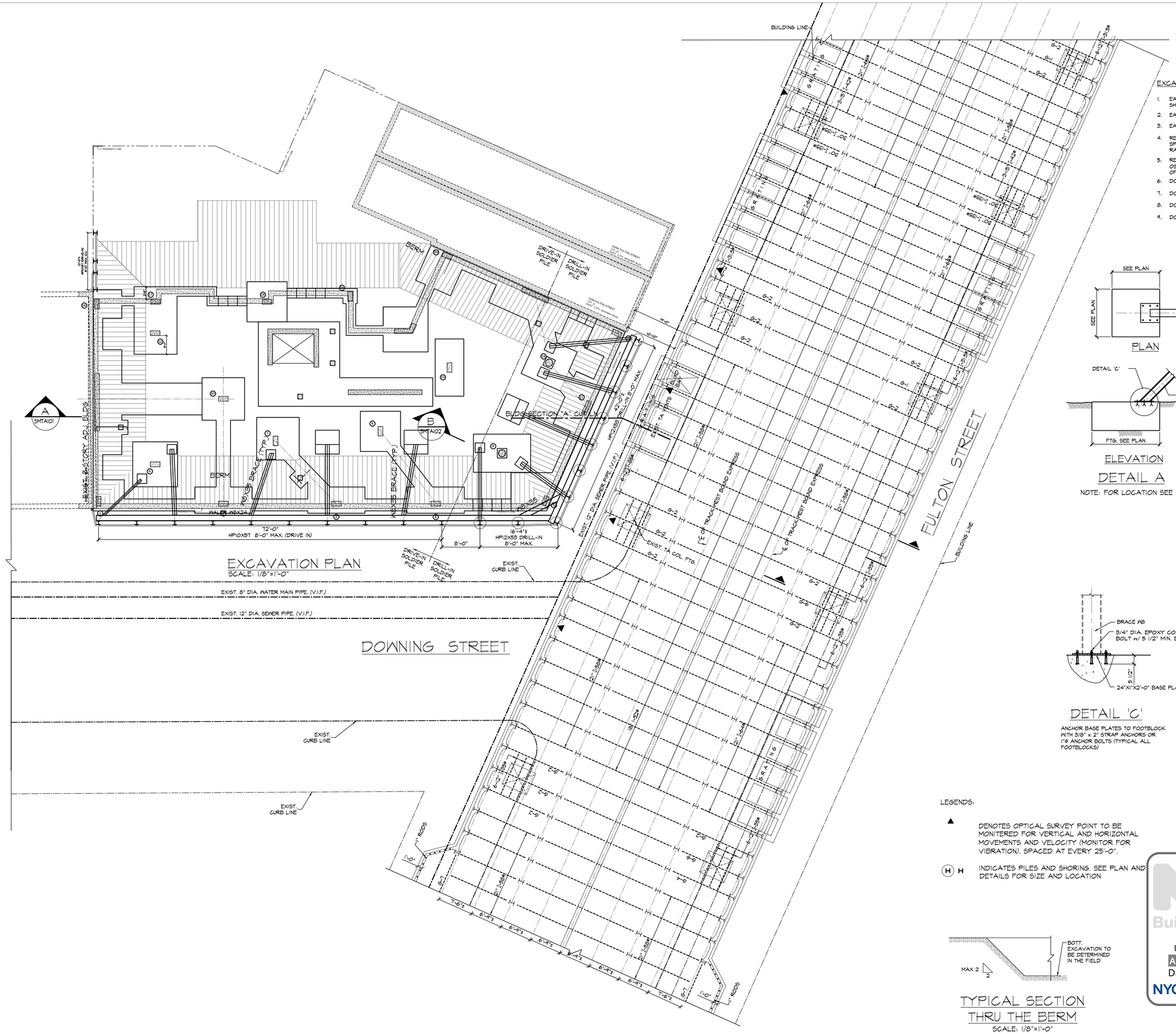
NYCT "OUTSIDE CONTRACT" INSURANCE REQUIREMENTS

A. WORKER'S COMPENSATION INSURANCE (INCLUDING EMPLOYER'S LIABILITY INSURANCE WITH LIMITS OF NOT LESS THAN $2,000,000, WHICH LIMIT MAY BE MET BY A COMBINATION OF PRIMARY AND EXCESS INSURANCE) MEETING THE STATUTORY LIMITS OF NEW YORK STATE, WHEN APPLICABLE, THE POLICY SHALL BE ENDORSED TO INCLUDE THE LONGSHORE AND HARBOR WORKERS' COMPENSATION ACT AND/OR MARITIME COVERAGE ENDORSEMENT (JONES ACT ENDORSEMENT).

B. A COMMERCIAL GENERAL LIABILITY INSURANCE POLICY (I.S.O. FORM CG 00 11 88 OR EQUIVALENT) IN THE CONTRACTOR'S NAME WITH THE NEW YORK CITY TRANSIT AUTHORITY (NYCTA), MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY (MOBSTOA), STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY (SIRTOA), METROPOLITAN TRANSPORTATION AUTHORITY (MTA), ITS SUBSIDIARIES AND AFFILIATED COMPANIES, THE CITY OF NEW YORK AND ALL OTHER INDEMNIFIED PARTIES INCLUDED IN THE CONTRACT AS ADDITIONAL INSUREDS (I.S.O. FORM CG 20 10) WITH LIMITS OF LIABILITY OF $2,000,000 EACH OCCURRENCE ON A COMBINED SINGLE LIMIT BASIS (AGGREGATE MUST BE AT LEAST $4,000,000) FOR INJURIES (BODILY INJURIES, INCLUDING DEATH AND PERSONAL INJURIES) TO PERSONS AND FOR DAMAGE TO PROPERTY. SUCH POLICIES SHALL INCLUDE:
B.1. CONTRACTUAL COVERAGE FOR LIABILITY ASSUMED BY THE CONTRACTOR UNDER THIS CONTRACT.
B.2. PERSONAL AND ADVERTISING INJURY COVERAGE.
B.3. PRODUCTS AND COMPLETED OPERATIONS EXTENDING AT LEAST ONE YEAR AFTER PROJECT COMPLETION
B.4. INDEPENDENT CONTRACTORS COVERAGE.
B.5. "XCU" COVERAGE (EXPLOSION, COLLAPSE, AND UNDERGROUND HAZARDS) WHERE NECESSARY
B.6. CONTRACTUAL LIABILITY EXCLUSION, APPLICABLE TO CONSTRUCTION OR DEMOLITION OPERATIONS TO BE PERFORMED WITHIN 50 FEET OF RAILROAD TRACKS, MUST BE REMOVED, WHERE NECESSARY.
B.7. ADDITIONAL INSURED ENDORSEMENT (I.S.O. FORM CG 20 10 1185 VERSION OR EQUIVALENT APPROVED BY THE AUTHORITY) NAMING THE FOLLOWING ENTITIES AND THEIR SUBSIDIARIES AND AFFILIATES

C. A RAILROAD PROTECTIVE LIABILITY (OR OWNER'S PROTECTIVE LIABILITY "Y IF NO RAILROAD EXPOS

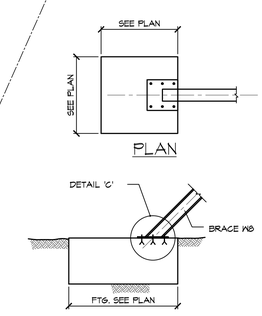
DEPT OF BLDGS 500991739 Job Number
E500315033 Scan Code



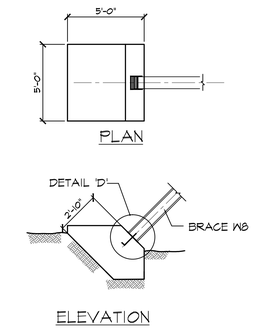
EXCAVATION PLAN
SCALE: 1/8"=1'-0"

EXCAVATION SAFETY GUIDELINES

1. EACH SIDE OF EXCAVATION THAT IS 5 FEET OR DEEPER MUST BE PROTECTED BY SHORING/BRACING AND SHEETING OR BE SLOPED.
2. EACH OPEN SIDE OF AN EXCAVATION SHALL HAVE A GUARDRAIL OR EXISTING FENCE.
3. EACH EXCAVATION SHALL HAVE A WAY OUT, SUCH AS A LADDER OR RAMP.
4. REGULARLY CHECK THE WALL OF AN EXCAVATION FOR CRACKS, BULGES AND SPALLING AND CHECK THE SHORING FOR SIGNS OF DISTRESS - ESPECIALLY AFTER RAINSTORM.
5. REFER TO § 27-1032 OF THE NYC BUILDING CODE (WWW.NYC.GOV/BUILDINGS) AND OSHA'S REGULATIONS (WWW.OSHA.GOV) FOR DETAILS ON THE PROPER PROTECTION OF AN EXCAVATION.
6. DO NOT WORK IN AN EXCAVATION FILLED WITH RUNNING OR STANDING WATER.
7. DO NOT WORK IN AN EXCAVATION THAT IS NOT PROPERLY PROTECTED.
8. DO NOT STORE SPOIL, MATERIALS OR EQUIPMENT ALONG THE EDGE OF AN EXCAVATION.
9. DO NOT DRIVE OR PARK VEHICLES ALONG THE EDGE OF AN EXCAVATION.

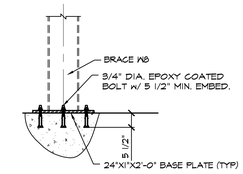


DETAIL A
NOTE: FOR LOCATION SEE PLAN



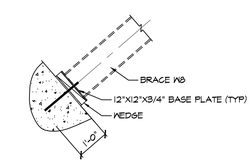
FOOTBLOCK DETAIL

DETAIL B
NOTE: FOR LOCATION SEE PLAN



DETAIL 'C'

ANCHOR BASE PLATES TO FOOTBLOCK WITH 3/8" x 2" STRAP ANCHORS OR 1"Ø ANCHOR BOLTS (TYPICAL ALL FOOTBLOCKS)



DETAIL 'D'

ANCHOR BASE PLATES TO FOOTBLOCK WITH 3/8" x 2" STRAP ANCHORS OR 1"Ø ANCHOR BOLTS (TYPICAL ALL FOOTBLOCKS)

LEGENDS:

▲ DENOTES OPTICAL SURVEY POINT TO BE MONITERED FOR VERTICAL AND HORIZONTAL MOVEMENTS AND VELOCITY (MONITOR FOR VIBRATION). SPACED AT EVERY 25'-0".

(H) H INDICATES PILES AND SHORING. SEE PLAN AND DETAILS FOR SIZE AND LOCATION

TYPICAL SECTION THRU THE BERM
SCALE: 1/8"=1'-0"

MATERIALS

1. ALL STEEL SOLDIER BEAMS, WALES, DIAGONAL STRUTS, RAKERS, PLATES, ETC. SHALL CONFORM TO ASTM SPECIFICATION A36 AND SHALL BE FURNISHED IN THE SECTIONS INDICATED.
2. TIMBER LAGGING SHALL BE SOUTHERN PINE, DOUGLAS FIR, OR MIXED OAK WITH AN ALLOWABLE EXTREME FIBER BENDING STRENGTH OF 1200 PSI. TIMBER LAGGING SHALL BE FURNISHED AS FULL 3" THICK BOARDS, NOT DRESSED.
3. LEAN CONCRETE FOR FILLING CASINGS SHALL BE A ONE-BAG MIX WITH A COMPRESSIVE STRENGTH OF [illegible] PSI.
4. [illegible] SHALL BE IN ACCORDANCE WITH AWS [illegible] BUILDING CODE - STEEL D1.1" LATEST [illegible] WELDING.
5. CONCRETE FOR FOOTBLOCKS SHALL BE IN [illegible] ELECTRODES SHALL BE E70XX. REQUIREMENTS AND SHALL ACHIEVE A MINIMUM COMPRESSIVE

Clara Gomez
Building Commissioner
APPROVED
Under Directive 2 of 2975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-0266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New Yoak NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	EXCAVATION PLAN AND DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. MTA FILING 06-21-2013 3. MTA COMM. 08-09-2013 4. MTA COMM. 09-04-2013 DOB FILING 02-04-2014	STATE OF NEW YORK GENNADY SARYCHEV ASSOCIATE ENGINEER	SMTA-100.00

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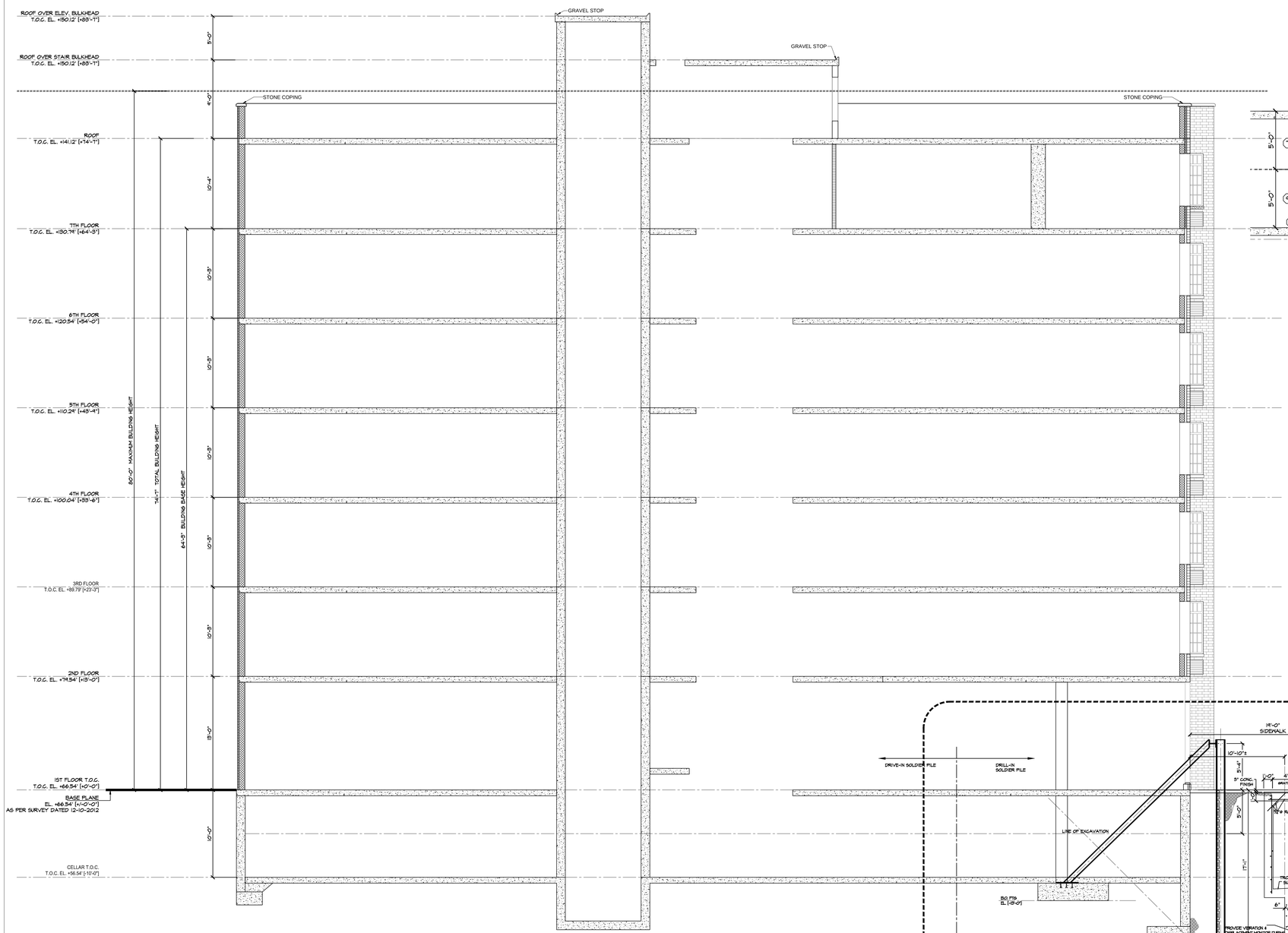
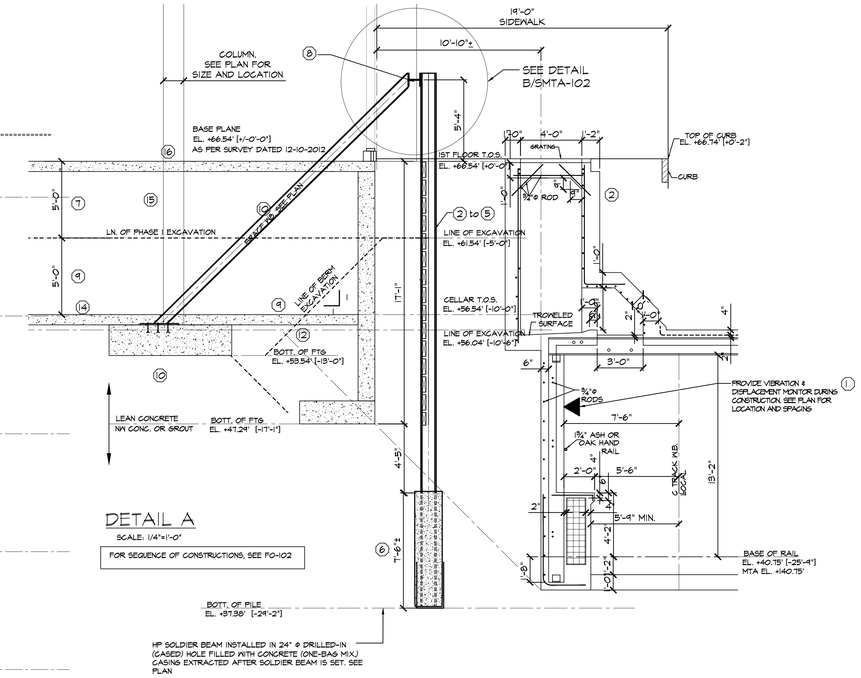


BUILDING SECTION "A"

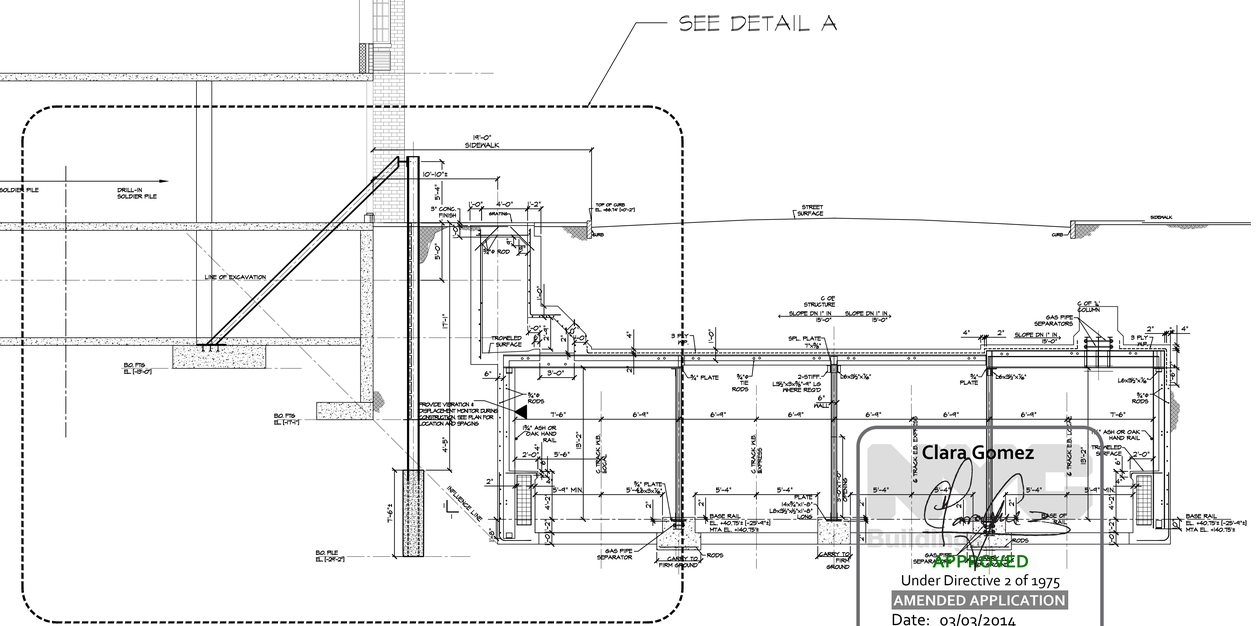
SCALE: 3/16"=1'-0"



DETAIL A

SCALE: 1/4"=1'-0"

FOR SEQUENCE OF CONSTRUCTIONS, SEE FO-102



Clara Gomez

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dickey Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1039 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	BUILDING SECTION SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. MTA FILING 06-21-2013 3. MTA COMM. 08-09-2013 4. MTA COMM. 09-04-2013	STATE OF NEW YORK GENNADY SARYCHEV LICENSED PROFESSIONAL ENGINEER	SMTA-101.00

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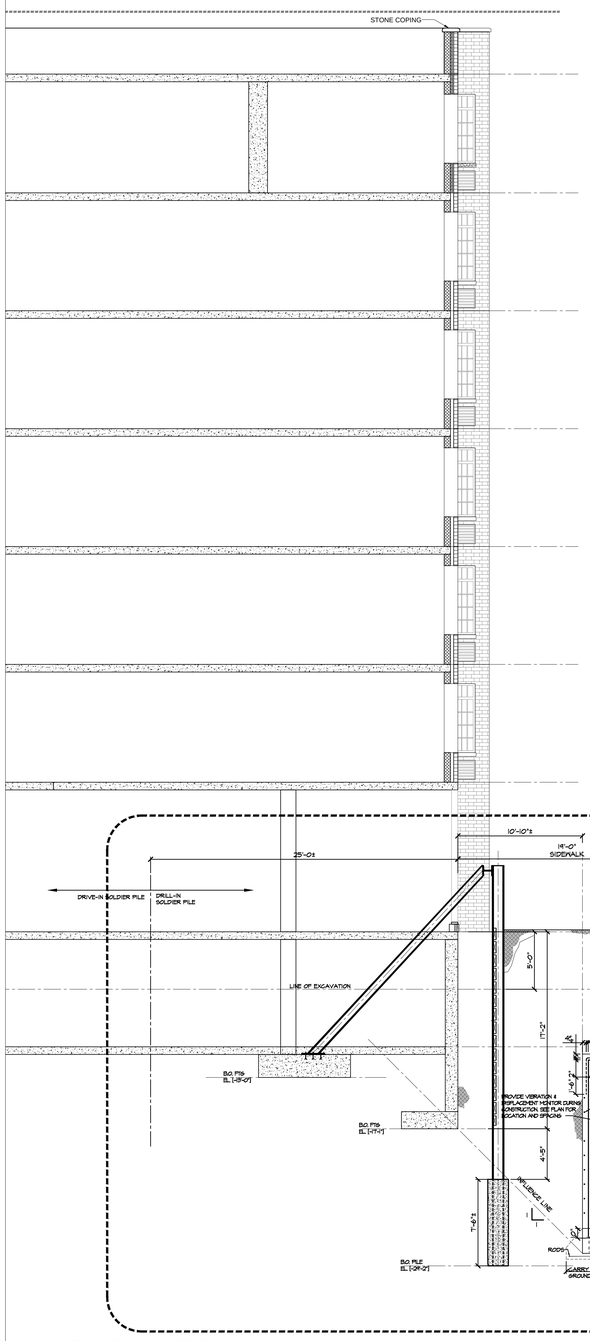
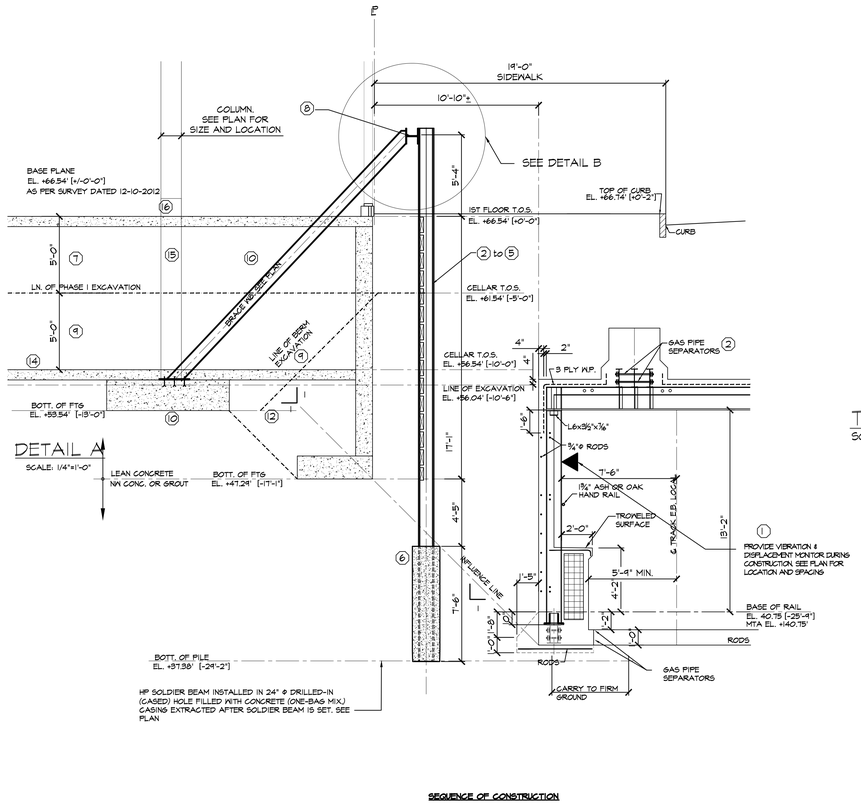


BUILDING SECTION "B"

SCALE: 3/16"=1'-0"

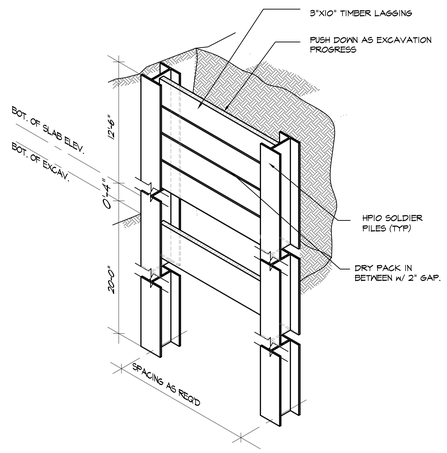


DETAIL A

SCALE: 1/4"=1'-0"

LEAN CONCRETE NN CONC. OR GROUT

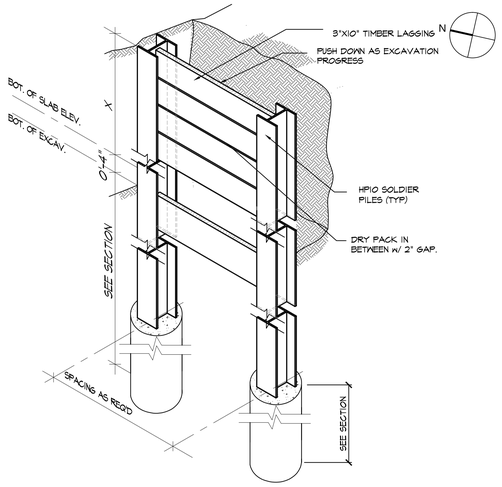
BOTT. OF FTG EL. +47.24' [-17'-1"]



TYP. SHORING DETAIL (DRIVE IN PILES)

SCALE: N.T.S.

SHOWN THUS ON PLAN



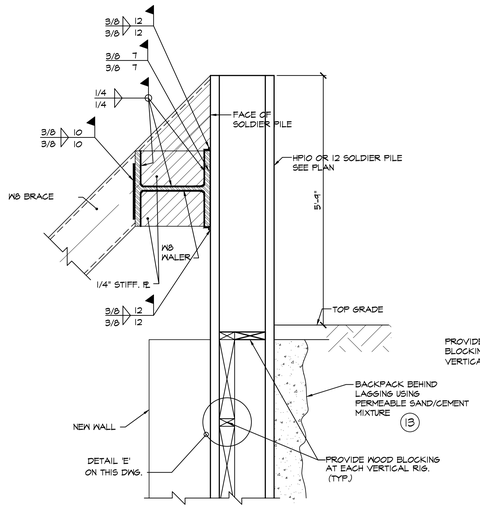
TYP. PILES DETAIL (DRILL-IN) CLOSE TO MTA

NOTE: BRACING AND WALERS NOT SHOWN FOR CLARITY.

SCALE: N.T.S.

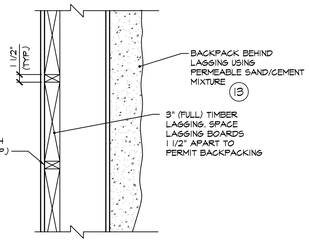
NOTE: CASING SHALL NOT BE PULLED OUT

SHOWN THUS ON PLAN



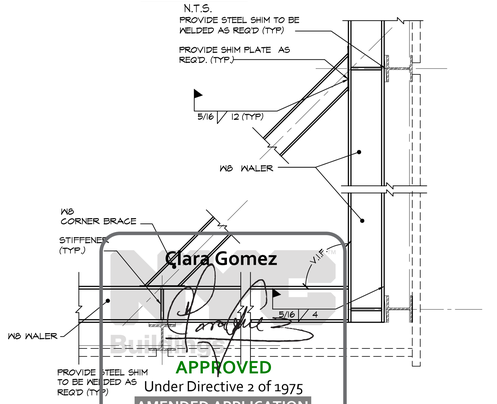
DETAIL B

N.T.S.



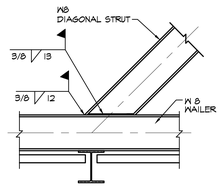
DETAIL C

N.T.S.



WALE / WALE CORNER CONNECTION DETAIL

SCALE: 1/2"=1'-0"



WALE/DIAGONAL STRUT CONNECTION

SCALE: 1/2"=1'-0"

SEQUENCE OF CONSTRUCTION

1. INSTALL VIBRATION MONITORING DEVICE FOR T/A STRUCTURE. SEE PLAN AND SECTION FOR LOCATION. BEFORE AUGERING CASINGS, CONTRACTOR TO VERIFY LOCATION OF, AND CLEAR,
2. CONTRACTOR TO LOCATE AND MARK ALL UTILITY LINES UNDER SIDEWALK.
3. SET UP THE RIG ON PROPER LOCATION AND PLUMB THE MAST. ALL PILES SHALL BE INSTALLED IN THE LOCATION SHOWN ON THESE DRAWINGS.
4. INSTALL FIRST PIECE OF CASING WITH ATTACHED CARBIDE CUTTING TEETH.
5. DRILL-IN 24" DIAMETER STEEL CASINGS TO TIP ELEVATION 24'-8" BELOW SIDEWALK. CASINGS SHALL NOT BE DRIVEN, MAINTAIN A SOIL PLUG AT BOTTOM OF CASING AT ALL TIMES. MAINTAIN A POSITIVE WATER HEAD IN THE CASING TO PREVENT INFLOW OF SOIL AND WATER INTO THE CASING. DRILLING TO BE PERFORMED USING DUPLEX DRILLING INTERNAL FLUSHING METHOD.
6. CLEAN OUT CASING TO 3'-0" ABOVE TIP ELEVATION OF SOLDIER PILE. MAINTAINING 3 FEET OF SOIL PLUG OR USING DRILLING "MUD" TO PREVENT INFLOW OF SOIL AND WATER INTO THE CASING. INSTALL SOLIDER BEAM CENTERED IN CASING. FILL CASING TO EXISTING GRADE WITH CONCRETE (ONE BAG PER CUBIC YARD) AND EXTRACT CASING.
7. EXCAVATE TO EL. [-5'-0"] +61.54. EXCAVATION TO PROCEED IN TIERS NOT TO EXCEED 2 FEET IN HEIGHT AND PHASE AS SHOWN ON SOE-100. LAGGING TO BE BACKPACKED BEFORE EXCAVATING NEXT TIER.
8. INSTALL WALE WITH CENTERLINE AT EL. 71.96 [+5'-4"]. WELD WALE TO EVERY SOLDIER BEAM AS SHOWN AND SHORING BETWEEN SOLDIER BEAM AND WALE WHEREVER NECESSARY TO INSURE CONTACT BETWEEN SOILDER BEAM AND WALE. INSTALL DIAGONAL STRUT. LEAVING SOIL BERM UP AGAINST SOILDER BEAMS, EXCAVATE LOCALLY FOR
9. EXCAVATE TO EL. [-10'-6"] +54.04. MAINTAIN 45 DEGREE BERM FROM AROUND PERIMETER.
10. INSTALL FOOTBLOCKS NO CLOSER THAN 14 FEET FROM FACE OF SOLDIER BEAMS. CONSTRUCT FOOTBLOCKS, INSTALL STEEL RAKERS BY WELDING THEM TO SOLDIER
11. PILE AT TOP AS SHOWN, AND WEDGING STEEL WEDGES AT BOTTOM TO ELIMINATE ALL SLACK FROM SYSTEM.
12. REMOVE BERM FROM PERIMETER. EXCAVATE TO SUB-GRADE ELEVATION +47.24 [-17'-1"], CONTINUING TO INSTALL TIMBER LAGGING AS EXCAVATION PROGRESSES. EXCAVATION TO PROCEED IN TIERS NOT TO EXCEED 2 FEET IN HEIGHT. LAGGING TO BE BACKPACKED BEFORE EXCAVATING NEXT TIER.
13. TIMBER LAGGING BOARDS SHALL BE "LOUVERED", THAT IS SPACED 1 1/2" TO 2" APART TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS BEHIND THE LAGGING. LAGGING SHALL BE BACKPACKED WITH PERMEABLE MATERIAL TO PREVENT ANY BUILD-UP OF HYDROSTATIC PRESSURE BEHIND SHEETING. SEE "DETAIL E." INSTALL ALL FOOTING FOR COLUMNS, SHEAR WALLS AND PERIMETER WALLS
14. INSTALL ALL SLAB ON GRADE AT ELEVATIONS AS SHOWN ON PLAN
15. INSTALL COLUMNS, SHEAR AND WALLS PERIMETER WALLS
16. INSTALL FIRST FLOOR FRAMED SLAB AT ELEVATION SHOWN ON PLAN.
17. AFTER 21 DAYS OF CONCRETE CURING, EXCAVATE AND EXPOSE SOLDIER PILES AND LOGGING 2 FT BELOW FUTURE SIDEWALK ELEVATION. CUT RAKERS, WALERS, SOLDIER PILES AND LOGGING. FILL 2'-0" SPACE WITH COMPACTED FILL

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	DRAWING NO.
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2013.465

HVAC SYSTEM SPECIFICATION

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES & ORDINANCES. CONTRACTOR SHALL ALSO FOLLOW THE LATEST EDITION OF STANDARDS OF ASHRAE AND SMACNA FOR THE INSTALLATION OF THE SYSTEM.
2. ALL WORK SHALL BE PROPERLY COORDINATED WITH OTHER TRADES AND EXISTING CONDITIONS TO AVOID CONFLICTS.
3. THIS CONTRACTOR SHALL CHECK FIELD CONDITIONS PRIOR TO SUBMITTING A PROPOSAL. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
4. THE WORK INDICATED ON THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF DUCTWORK, PIPING AND EQUIPMENT. THE CONTRACTOR MAY MAKE CHANGES IN WRITING, SUBJECT TO THE OWNERS APPROVAL,WITH NO ADDITIONAL COST TO THE CONTRACT.
5. ALL MATERIAL, WORK, INCIDENTAL ACCESSORIES OR OTHER DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT, AND IN ALL RESPECTS READY FOR OPERATION, EVEN IF NOT SPECIFIED, IS TO BE PROVIDED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. IT IS THE INTENTION OF THE CONTRACT DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ALL MATERIALS SHALL BE NEW OF FIRST QUALITY AND SIMILAR TO EXISTING WHERE THEY INTERFACE.
7. IF ANY EXISTING DUCTWORK, PIPES, UTILITIES, ECT. ARE DAMAGED DURING THE INSTALLATION, WHETHER OR NOT DUE TO CONTRACTOR'S NEGLIGENCE, IT IS TO BE REPAIRED OR REPLACED AND LEFT IN CONDITION SATISFACTORY TO THE OWNER.
8. ALL PACKAGED AIR CONDITIONING UNITS, AIR HANDLERS, BLOWERS, FURNACES,CONDENSING UNITS TO BE INSTALLED WITH APPROPRIATE VIBRATION ISOLATORS.
9. ALL REFRIGERANT SUCTION AND LIQUID LINES SHALL HAVE 1" ARMFLEX INSULATION.
10. ALL SUPPLY AND RETURN DUCTWORK WITHIN 15 FEET OF AIR CONDITIONING UNIT SHALL HAVE 1" THICK ACOUSTIC LINING.
11. PROVIDE CLOCK-TYPE THERMOSTAT FOR EACH AIR CONDITIONING SYSTEM WITH COOLING AND HEATING, CLOCK ON THERMOSTAT TO OPERATE ON 24 VOLTS DC.
12. ALL DUCTWORK PENETRATING FIRE RATED WALLS SHALL HAVE APPROVED FIRE DAMPERS AND ACCESS DOORS.
13. SMOKE DETECTORS APPROVED FOR DUCT INSTALLATION SHALL BE INSTALLED IN ALL AIR CONDITIONING SYSTEMS OVER 2,000 CFM IN THE MAIN SUPPLY DUCT ON THE DOWNSTREAM SIDE OF THE FILTERS TO AUTOMATICALLY STOP THE FAN IN THE EVENT OF SMOKE CONDITION.
14. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL DUCTWORK AND EQUIPMENT TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
15. THIS CONTRACTOR SHALL MAKE ANY AND ALL TESTS REQUIRED TO DEMONSTRATE THAT THE OPERATION OF THE INSTALLED SYSTEM COMPLIES WITH ALL CODE'S APPLICABLE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS.

BUILDING DEPARTMENT NOTES

1. ENERGY UTILIZATION. HEATING, VENTILATING AND AIR-CONDITIONIG SYSTEMS OF ALL STRUCTURES SHALL BE DESINED AND INSTALLED FOR EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
2. FUEL GAS APPLIANCES AND EQUIPMENT. THE APPROVAL AND INSTALLATION OF FUEL GAS DISTRIBUTION PIPING AND EQUIPMENT, FUEL GAS-FIRED APPLIANCES AND FUEL GAS-FIRED APPLIANCE VENTING SYSTEMS SHALL BE IN ACCORDANCE WITH THE NEW YORK CITY FUEL GAS CODE.
3. LISTED AND LABELED. ALL APPLIANCES REGULATED BY THE NEW YORK CITY MECHANICAL CODE SHALL BE LISTED AND LABELED.
4. FUEL TYPES. FUEL FIRED APPLIANCES SHALL BE DESIGNED FOR USE WITH THE TYPE OF FUEL TO WHICH THEY WILL BE CONNECTED AND THE ALTITUDE AT WHICH THEY ARE INSTALLED. APPLIANCES THAT COMPRISE PARTS OF THE BUILDING MECHANICAL SYSTEM SHALL NOT BE CONVERTED FOR THE USAGE OF A DIFFERENT FUEL, EXCEPT WHERE APPROVED AND CONVERTED IN ACCORDANCE WITH THE MANUFACTURER' INSTRUCTIONS. THE FUEL INPUT RATE SHALL NOT BE INCREASED OR DECREASED BEYOND THE LIMIT RATING FOR THE ALTITUDE AT WHICH THE APPLIANCE IS INSTALLED.
5. VIBRATION ISOLATION. WHERE VIBRATION ISOLATION OF EQUIPMENT AND APPLIANCES IS EMPLOYED, SUPPLEMENTAL RESTRAINT SHALL BE USED TO ACCOMPLISH THE SUPPORT AND RESTRAINT.
6. REPAIR. DEFECTIVE MATERIAL OR PARTS SHALL BE REPLACED OR REPAIRED IN SUCH A MANNER SO AS TO PRESERVE THE ORIGINAL APPROVAL OR LISTING.
7. WIND RESISTANCE. MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE.
8. FLOOD HAZARD. FOR STRUCTURES LOCATED IN AREAS OF SPECIAL FLOOD HAZARD, MECHANICAL SYSTEMS, EQUIPMENT AND APPLIANCES SHALL COMPLY WITH APPENDIX G OF THE NEW YORK CITY BUILDING CODE.
9. SEISMIC RESISTANCE. WHEN EARTHQUAKE LOADS ARE APPLICABLE IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE, MECHANICAL SYSTEM SUPPORTS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE.
10. STRUCTURAL SAFETY. THE BUILDING OR STRUCTURE SHALL NOT BE WEAKENED BY THE INSTALLATION OF MECHANICAL SYSTEMS, WHERE FLOORS, WALLS, CEILINGS OR ANY OTHER PORTION OF THE BUILDING OR STRUCTURE ARE REQUIRED TO BE ALTERED OR REPLACED IN THE PROCESS OF INSTALLING OR REPAIRING ANY SYSTEM, THE BUILDING OR STRUCTURE SHALL BE LEFT IN A SAFE STRUCTURAL CONDITION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE.
11. PENETRATIONS OF FLOOR/CEILING ASSEMBLIES AND FIRE-RESISTANCE-RATED ASSEMBLIES. PENETRATIONS OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE.
12. VENTILATION REQUIRED. EVERY OCCUPIED SPACE SHALL BE VENTILATED BY NATURAL MEANS IN ACCORDANCE WITH SECTION 402 OR BY MECHANICAL MEANS IN ACCORDANCE WITH SECTION 403.
13. OUTDOOR DISCHARGE. THE AIR REMOVED BY EVER MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED OUTDOORS AT A POINT WHERE IT WILL NOT CAUSE A NUISANCE AND FROM WHICH IT CANNOT AGAIN BE READILY DRAWN IN BY A VENTILATING SYSTEM. AIR SHALL NOT BE EXHAUSTED INTO AN ATTIC OR CRAWL SPACE.
14. DUCT SYSTEM USED FOR THE MOVEMENT OF AIR IN AIR-CONDITIONING, HEATING, VENTILATING AND EXHAUST SYSTEMS SHALL CONFORM TO THE PROVISIONS OF CHAPTER 6 OF NEW YORK CITY MECHANICAL CODE.
15. DUCT INSULATION SHALL CONFORM TO THE REQUIREMENT OF SECTIONS 604.2 THROUGH 604.13 AND THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
16. HEATING AND AIR-CONDITIONING SYSTEMS OF THE CENTRAL TYPE SHALL BE PROVIDED WIYH APPROVED AIR FILTERS. FILTERS SHALL BE INSTALLED IN THE RETURN AIR SYSTEM, UPSTREAM FROM ANY HEAT EXCHANGER OR COIL, IN AN APPROVED CONVENIENT LOCATION. LIQUID ADHESIVE COATINGS USED ON FILTERS SHALL HAVE A FLASH POINT NOT LOWER THAN 325° F (163° C).
17. THE NEW YORK CITY FUEL GAS CODE SHALL APPLY TO THE INSTALLATION OF FUEL-GAS PIPING SYSTEMS, FUEL-GAS UTILIZATION EQUIPMENT AND RELATED ACCESSORIES IN ACCORDANCE WITH SECTIONS 101.2.2 THROUGH 101.2.5.
18. PIPING SYSTEMS. THESE REGULATIONS COVER PIPING SYSTEMS FOR NATURAL GAS WITH AN OPERATING PRESSURE OF 125 POUNDS PER SQUARE INCH GAUGE (PSIG) (862 kPa GAUGE) OR LESS. COVERAGE SHALL EXTEND TO THE OUTLET OF THE EQUIPMENT SHUTOFF VALVES. PIPING SYSTEMS REQUIREMENTS SHALL INCLUDE DESIGN, MATERIALS, COMPONENTS, FABRICATION, ASSEMBLY, INSTALLATION, TESTING, INSPECTION, OPERATION AND MAINTENANCE.
19. ENERGY UTILIZATION. HEATING, VENTILATING AND AIR-CONDITIONING SYSTEMS OF ALL STRUCTURES SHALL BE DESIGNED AND INSTALLED FOR EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
20. MECHANICAL SYSTEMS. HYDRONIC PIPING, VENTILATION AND OTHER MECHANICAL SYSTEMS NOT COVERED BY THIS CODE SHALL BE IN ACCORDANCE WITH THE NEW YORK CITY MECHANICAL CODE. CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

COOLING & HEATING/VENTILATING

1. SCOPE OF WORK

A. PROVIDE ALL MATERIALS, ACCESSORIES, AND LABOR TO INSTALL, CLEAN, TEST, ADJUST AND SET IN OPERATION A COMPLETE SYSTEM AS INDICATED ON THE DRAWING AND SPECIFICATIONS AND CONFORMING TO ALL AUTHORITIES HAVING JURISDICTION.
B. IF MENTION HAS BEEN OMITTED OF ANY WORK NECESSARY FOR COMPLETION OF INSTALLATION, THAN SUCH WORK MUST BE DESCRIPTION OF THE WORK TO BE DONE.

1. SHEET METAL DUCTWORK.
2. DIFFUSERS AND REGISTERS.
3. VOLUME DAMPERS.
4. DUCT AND PIPING INSULATION.
5. HANGERS AND SUPPORTS.
6. BATHROOM EXHAUST FAN.
7. AUTOMATIC CONTROL SYSTEM
8. TESTING AND BALANCING.
9. SUBMISSION OF SHOP DRAWING.
10. GUARANTEE.

2. GENERAL

A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND IN COMPLIANCE WITH ALL DRAWINGS.
B. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS IN ACCORDANCE WITH THE ENGINEER'S REQUIREMENTS.

4. TESTING AND BALANCING.

A. AFTER THE INSTALLATION IS COMPLETED THE ENTIRE SYSTEM SHALL BE TESTED AND BALANCED TO VERIFY COMPLIANCE WITH DESIGN RATINGS.

5. GUARANTEE

THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

6. DUCTWORK

A. ALL DUCTWORK SHALL HAVE GALVANIZED STEEL WITH GAUGES IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE. INSTALL HORIZONTAL DUCTS WITH GALVANIZED HANGAR STRAPS ATTACHED TO BOTH SIDES AND BOTTOM OF DUCT AT INTERVALS FOR EXCEEDING 4'-0". PROVIDE ACCESS DOORS FOR ALL TYPES OF DAMPERS. ALL ACCESS DOORS TO HAVE HEAVY-DUTY BRASS FINISHED HINGES AND LATCHES. AFTER FANS ARE IN OPERATION ALL DUCTS THAT RATTLE, VIBRATE, BUCKLE OR GENERATE NOISE SHALL BE REPAIRED AND/OR BRACED WITH STIFFENERS AND/OR SUPPORTS UNTIL RIGID AND FREE OF ANY VIBRATION. REPLACE ALL DAMPERS AND ACCESSORIES THAT RATTLE OR GENERATE NOISE WHEN FANS ARE STARTED OR OPERATING. ALL RECTANGULAR ELBOWS ARE TO BE EQUIPPED WITH TURNING VANES. SUPPLY DUCTS BRANCH TAKEOFFS SHALL BE CONSTRUCTED WITH NECKS AND SPLITTER DAMPERS EXCEPT WHERE OTHERWISE INDICATED.
B. ALL SUPPLY DUCTWORK SHALL BE SEALED AIRTIGHT WITH MINNESOTA MINING CO.; TYPE 800 SEALED COMPOUND.

7. DIFFUSERS AND REGISTERS

TOP REGISTERS MODEL NO. ANEMOSTAT OR EQUAL
RETURN REGISTERS MODEL NO. ANEMOSTAT OR EQUAL
CEILING DIFFUSERS MODEL NO. ANEMOSTAT OR EQUAL

8. VOLUME DAMPERS

A. 16 GAUGE GALVANIZED STEEL INTERLOCKING BLADES WITH HEMMED EDGES, AND A GALVANIZED STEEL FRAME, IN DUCTS OVER 15" DEEP USE MULTIPLE OPPOSED BLADE TYPE, GANG OPERATED DAMPERS WITH A MAXIMUM BLADE OF 10". IN SMALLER DUCTS USE SINGLE BLADES BUTTERFLY TYPE MAXIMUM LENGTH OF INDIVIDUAL BLADES IS 48".FOR LARGER SECTIONS USE MULTIBLADE AND FRAME SECTIONS.

9. DUCT INSULATION

ALL INSULATION AND ACCESSORIES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
A. ALL NEW DUCT INSULATION TO BE 1-1/2" THICK.
B. ALL SUPPLY AND RETURN DUCTS (15'-0" FROM UNIT) SHALL BE INTERNALLY LINED WITH 1" THICK ACCUSTIC AEROFLEX DUCT LINER. THE DUCT SIZE SHALL BE INCREASED TO PROVIDE THE CLEAR INSIDE DIMENSIONS AS NOTED ON PLAN.

10. HANGERS AND SUPPORTS

A. SUPPORT DUCTWORK FROM BUILDING STRUCTURE BY MEANS OF GALVANIZED STEEL HANGER STRAPS AT 4'-0" INTERVALS.
B. PROVIDE ALL LATERAL SUPPORT BRACING AS REQUIRED TO SUIT FIELD CONDITIONS AND SATISFY ALL LOCAL CODES AND ORDINANCES.

11. AUTOMATIC TEMPERATURE CONTROL

A. COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROLS INCLUDING CONTROL WIRING AND REQUIRED INTERLOCKS SHALL BE PROVIDED BY THIS CONTRACTOR.
B. WHERE MODULATING SERVICES IS CALLED FOR PROPORTIONING MOTORS AND CONTROLS SHALL BE USED.
C. WIRE AIR CONDITIONING UNITS AS PER MANUFACTURER'S RECOMMENDATIONS.
D. ALL STARTERS AND DISCONNECT SWITCHES SHALL BE PROVIDED BY THIS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

PROFESSIONAL STATEMENT:

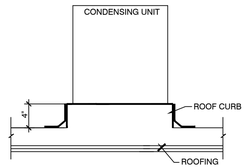
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

SUPPLY REGISTER SCHEDULE.

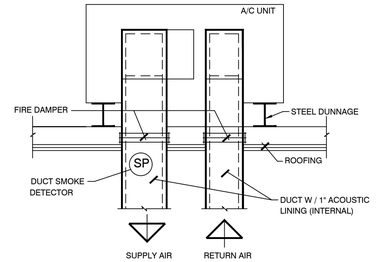
SUPPLY REGISTER SIZE	CFM RANGE
6x4	75
12x4	100
10x6	150
12x6	200
16x6	300
20x6	350
16x8	450
20x8	500
30x6	600
24x8	700
18x12	1400

RETURN AIR GRILL SCHEDULE.

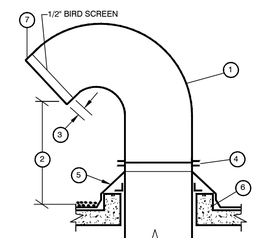
R/A GRILL SIZE	CFM RANGE
8x6	100
8x8	150
10x8	200
18x6	250
18x8	300
22x8	400
28x8	450
24x12	600
20x18	700
24x18	800
36x16	1000
36x20	1200
36x24	1400
48x24	1800
48x30	2000
48x36	2500
60x36	10000



CONDENSING UNIT INSTALLATION DETAIL
N.T.S.

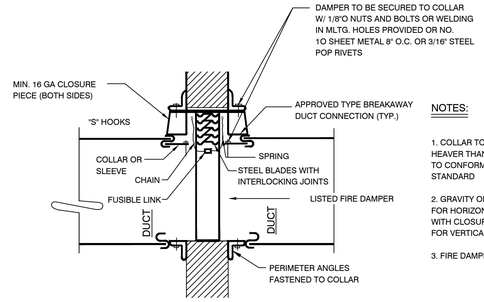


A/C UNIT SECTION DETAIL N.T.S.



1 HEAVY-GAUGE SHEET-METAL DUCT WITH PITTSBURGH LOCK SEAM
2 12" (300MM) MINIMUM
3 1 1/2" (38MM) MINIMUM
4 1 1/2" (38MM) STANDING, SEAM RIVETED OR BOLTED ON 12" (300MM) CENTERS
5 FLUSHING WITH WELDED CORNER SEAMS
6 ROOF CURB
7 1 1/2" X 1 1/2" X 1/ 1/2" X 1/4" (38 X 38 X 6-MM) ANGLE, ALL AROUND BOLTED WITH 1/4" (6-MM) BOLTS TO DUCT

GOOSENECK
N.T.S.

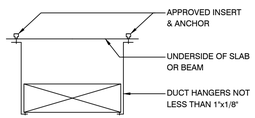


SHUTTER FIRE DAMPER

NOT TO SCALE

NOTES:

1. COLLAR TO BE SAME GA. OR HEAVER THAN DUCT (12 GA. MIN) TO CONFORM W/S.M.A.C.N.A. OR ASHRAE STANDARD
2. GRAVITY OPERATED FIRE DAMPER FOR HORIZONTAL DUCTWORK & WITH CLOSURE SPRING AND LATCHES FOR VERTICAL DUCTWORK.
3. FIRE DAMPER BSA NUMBER - 292-71-SA.



HANGER SIZES FOR RECTANGULAR DUCT SHALL BE AS FOLLOWS

LONGEST DIMENSION OF DUCT	ROUND HANGERS	MAX. SPACING SEE NOTE # 4	STRAP HANGERS	TRAPEZE SHELF ANGLES
UP TO 18"	8 GA. WIR	3'-0"	1"x1/8"	1"x1"x1/8"
19" TO 30"	1/4" ROD	3'-0"	1"x1/8"	1"x1"x1/8"
31" TO 42"	1/4" ROD	3'-0"	1"x1/8"	1 1/2"x1 1/2"x1/8"
43" TO 60"	3/8" ROD	4'-0"	—	1 1/2"x1 1/2"x1/8"
61" TO 84"	3/8" ROD	4'-0"	—	2"x2"x1/8"
85" TO 96"	3/8" ROD	4'-0"	—	2"x2"x3/16"
OVER 97"	3/8" ROD	4'-0"	—	2"x2"x1/4"

SPECIAL HANGERS SHALL BE PROVIDED FOR #10 GAUGE BLACK STEEL DUCTS (BOILER BREECHING AND KITCHEN EXHAUST) AND FOR SECTIONS OF DUCT CONTAINING COILS OR FANS.

DUCT SUPPORT N.T.S.

NOTES:

1. ALL DUCTWORK TO BE HUNG FROM BUILDING CONSTRUCTION NOT TO BE SUPPORTED FROM HUNG CEILING.
2. WHEN DUCT AREA EXCEEDS 8 SQ. FT. ANGLE STIFFENERS REQUIRED AROUND CIRCUMFERENCE EVERY 4'-0".
3. FOR DUCTS OVER 48" WIDE, HANGERS SHALL TURN UNDER DUCT AT LEAST 2" AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF DUCT.
4. FOR DUCTS WITH A CROSS-SECTIONAL AREA OF 4 SQ. FT. OR LESS, HANGERS SHALL BE NO MORE THAN 8 FT. APART FOR DUCT WITH A CROSS-SECTIONAL.AREA OF MORE THAN 4 SQ. FT. BUT NOT OVER 8 SQ. FT. HANGERS SHALL BE NOT MORE THAN 6 FT. APART, AND FOR DUCTS WITH A CROSS-SECTIONAL AREA OF MORE THAN 8 SQ.FT. HANGERS SHALL BE NOT MORE THAN 4 FT. APART. THE DISTANCES BETWEEN SHALL BE MEASURED LINEARLY ALONG THE DUCT.
5. VERTICAL DUCTS SHALL BE SECURELY SUPPORTED AT EACH FLOOR LEVEL BY CONTINUOUS LENGTHS OF STRUCTURAL ANGLES OF A SIZE AT LEAST EQUIVALENT TO THAT FOR STIFFENING. THE ANGLES SHALL BE FASTENED TO THE OPPOSITE SIDES OF THE DUCT AND SHALL EXTEND ACROSS THE OPENING AND BEAR UPON THE STRUCTURE OR SLAB ON BOTH SIDES OF THE OPENING.

ENERGY ANALYSIS

COMMERCIAL

INSTALL NEW EQUIPMENT.

CLIMATE ZONE 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE-PRESCRIBED VALUE AND CITATION
INSTALL NEW THROUGH-THE-WALL PACKAGED TERMINAL RAC-1.2 HAIER PTHH1501UAC (1.2 T)	3.1 COP	2.83 COP NYC ECC TABLE 503.2.3(3)
INSTALL NEW THROUGH-THE-WALL PACKAGED TERMINAL RAC-1.0 HAIER PTHH1201UAC (1.0 T)	3.2 COP	2.89 COP NYC ECC TABLE 503.2.3(3)
INSTALL NEW SPLIT SYSTEM AIR CONDITIONER HEAT PUMP CU-1 DAIKIN RXYMQ48PVJU (4 T)	9.1 HSPF	7.7 HSPF NYC ECC TABLE 503.2.3(2)
INSTALL NEW SINGLE PACKAGE AIR CONDITIONER AC-1 TRANE YCH120E3 (10 T)	12.5 EER	11.0 EER NYC ECC TABLE 503.2.3(2)
INSTALL NEW SINGLE PACKAGE AIR CONDITIONER AC-2 TRANE YCD211C3 (17.5 T)	10.6 EER	10.6 EER NYC ECC TABLE 503.2.3(2)
INSTALL NEW ELECTRIC WATER HEATER HW/H-1 A.O. SMITH ECT-80 SERIES 210 (6kW)	0.86% Et	0.86% Et NYC ECC TABLE 504.2

TABLE II - PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE - COMMERCIAL BUILDING

	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDART (SEE ECC CHAPTER 6) OR OTHER CRITERIA	ECC OR OTHER CITATION
IIB	MECHANICAL AND SERVICE WATER HEATING INSPECTIONS			
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	503.2
IIB4	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	AFTER INSTALLATION AND PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	503.2.4, 503.2.5.1, 503.3
IIB5	DUCT, PLENUM AND PIPING INSULATION AND SEALING	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILING AND WALLS	APPROVED CONSTRUCTION DOCUMENTS	503.2.7

LEGEND

- SUPPLY DIFFUSER
- EXHAUST / RETURN GRILL
- VOLUME DAMPER
- DUCTWORK WITH 1" ACOUSTICAL LINING
- DUCTWORK WITH THERMAL INSULATION (TYP.)
- T — THERMOSTAT
- FD — FIRE DAMPER WITH ACCESS DOOR
- R/A — RETURN AIR
- 150 CFM, 12x6 REG. — SUPPLY REGISTER
- M — MOTORIZED DAMPER
- T_R — THERMOSTAT REMOTE

NOISE CONTROL REQUIREMENTS:

ALL MECHANICAL EQUIPMENT IN A BUILDING IN ANY OCCUPANCY GROUP, WHEN LOCATED OUTSIDE OF THE BUILDING IN A YARD OF COURT OR ON A ROOF, OR WHERE THE EQUIPMENT OPENS TO THE EXTERIOR OF THE BUILDING, SHALL BE SUBJECT TO THE NOISE OUTPUT LIMITATIONS GIVEN IN TABLE 926.1 OF THE NEW YORK CITY MECHANICAL CODE.

T THERMOSTAT: HONEY WELL , ROBERT SHAW, MAPLE CHASE OR EQUAL
CHRONOTHERM PROGRAMMABLE ELECTRONIC THERMOSTAT (1 STAGE COOLING & HEATING)

MECHANICAL EQUIPMENT AND BUILDING SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2008 NEW YORK CITY MECHANICAL CODE, THE 2008 NEW YORK CITY FUEL GAS CODE.

THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY SUCH THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

WRITTENDIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFIC WORK SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

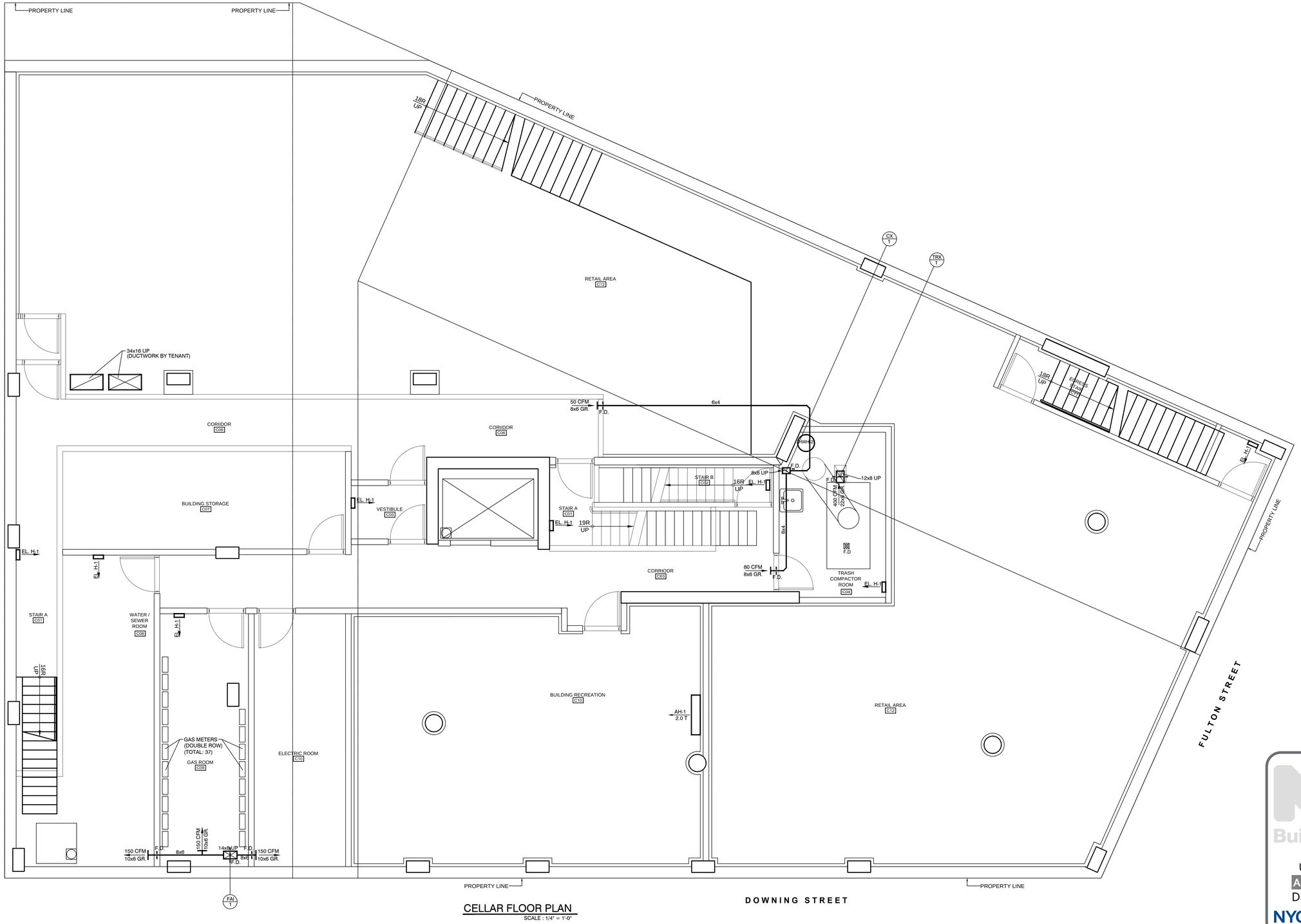
NO CHANGE IN USE, EGRESS OR OCCUPANCY UNDER THIS APPLICATION.

Clara Gomez

APPROVED
Office Directive 2 of 1975
AMENDED APPLICATION
Date: 07/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com STATE OF NEW YORK · BORIS LEVIN · 075295 · LICENSED PROFESSIONAL ENGINEER	1035 FULTON STREET Brooklyn, New York 11238	NOTES, SCHEDULES, DETAILS, LEGEND SCALE: AS SHOWN	1. 2. 3. 4. 5.		M 001.00 01 OF 08

DEPT OF BLDGS 320591739 Job Number
ES228286916 Scan Code



CELLAR FLOOR PLAN

SCALE : 1/4" = 1'-0"

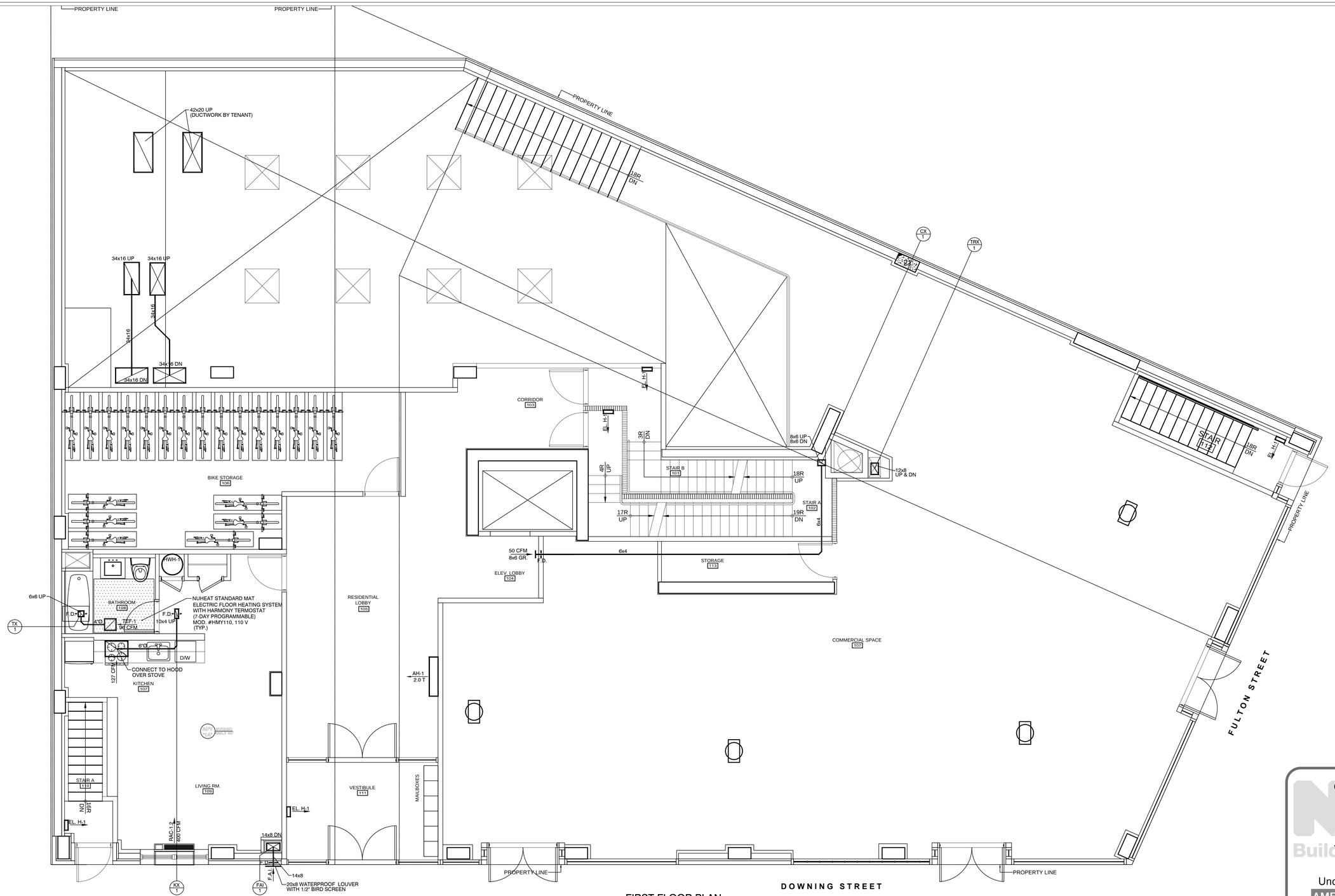
Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com STATE OF NEW YORK BORIS LEVIN 073392 LICENSED PROFESSIONAL ENGINEER	1035 FULTON STREET Brooklyn, New York 11238	CELLAR FLOOR PLAN SCALE: AS SHOWN	1. 2. 3. 4. 5.		M 002.00 02 OF 08

DEPT OF BLDGS 320591739 Job Number

ES110130718 Scan Code



FIRST FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

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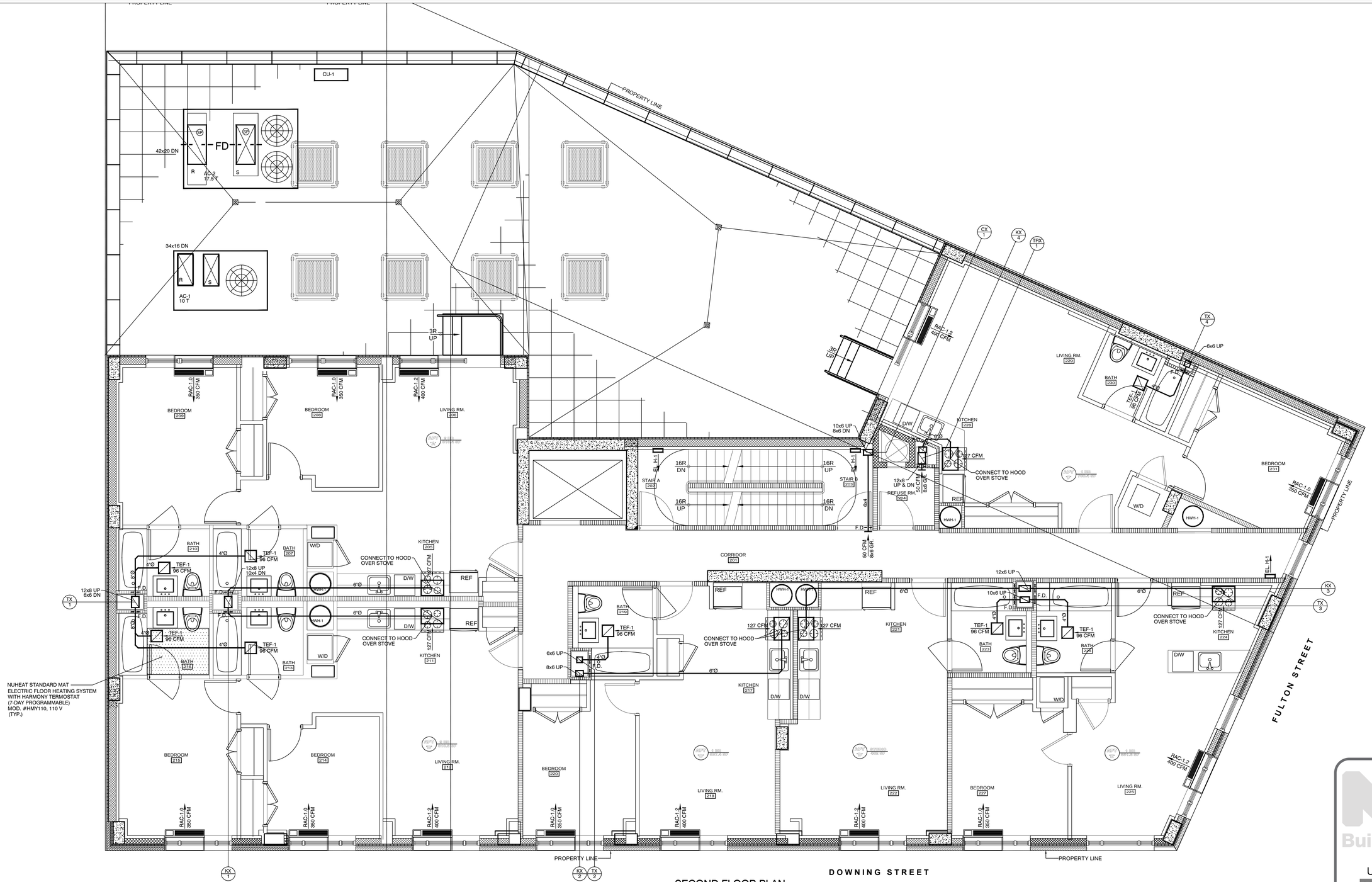
DEPT OF BLDGS 320591739 Job Number

ES020113012 Scan Code



SECOND FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

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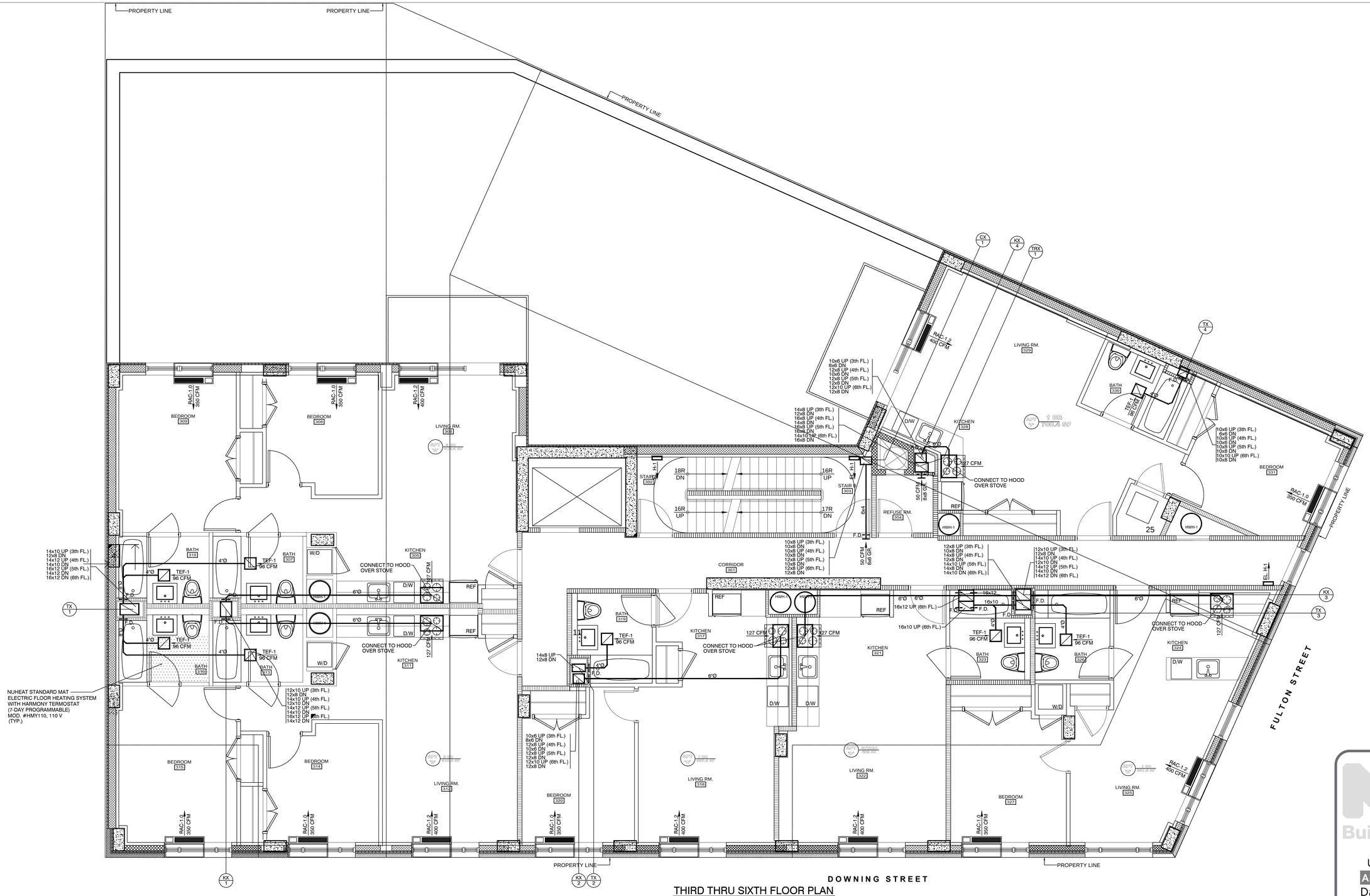
DEPT OF BLDGS 320591739 Job Number

ES194326147 Scan Code



THIRD THRU SIXTH FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

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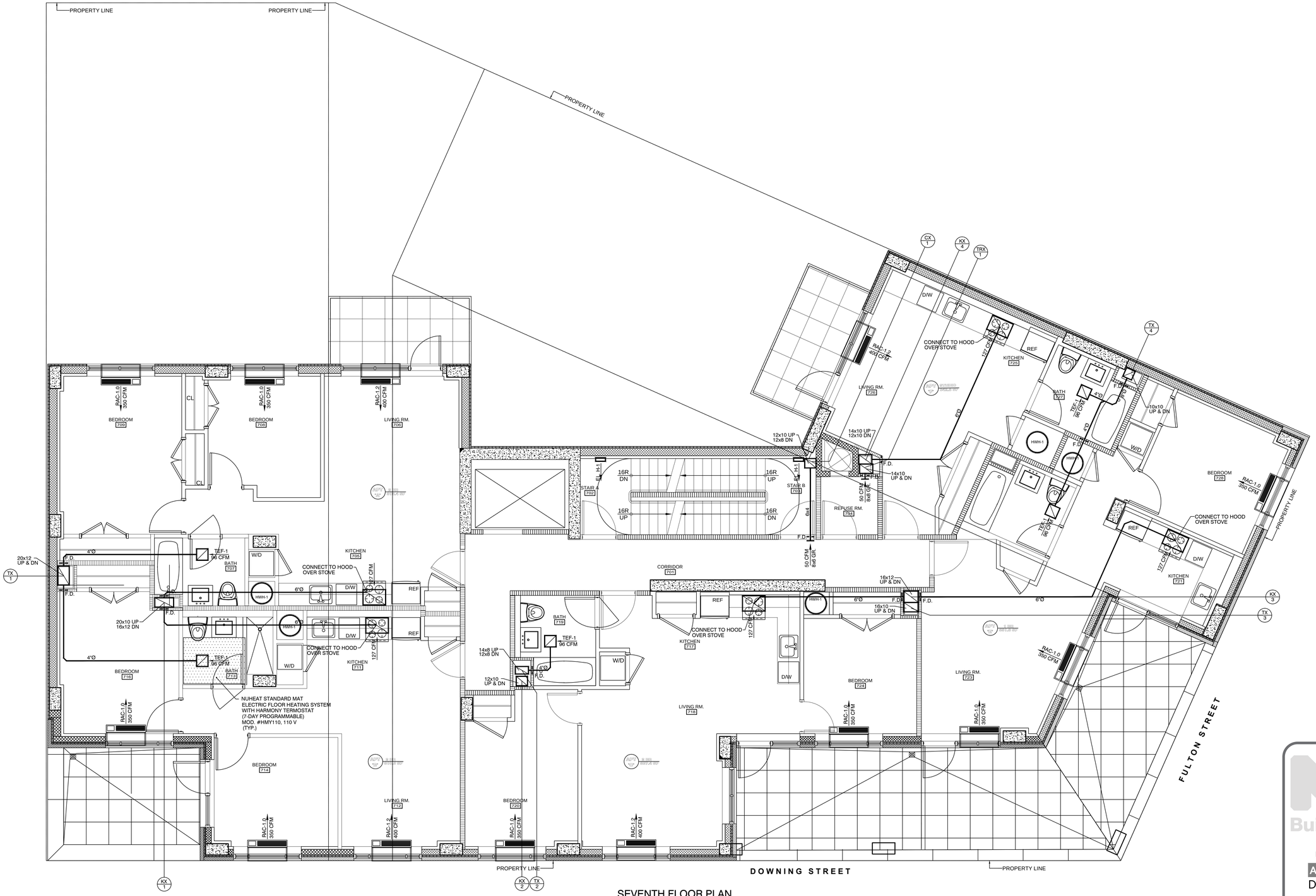
DEPT OF BLDGS 320591739 Job Number

ES788530973 Scan Code



SEVENTH FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
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DEPT OF BLDGS 320591739 Job Number

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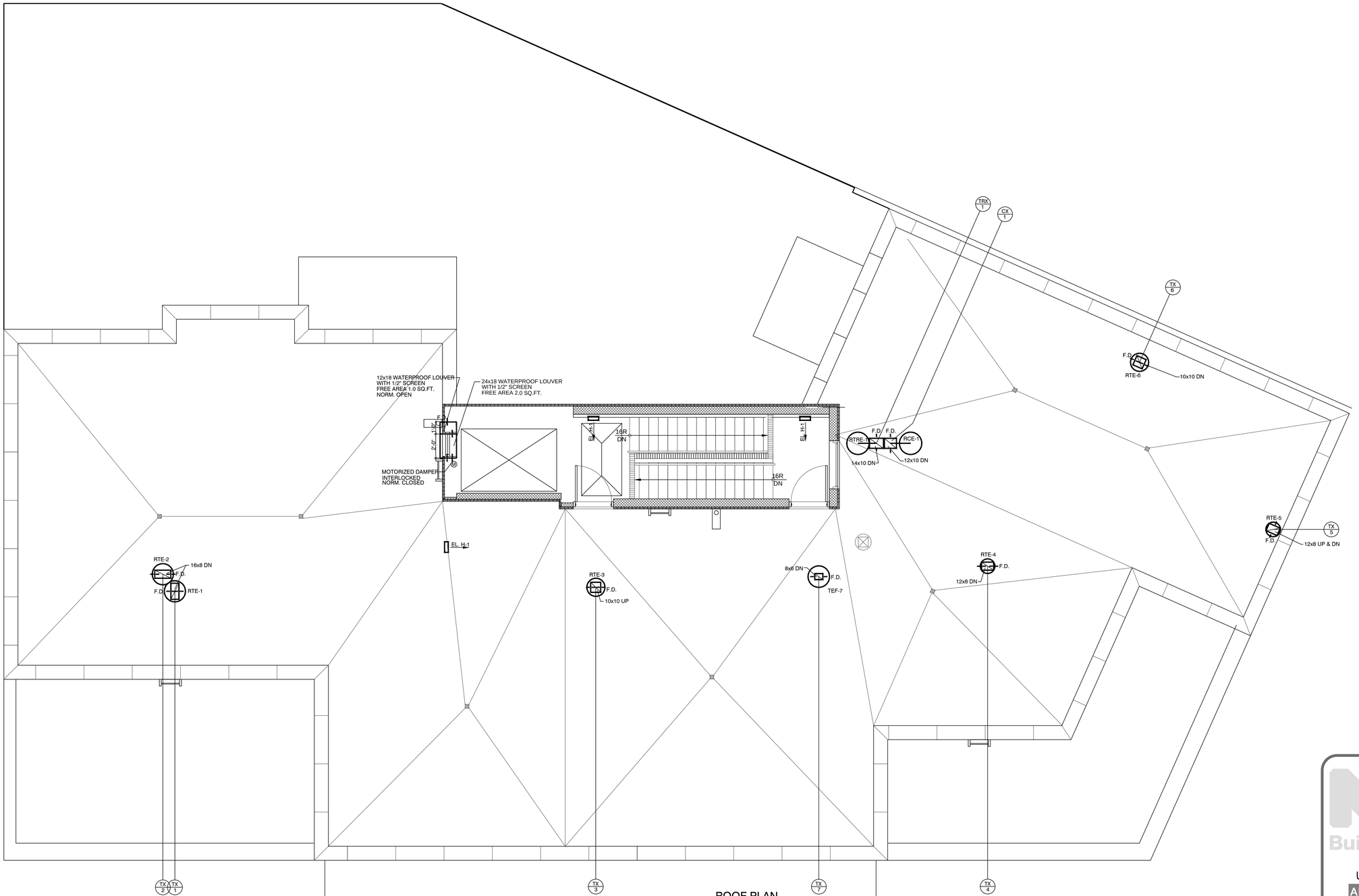

ROOF PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

NYC Buildings

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

OWNER / DEVELOPER:	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
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DEPT OF BLDGS 320591739 Job Number
ES832860483 Scan Code

FAN UNITS SCHEDULE (PENN BARRY)

CENTRIFUGAL BELT DRIVE EXHAUST FAN

N=	FAN #	TOTAL FANS	MOD.#	AIR FLOW (CFM)	STATIC PRESSURE	RPM	HP	OPER. AMPS	WEIGHT (LBS)	REMARKS
1	RTRE-1	1	DX08B	787	0.5"	1390	1/4	3.2	35	RECOMMENDED SPEED CONTROL
2	RCE-1	1	DX08B	514	0.5"	1150	1/4	3.2	35	RECOMMENDED SPEED CONTROL

FAN UNITS SCHEDULE (PANASONIC)

CEILING MOUNTED EXHAUST FAN (WHISPER GREEN)

N=	FAN #	TOTAL FANS	MOD.#	AIR FLOW (CFM)	STATIC PRESSURE	RPM	VOLT	WATT	CURRENT AMPS	WEIGHT LBS.
1	TEF-1	46	FV-11VF1	96	0.25"	1196	120	30	0.25	11.5

TURBINE VENTILATOR SCHEDULE

AIR VENT INTERNALLY BRACED TURBINE

N=	FAN #	MOD.#	CFM 4 MI. WIND	NECK DIAMETER
1	RTE-1	4C850	1700	20"
2	RTE-2	4C850	531	12"
3	RTE-3	4C850	950	16"
4	RTE-4	4C850	531	12"
5	RKE-1	4C850	1200	18"
6	RKE-2	4C850	531	12"
7	RKE-3	4C850	1200	18"
8	RKE-4	4C850	700	14"

AIR CONDITIONER UNITS SCHEDULE (TRANE)

N=	A/C #	A/C UNIT TYPE	MOD.#	COOLING CAPACITY TON (MBH)	HEATING INPUT (kW)	HEATING OUTPUT (MBH)	EER (SEER)	UNIT SUPPLY VOLTAGE	MIN. CIRCUIT AMPACITY (A)	MAX. FUSE SIZE (A)	EVAP. FAN (HP)	WEIGHT (LBS)	MEA #
1	AC-1	SINGLE PACKAGE AIR CONDITIONER	YHC120E3	10.0 (119)	250	200	12.5 EER	208/230-3-60	50.3	60	4.9	1563	98-90-E Vol. IV
1	AC-2	SINGLE PACKAGE AIR CONDITIONER	YCD211C3	17.5 (220)	350	284	10.6 EER	208/230-3-60	91	110	10.0	2547	

ELECTRIC HEATER (Qmark)

N=	HEATER #	TOTAL HEATERS	HEATER TYPE	MOD.#	STOCK #	HEATING CAPACITY (BTU/Hr)	UNIT SUPPLY VOLTAGE	AMPERAGE	WATTS	WEIGHT (LBS)
1	EH-1	34	BUILT-IN WALL HEATER	SED2024	5ZK70	6,824	240/208	8.4	2000	10.1

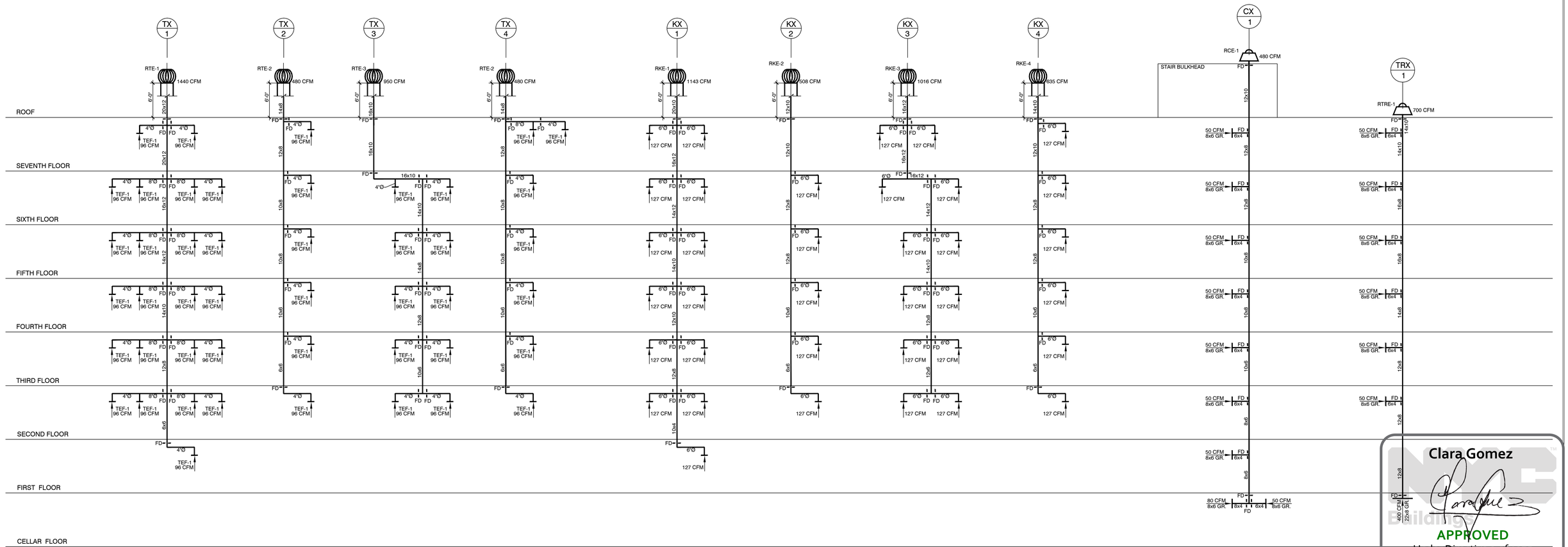
ROOM AIR CONDITIONER UNITS SCHEDULE (HAIER)

N=	A/C #	A/C UNIT TYPE	MOD.#	TOTAL UNITS	COOLING CAPACITY TON (MBH)	HEATING CAPACITY MBH	AIR FLOW (CFM)	COP	UNIT SUPPLY VOLTAGE	AMPS	VOLTAGE RANGE MIN/MAX	WEIGHT (LBS)
1	RAC-1.2	PACKAGED TERMINAL AIR CONDITIONER AND HEAT PUMPS	PTHH1501UAC	35	1.2 (13.3/13.6)	12.5/13.0	365/400	3.1	208/230-1-60	6.8/6.2	197/253	138
2	RAC-1.0		PTHH1201UAC	44	1.0 (11.8/12.0)	10.6/10.8	320/350	3.2	208/230-1-60	5.3/4.9	197/253	128

AIR CONDITIONER UNITS SCHEDULE (DAIKIN)

VRV III-S SPLIT-TYPE AIR CONDITIONER & HEAT PUMP

N=	A/C #	A/C UNIT TYPE	MOD.#	TOTAL UNITS	COOLING CAPACITY TON (MBH)	HEATING CAPACITY MBH	AIR FLOW (CFM)	EER (SEER)	UNIT SUPPLY VOLTAGE	MIN. CIRCUIT AMPACITY (AMP)	MAX. FUZE SIZE (AMP)	WEIGHT (LBS)	MEA #	REMARKS
1	AH-1	WALL MOUNTED INDOOR UNIT	FXAQ24PVJU	2	2.0 (24.0)	26.5	635		208/230-1-60	---	---	31		WITH BRC1E71 PROGRAMMABLE THERMOSTAT (1 PER EACH INDOR UNIT)
	CU-1	OUTDOOR UNIT	RXYMQ48PVJU	1	4.0 (47.5)	52.5	—	15.1 SEER	208/230-1-60	27	30	283	102-04-E Vol. 5	



TOILET EXHAUST RISER DIAGRAM
N.T.S.

KITCHEN EXHAUST RISER DIAGRAM
N.T.S.

CORRIDOR EXHAUST RISER DIAGRAM
N.T.S.

TRASH COMPACTOR EXHAUST RISER DIAGRAM
N.T.S.

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DEPT OF BLDGS 420591739 Job Number
ES871295595 Scan Code

PLUMBING SPECIFICATION

1. GENERAL CONDITIONS

THE PROVISIONS OF DIVISION 1 SHALL APPLY TO THE WORK OF THIS SECTION. INSTALLATION OF MATERIALS USED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH STANDARDS UNDER WHICH THE MATERIALS ARE APPROVED. ALL PLUMBING PIPING AND MATERIALS SHALL COMPLY WITH THE REFERENCED STANDARDS, SPECIFICATIONS AND PERFORMANCE CRITERIA OF THIS CODE AND SHALL BE IDENTIFIED IN ACCORDANCE WITH SECTION 303.1M PLUMBING PRODUCTS AND MATERIALS SHALL EUTHER BE TESTED BY AND APPROVED THIRD-PARTY TESTING AGENCY OR CERTIFIED APPROVED THIRD-PARTY CERTIFICATION AGENCY.

2. GENERAL

A. CONTRACTOR SHALL PROVIDE PROOF OF ADEQUATE INSURANCE TO HOLD OWNER, ARCHITECT, AND ENGINEER HARMLESS FOR ANY LABILITY CLAIMS ARISING FROM PERFORMANCE OF HIS WORK.

B. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT UNNECESSARY DAMAGE TO BUILDING STRUCTURE AND PROTECT BUILDING OCCUPANTS.

C. CONTRACTOR SHALL VISIT JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS RELATIVE TO THE INSTALLATION OF THE WORK. NO ALLOWANCE WILL BE MADE FOR HIS FAILURE TO DO SO.

D. CONTRACTOR SHALL REVIEW THE PLANS OF OTHER TRADES AND COORDINATE HIS WORK TO PROVIDE FOR ADEQUATE SPACE AND CLEARANCES AS THE WORK PROGRESSES.

E. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH RULES AND REGULATIONS OF NEW YORK CITY 2008 BUILDING CODE, BASE BUILDING STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.

F. CONTRACTOR SHALL PAY ALL FEES, OBTAIN ALL NECESSARY PERMITS, AND COORDINATE UTILITY WORK.

G. ALL PIPING SHALL BE CONCEALED WITHIN THE HUNG CEILINGS OR WALLS. NO EXPOSED PIPING WILL BE ALLOWED.

H. ROUGHING AND FINAL CONNECTIONS TO EQUIPMENT WHICH IS FURNISHED BY OTHERS SHALL BE INSTALLED BY THIS CONTRACTOR.

I. FOR EXACT LOCATION OF PARTITIONS, CEILING HEIGHTS, SOFFITS, ETC., REFER TO THE ARCHITECTURAL DRAWINGS.

J. WASTE LINES INSTALLED AT CEILING OF SPACE BELOW THE FLOOR SHALL BE RUN TIGHT TO SLAB OR BOTTOM OF BEAMS.

K. THE CONTRACTOR SHALL RUN ALL PIPING AS REQUIRED TO PERFORM ALL WORK SHOW IN THE DRAWINGS AND COORDINATE LOCATIONS OF EXISTING DRAINAGE, WATER SUPPLY, ETC. AS REQUIRED TO COMPLETE ALL PLUMBING WORK SHOWN.

L. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH THE WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.

3. SHOP DRAWING SUBMISSIONS

A. SIX (6) COPIES OF FIXTURES MANUFACTURER'S DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PURCHASE. REFER TO PROJECT MANUAL FOR SUBMISSION REQUIREMENTS

4. SCOPE OF WORK

A. FURNISH AND INSTALL ALL LABOR AND MATERIALS FOR INSTALLATION OF:
1) DRAINAGE AND VENT PIPING
2) HOT AND COLD WATER PIPING
3) ROUGHING AND FINAL CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS
4) FURNISH AND INSTALL NEW PLUMBING FIXTURES.

5. PIPE INSTALLATION

A. ALL PIPING SHALL BE INSTALLED IN AN APPROVED MANNER.

B. DRAIN LINES SHALL HAVE REQUIRED UNIFORM SLOPE OF 1/4" PER FOOT MINIMUM. 1/8" PER FOOT WILL BE PERMITTED ON MAIN DRAIN LINES WHERE REQUIRED TO MAINTAIN CLEARANCES. ALL PIPING SHALL BE AMPLY SUPPORTED TO PREVENT ANY SAGGING OR BOWING.

C. WATER PIPING SHALL BE RUN PARALLEL TO BUILDING WALLS, AND SHALL BE AMPLY SUPPORTED. PROVIDE STOP VALVES AT ALL EQUIPMENT AND FIXTURES. PROVIDE SECTION SHUTOFF VALVES AT CONNECTIONS TO EXISTING PIPING.

D. CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND ROUGH PATCHING FOR THE ADMISSION OF HIS WORK.

6. MATERIALS

A. ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS.

B. PIPING: WHERE POSSIBLE PIPE MATERIALS SHALL MATCH EXISTING PIPE MATERIALS OR SHALL BE AS FOLLOWS:

SOIL, WASTE, OR VENT PIPING - CAST IRON "NO-HUB" PIPE AND FITTING (CISPI 301) ABOVE GROUND.

WATER PIPING - TYPE "L" COPPER TUBING "HARD TEMPER" WITH CAST BRASS SOLDER FITTINGS. NIBCO OR APPROVED EQUAL.

C. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH SCREWED MALLEABLE IRON FITTINGS.

D. VALVES - VALVES ON WATER PIPING SHALL BE ALL BRONZE AS MANUFACTURED BY MILWAUKEE VALVE COMPANY JENKINS, OR NIBCO, VALVES ON GAS PIPING SHALL BE WALWORTH LUBRICATED PLUG VALVES.

E. ALL HORIZONTAL STORM AND WASTE PIPING CONCEALED WITHIN HUNG CEILINGS OR WALLS AND ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH CERTAINTEED OR APPROVED EQUAL 1/2" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET (ASj).

7. PLUMBING FIXTURES

ALL PLUMBING FIXTURES SHALL BE FIRST QUALITY UNBLEMISHED AND SHALL INCLUDE ALL PERTINENT OPERATION DEVICES. COLORS SHALL BE AS SELECTED BY ARCHITECT. ALL FIXTURES AMERICAN STANDARD UNLESS OTHERWISE \INDICATED.

8. CONDENSATE DISPOSALL

CONDENSATE DISPOSAL FROM ALL COOLING COILS AND EVAPORATORS SHALL BE CONVEYED FROM THE DRAIN PAN OUTLET TO AN APPROVED PLACE OF DISPOSAL. CONDENSATE SHALL NOT DISCHARGE INTO A STREET. ALLEY OR OTHER AREAS SO NOT TO CAUSE NUISANCE.

9. TESTING

A. ALL NEW INSTALLED SANITARY, HOT AND COLD WATER PIPING SHALL BE THOROUGHLY TESTED IN ACCORDANCE WITH N.Y. CITY 2008 BUILDING CODE.

WATER RISER DIAGRAM NOTES

1. INSTALLATION SHALL BE INSTALLED IN STRICT CONFORMITY WITH ALL REQUIREMENTS OF THE NEW YORK CITY 2008 PLUMBING CODE AND ALL PERTINENT REFERENCE STANDARDS GOVERNING WATER WORK.

2. WATER INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE LOCAL AUTHORITIES REQUIREMENTS.

3. ALL WATER SUPPLIES SHALL BE OVER THE RIM SUPPLY OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM BREAKERS INCLUDING ALL WATER CLOSET FLUSH VALVES AND HOSE BIB CONNECTIONS.

4. ALL WATER PIPING SHALL BE SIZED TO PRODUCE VELOCITIES NOT IN EXCESS OF 8' PER SECOND AND SHALL HAVE A MINIMUM OF 8 P.S.I. AT EVERY FIXTURE.

5. EXPANSION LOOPS AND ANCHORS SHALL BE PROVIDED FOR EXPANSION IN HOT RECIRCULATING PIPING LINES.

6. ALL CONNECTIONS TO EQUIPMENT OF DISSIMILAR MATERIAL SHALL BE PROVIDED WITH DIELECTRIC UNIONS.

7. PROVIDE VALVES ON ALL BRANCH LINES TO EACH FIXTURE AND EQUIPMENT INCLUDING BRANCHES FROM MAINS AND FROM RISER. ALL RISER AND MAINS SHALL BE PROVIDED WITH VALVES.

8. WHERE BRANCH SUPPLIES ARE TRAPPED AT LOW POINTS, AND WHERE BRANCH OR MAINS SUPPLY FIXTURES OR EQUIPMENT LOCATED HIGHER THAN SUPPLY MAIN, PROVIDE DRAIN BIBS ON LINE.

9. FIXTURES PROVIDED BY G.C. ARE TO BE INSTALLED AND SET BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL TRAPS, TRIM NOT PROVIDED BY THE G,C, AND SHALL CONNECT ALL FIXTURES, EQUIPMENT AND MAKE FINAL CONNECTIONS.

10. THIS CONTRACTOR SHALL CONNECT AND PROVIDE ALL NECESSARY SERVICES TO ALL FIXTURES AND EQUIPMENT INDICATED ON THE PLUMBING AND ARCHITECTURAL DRAWINGS.

11. PLUMBING CONTRACTOR TO COORDINATE LAYOUT WITH THE KITCHEN EQUIPMENT SUPPLIER.

12. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND ONE OF THE STANDARDS LISTED IN TABLE 605.3 OF 2008 NYC PLUMBING CODE.

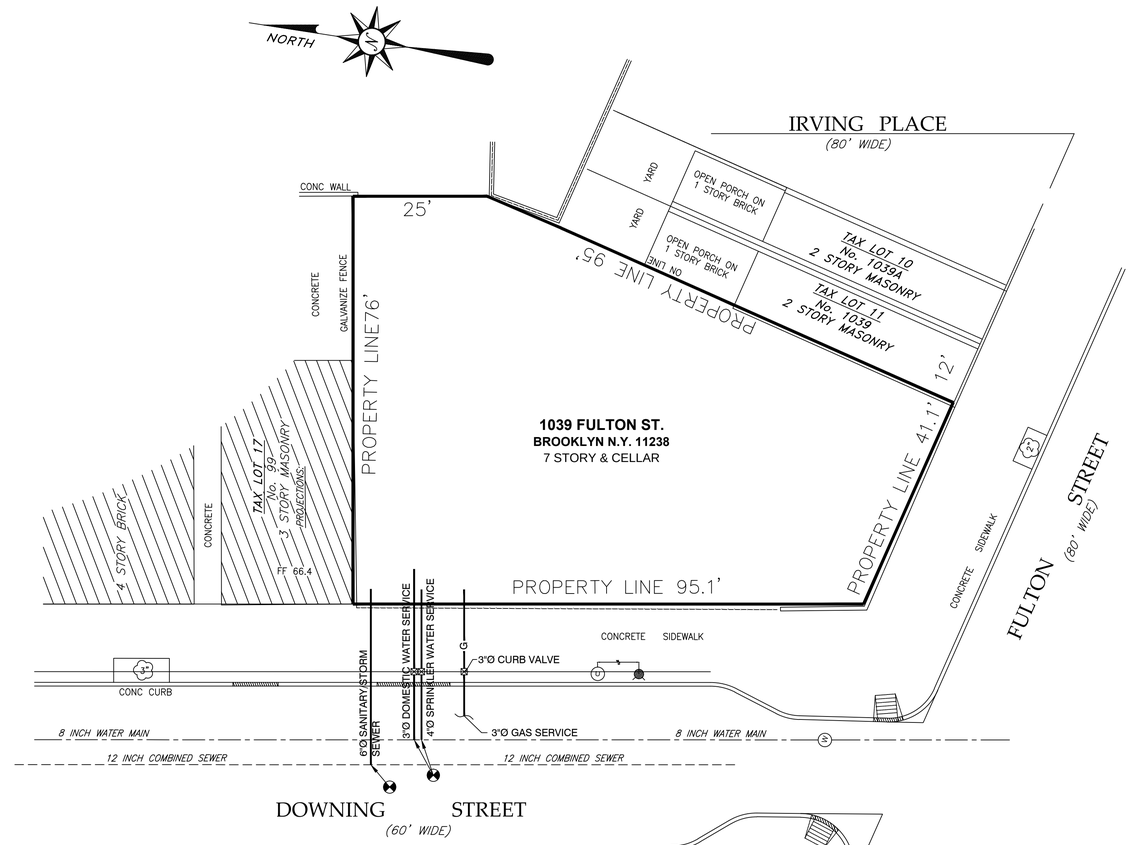
13. WATER DISTRIBUTION PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4 OF 2008 NYC PLUMBING CODE.

FIXTURE CONNECTION SCHEDULE

	TYPE OF FIXTURE	DRAIN	VENT	C.W.	H.W.
W.C.	WATER CLOSET (FLUSH)	4	2	1	-
W.C.	WATER CLOSET (TANK)	4	2	1/2	-
LAV.	LAVATORY	1 1/2	1 1/2	1/2	1/2
S.	SINK	2	1 1/2	1/2	1/2
SH.	SHOWER	1 1/2	1 1/2	1/2	1/2
TUB.	BATHTUB	3	1 1/2	1/2	1/2
F.D.	FLOOR DRAIN	3	2	-	-

LEGEND

	SANITARY PIPING
	VENT PIPING
ST	STORM-SEWER
	COLD WATER PIPING
	HOT WATER PIPING
	RECIRCULATION WATER LINE
	PIPE UP
	PIPE DN
N	CHECK VALVE
	SHUT-OFF VALVE
	AUTOMATIC AIR VENT
H.B.	C.W. HOSE BIB
C.O.	CLEAN OUT DRAIN PIPING
F.D.	FLOOR DRAIN
R.D.	ROOF DRAIN
A.D.	AREA DRAIN
F.A.I.	FRESH AIR INTAKE
I.W.	INDIRECT WASTE
	VACUUM BREAKER
	PIPING WITH THERMAL INSULATION
	CONNECTION POINT (EXISTING/NEW)



PLOT PLAN

N.T.S.

BLOCK: 1992
LOT: 13

ZONE: R7A
MAP: 16c

THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

WRITTENDIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

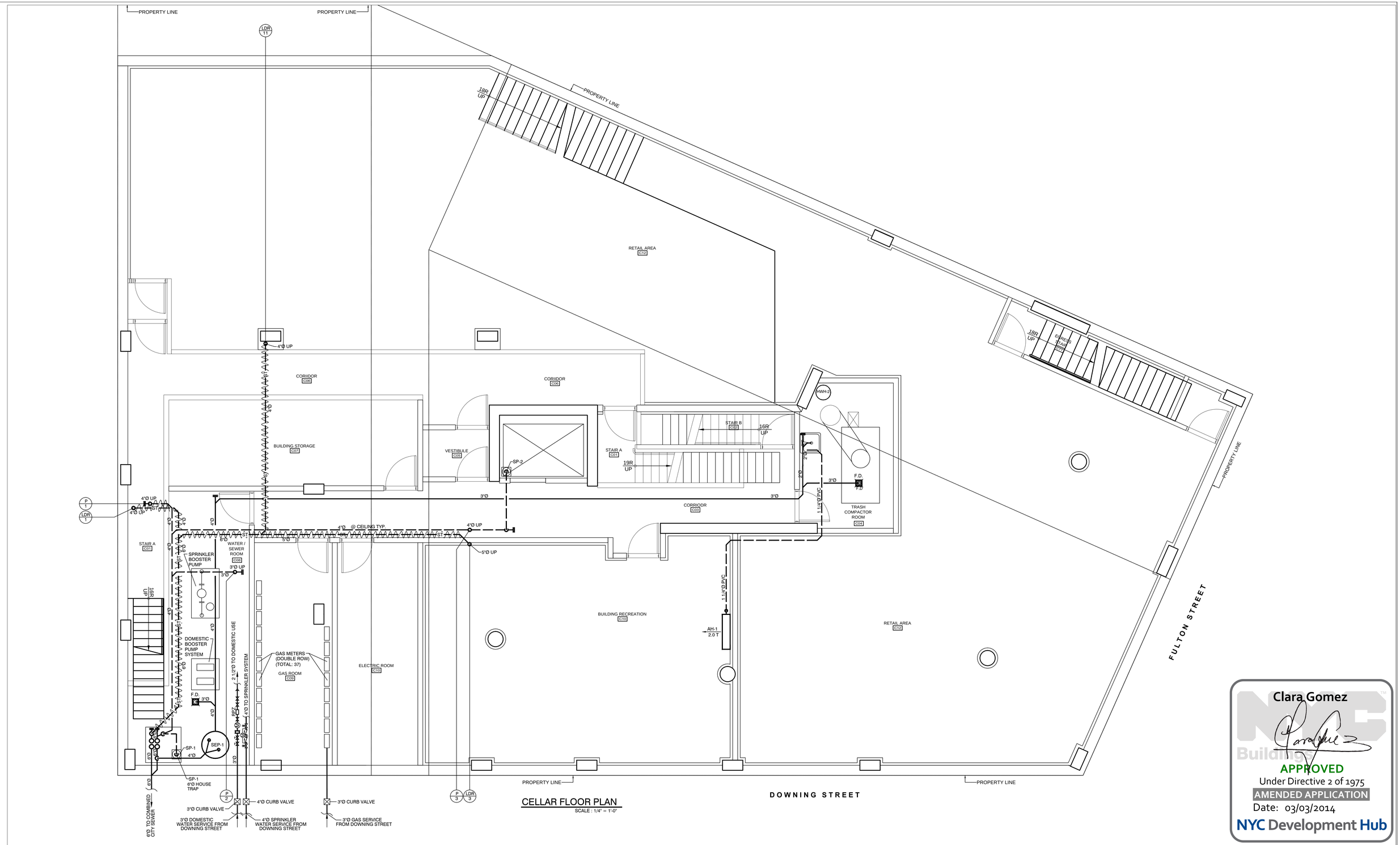
NO CHANGE IN USE, EGRESS OR OCCUPANCY UNDER THIS APPLICATION.

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com STATE OF NEW YORK BORIS LEVIN 073396 LICENSED PROFESSIONAL ENGINEER	1035 FULTON STREET Brooklyn, New York 11238	PLOT PLAN, NOTES, SCHEDULES, LEGEND, DETAILS SCALE: AS SHOWN	1. 2. 3. 4. 5.		P 001.00 01 OF 11

DEPT OF BLDGS 320591739 Job Number

ES451531339 Scan Code



CELLAR FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

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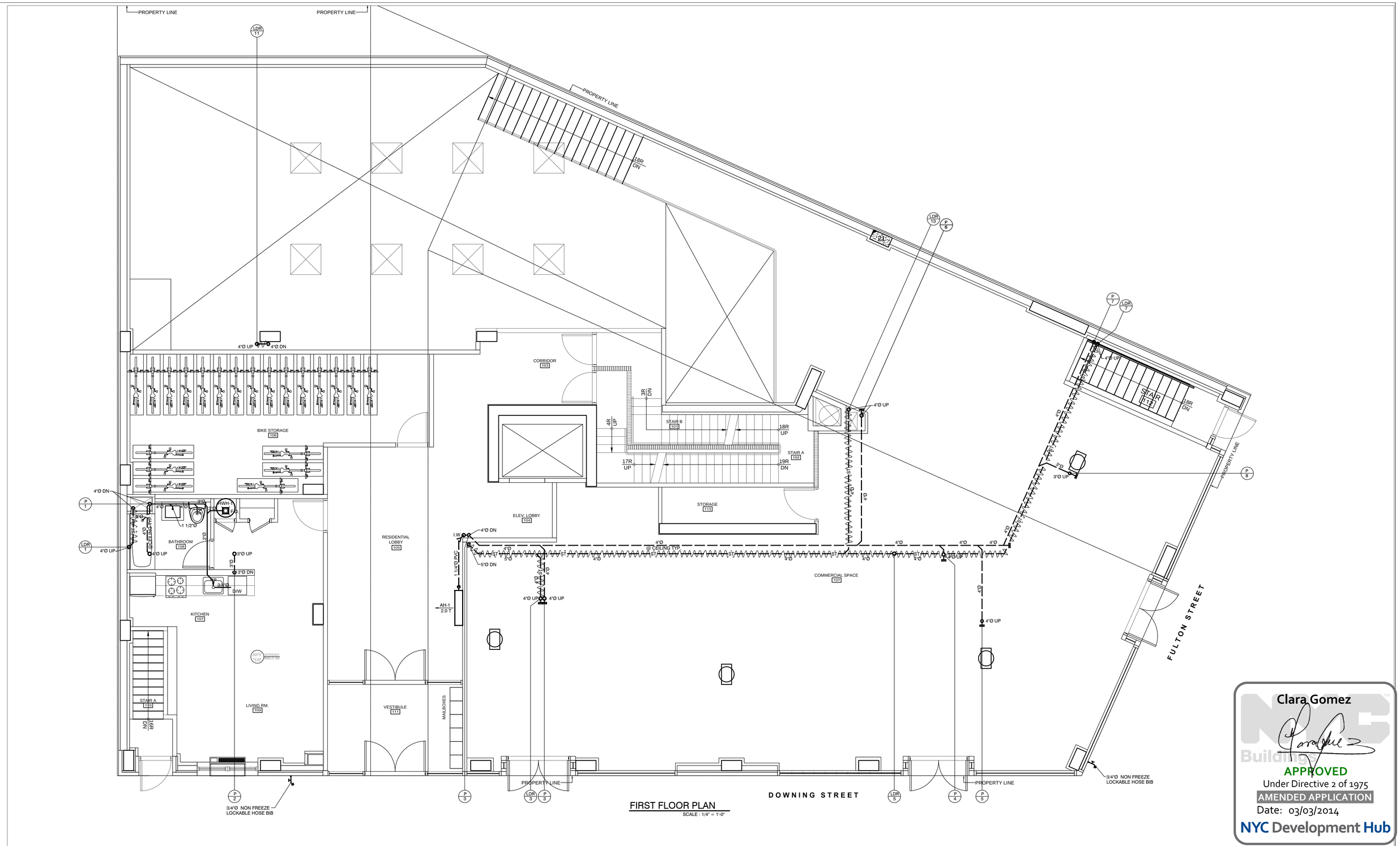
DEPT OF BLDGS 420591739 Job Number

ES303263386 Scan Code



FIRST FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

NYC Buildings

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

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DEPT OF BLDGS 320591739 Job Number

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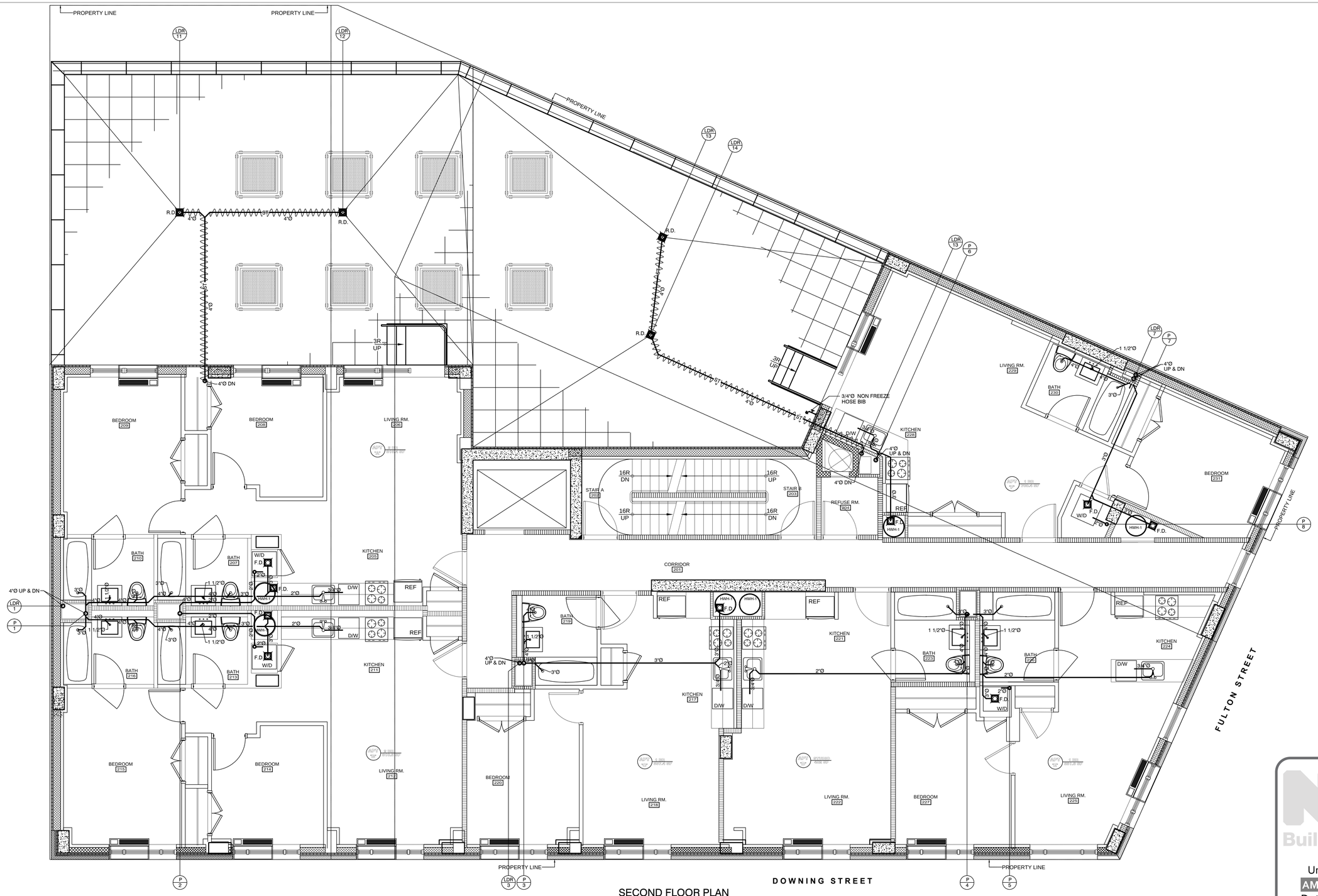

SECOND FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

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DEPT OF BLDGS 420591739 Job Number

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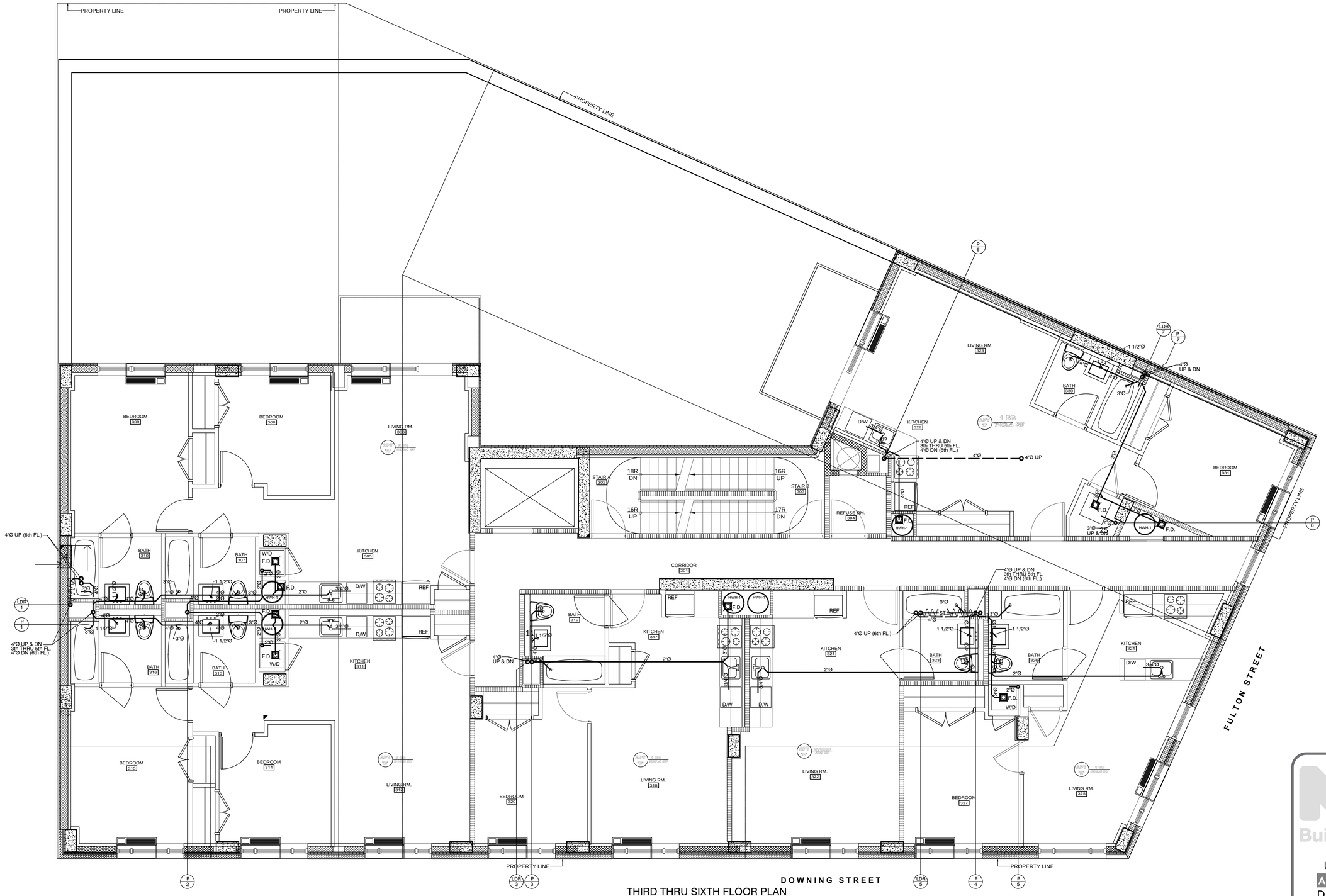

THIRD THRU SIXTH FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

NYC Buildings

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

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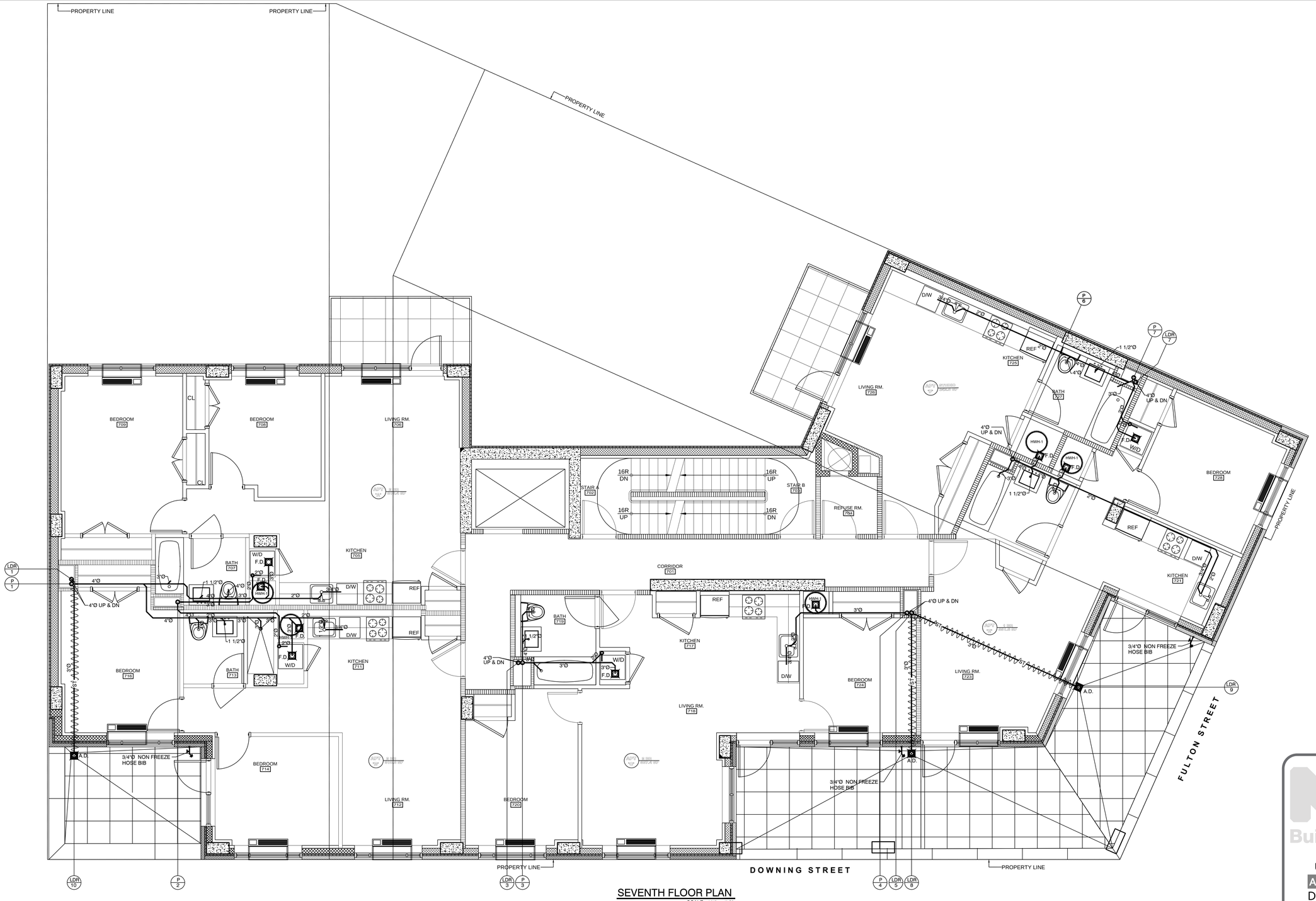
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com	1035 FULTON STREET Brooklyn, New York 11238	THIRD THRU SIXTH FLOOR PLAN SCALE: AS SHOWN	1. 2. 3. 4. 5.		P 005.00 05 OF 11

STATE OF NEW YORK · BORIS LEVIN · 073196 · LICENSED PROFESSIONAL ENGINEER

DEPT OF BLDGS 320591739 Job Number

ES708474149 Scan Code



SEVENTH FLOOR PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

NYC Building

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

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FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com	1035 FULTON STREET Brooklyn, New York 11238	SEVENTH FLOOR PLAN SCALE: AS SHOWN	1. 2. 3. 4. 5.		P 006.00 06 OF 11

DEPT OF BLDGS 320591739 Job Number

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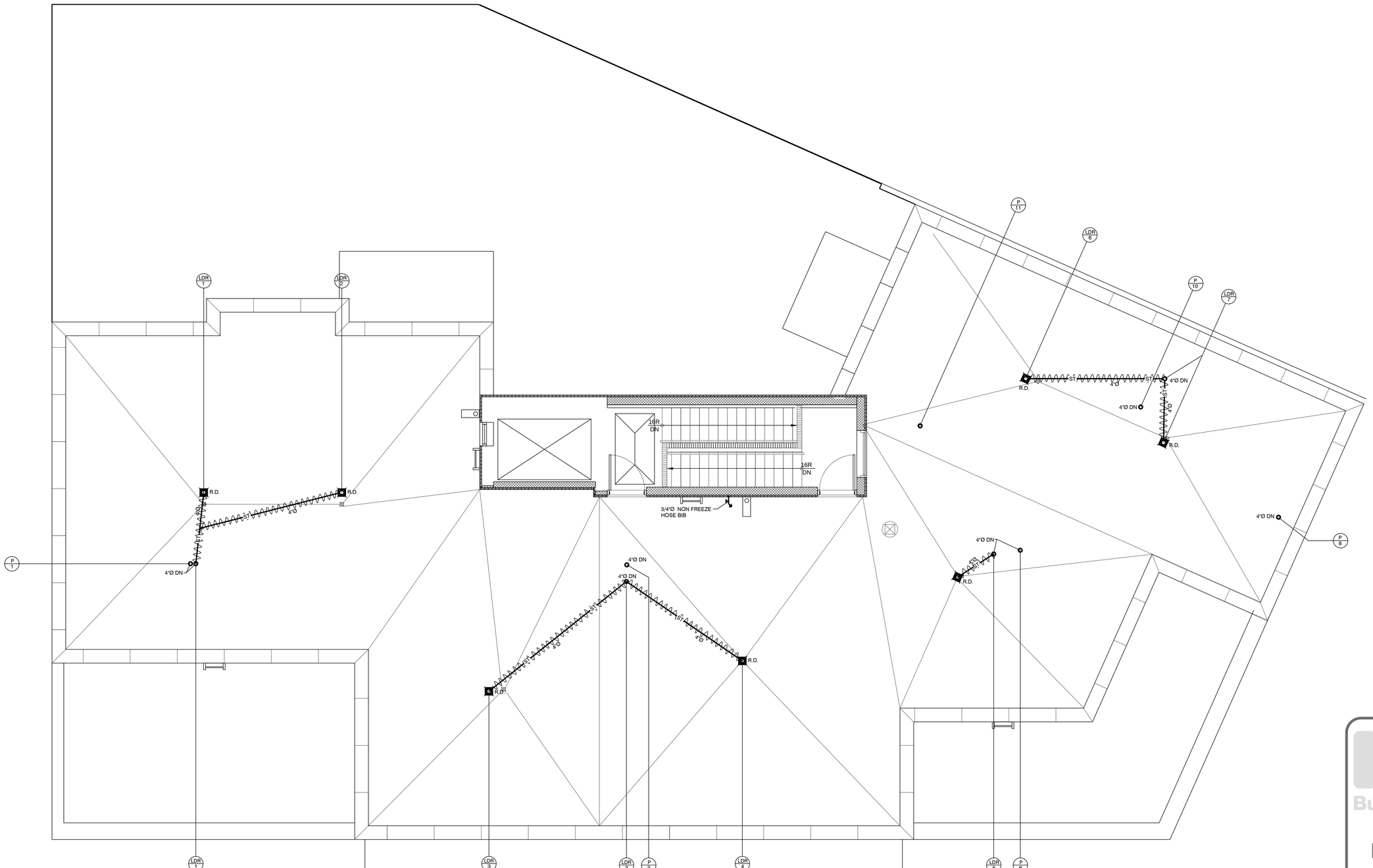

ROOF PLAN

SCALE : 1/4" = 1'-0"

Clara Gomez

APPROVED

Under Directive 2 of 1975

AMENDED APPLICATION

Date: 03/03/2014

NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
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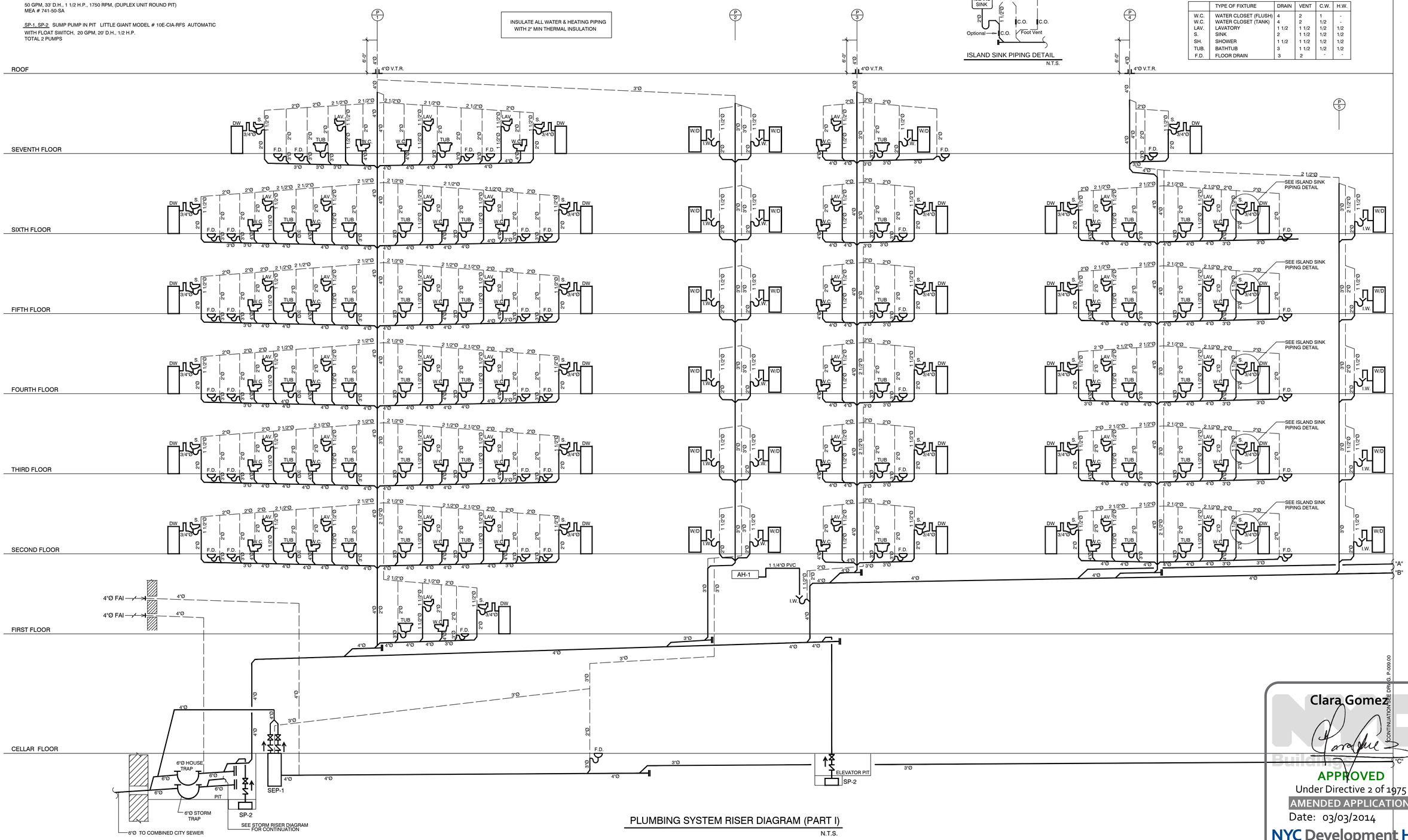
DEPT OF BLDGS 320591739 Job Number

ES963331723 Scan Code

SEP-1 FEDERAL PUMP SEWAGE PUMP MODEL # VSA-4F-1 1/2-4,
50 GPM, 33' D.H., 1 1/2 H.P., 1750 RPM, (DUPLEX UNIT ROUND PIT)
MEA # 741-50-SA

SP-1, SP-2 SUMP PUMP IN PIT LITTLE GIANT MODEL # 10E-CIA-RFS AUTOMATIC
WITH FLOAT SWITCH, 20 GPM, 20' D.H., 1/2 H.P.
TOTAL 2 PUMPS

INSULATE ALL WATER & HEATING PIPING
WITH 2" MIN THERMAL INSULATION



ISLAND SINK PIPING DETAIL
N.T.S.

FIXTURE CONNECTION SCHEDULE

	TYPE OF FIXTURE	DRAIN	VENT	C.W.	H.W.
W.C.	WATER CLOSET (FLUSH)	4	2	1	-
W.C.	WATER CLOSET (TANK)	4	2	1/2	-
LAV.	LAVATORY	1 1/2	1 1/2	1/2	1/2
S.	SINK	2	1 1/2	1/2	1/2
SH.	SHOWER	1 1/2	1 1/2	1/2	1/2
TUB.	BATHTUB	3	1 1/2	1/2	1/2
F.D.	FLOOR DRAIN	3	2	-	-

PLUMBING SYSTEM RISER DIAGRAM (PART I)
N.T.S.

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
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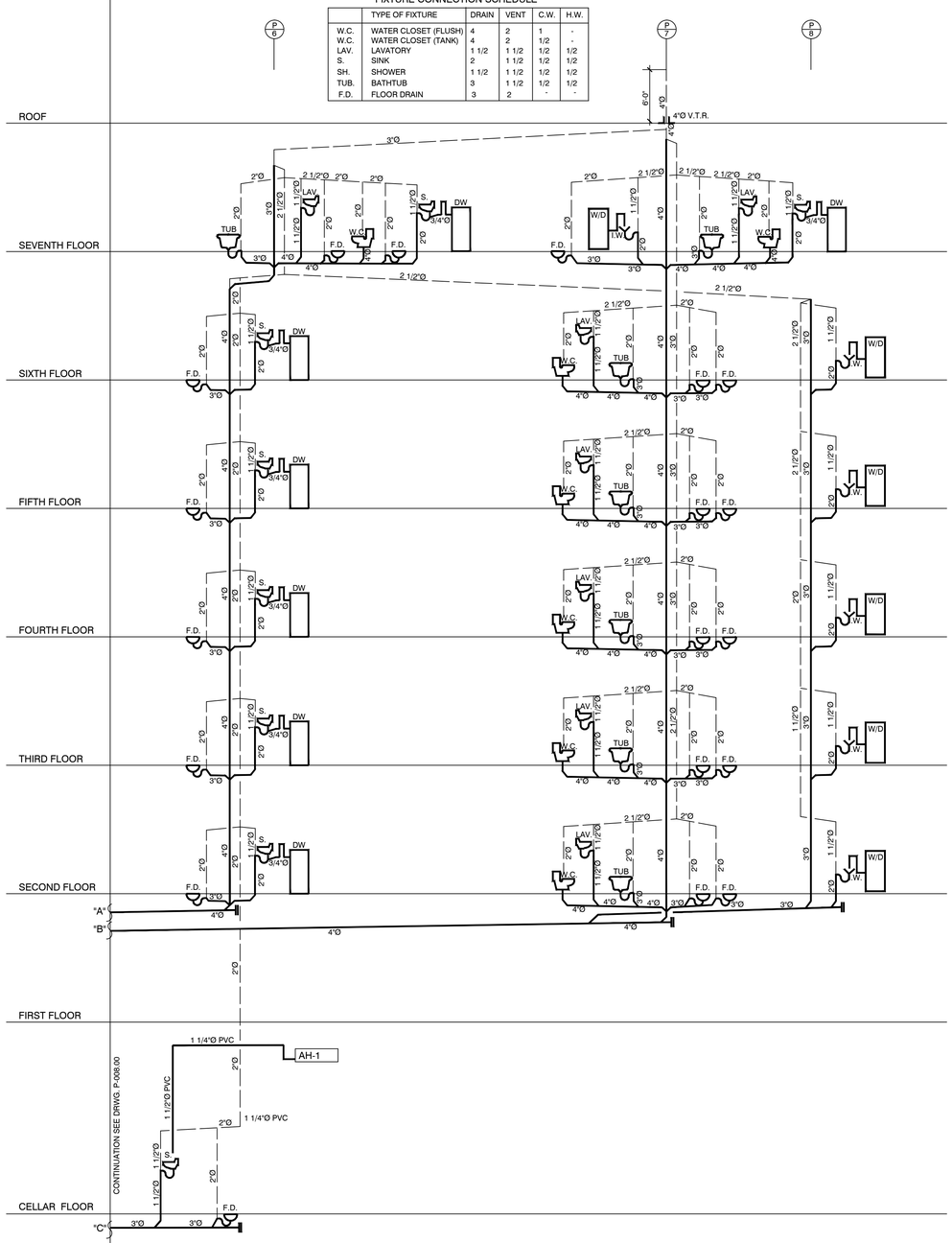
DEPT OF BLDGS 320591739 Job Number
ES034138645 Scan Code

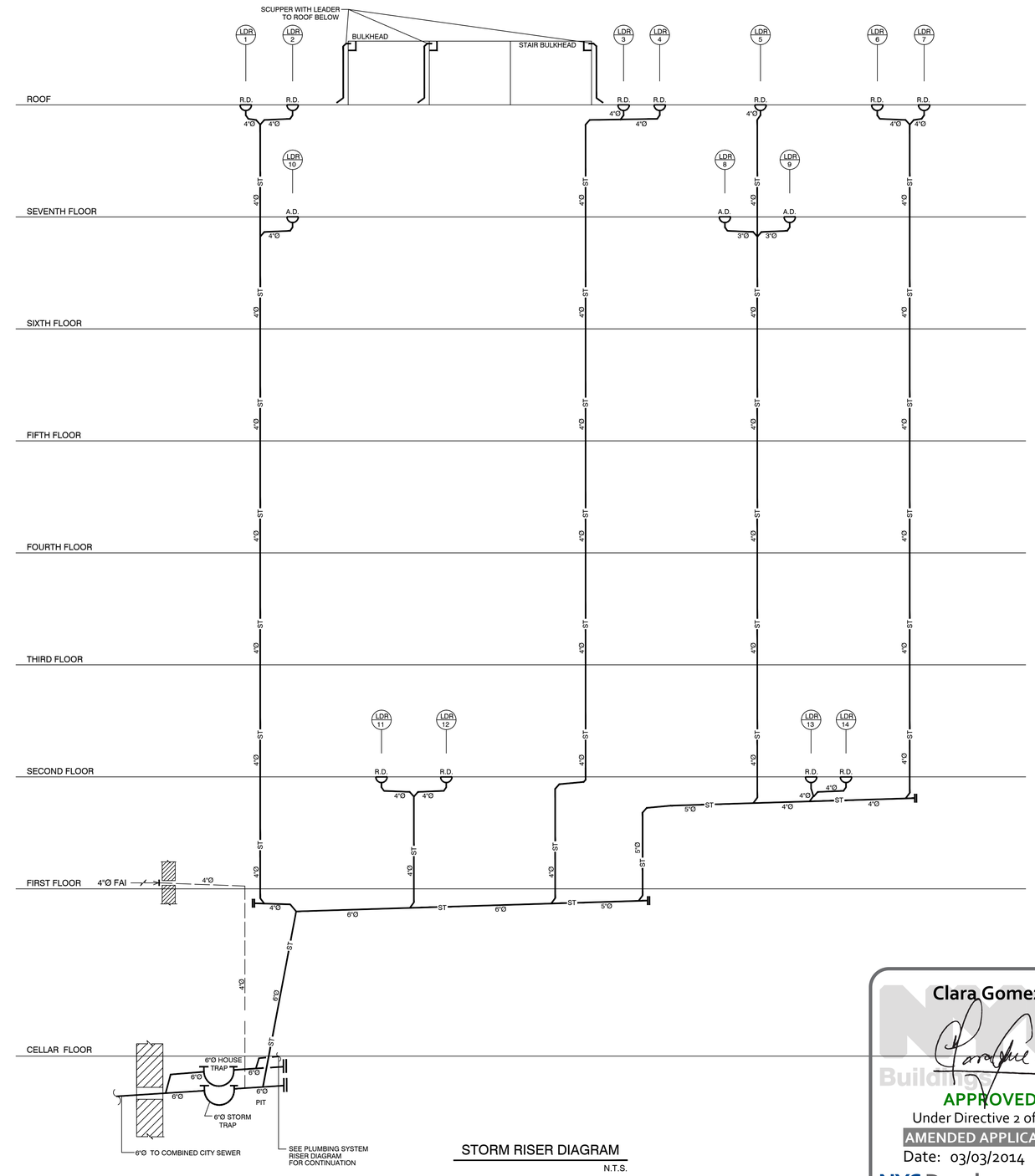
FIXTURE CONNECTION SCHEDULE

	TYPE OF FIXTURE	DRAIN	VENT	C.W.	H.W.
W.C.	WATER CLOSET (FLUSH)	4	2	1	-
W.C.	WATER CLOSET (TANK)	4	2	1/2	-
LAV.	LAVATORY	1 1/2	1 1/2	1/2	1/2
S.	SINK	2	1 1/2	1/2	1/2
SH.	SHOWER	1 1/2	1 1/2	1/2	1/2
TUB.	BATHTUB	3	1 1/2	1/2	1/2
F.D.	FLOOR DRAIN	3	2	-	-



PLUMBING SYSTEM RISER DIAGRAM (PART II)

N.T.S.



STORM RISER DIAGRAM

N.T.S.

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

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DEPT OF BLDGS 320591739 Job Number

ES048800296 Scan Code

INSULATE ALL WATER & HEATING PIPING WITH 2" MIN THERMAL INSULATION

P-1 B & G
BRONZE BOOSTER PUMP
PUMP MOD. # SERIES 100
10 GPM, 8 Ft HEAD, 1/12 H.P., 115V, 60Hz,
1.75 AMPS, 1725 RPM
TOTAL: 23

HWH-1 A.O. SMITH
RESIDENTIAL ELECTRIC WATER HEATERS
PROMAX MOD. # ECT-80, SERIES 210
FIRST HOUR RATING 81 GAL., CAPACITY 80 GAL.
STD. 240V 4500 WATT, MAX 240 V 6000 WATT
HYDROSTATIC WORKING PRESSURE 150 PSI, WEIGHT 880 LBS.
TOTAL: 36

HWH-2 A.O. SMITH
RESIDENTIAL ELECTRIC WATER HEATERS
PROMAX MOD. # EJC-10,
RECOVERY 90°F RISE 8 GAL., CAPACITY 10 GAL.
STD. 120V 6000 WATT
HYDROSTATIC WORKING PRESSURE 150 PSI, WEIGHT 51 LBS.
TOTAL: 1

ET-1
BELL & GOSSET NON-ASME EXPANSION TANK SERIES "HFT"
PRE-CHARGED DIAPHRAGM TANK
MOD. # HFT-90, 14 GAL.
TOTAL 36 TANKS.

SYSTEM CAPACITY: 160 GPM @ 40 PSI

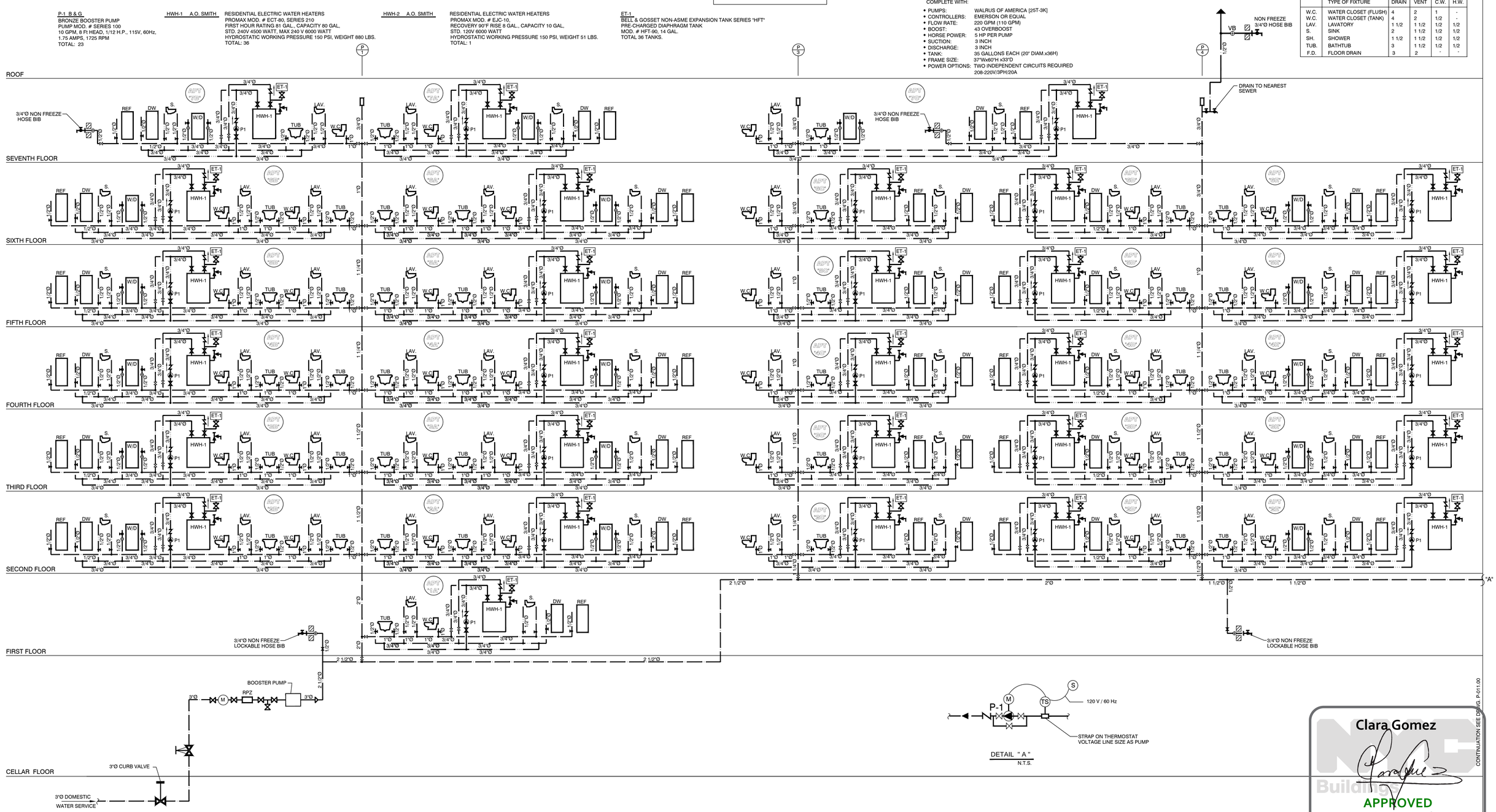
TOWLE WHITNEY DUPLEX WATER BOOSTER SYSTEM

TW2000H-220W-43 DUPLEX
COMPLETE WITH:

- PUMPS: WALRUS OF AMERICA [25T-3K]
- CONTROLLERS: EMERSON OR EQUAL
- FLOW RATE: 220 GPM (110 GPM)
- BOOST: 43 OVERBOOST
- HORSE POWER: 5 HP PER PUMP
- SUCTION: 3 INCH
- DISCHARGE: 3 INCH
- TANK: 35 GALLONS EACH (20" DIAM.x36H)
- FRAME SIZE: 37"Wx60"H x33"D
- POWER OPTIONS: TWO INDEPENDENT CIRCUITS REQUIRED 208-220V/3PH/20A

FIXTURE CONNECTION SCHEDULE

	TYPE OF FIXTURE	DRAIN	VENT	C.W.	H.W.
W.C.	WATER CLOSET (FLUSH)	4	2	1	-
W.C.	WATER CLOSET (TANK)	4	2	1/2	-
LAV.	LAVATORY	1 1/2	1 1/2	1/2	1/2
S.	SINK	2	1 1/2	1/2	1/2
SH.	SHOWER	1 1/2	1 1/2	1/2	1/2
TUB.	BATHTUB	3	1 1/2	1/2	1/2
F.D.	FLOOR DRAIN	3	2	-	-



DETAIL " A "
N.T.S.

COLD & HOT WATER SYSTEM RISER DIAGRAM (PART I)
N.T.S.

CONTINUATION SEE DWG. P-011.00

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
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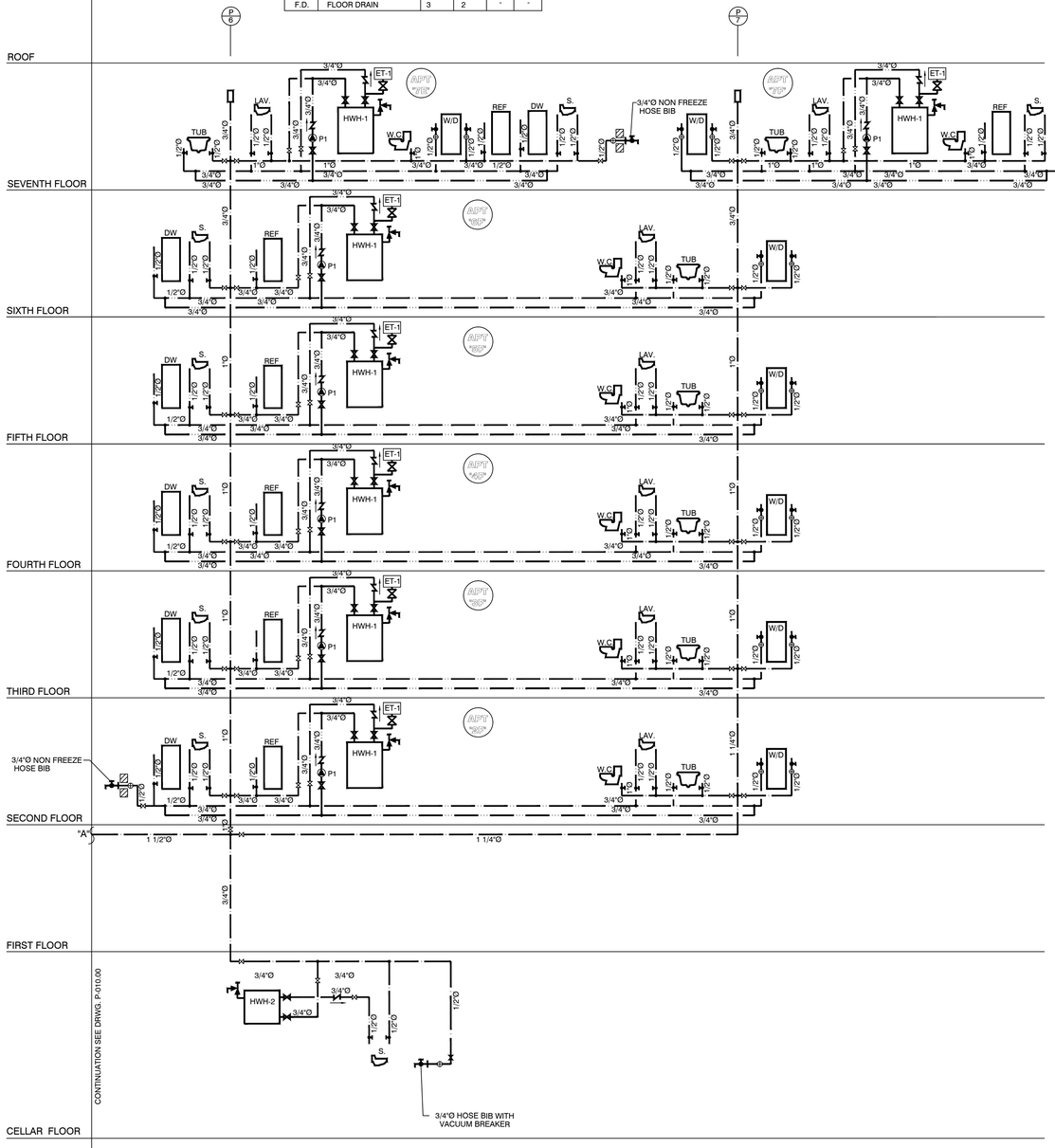
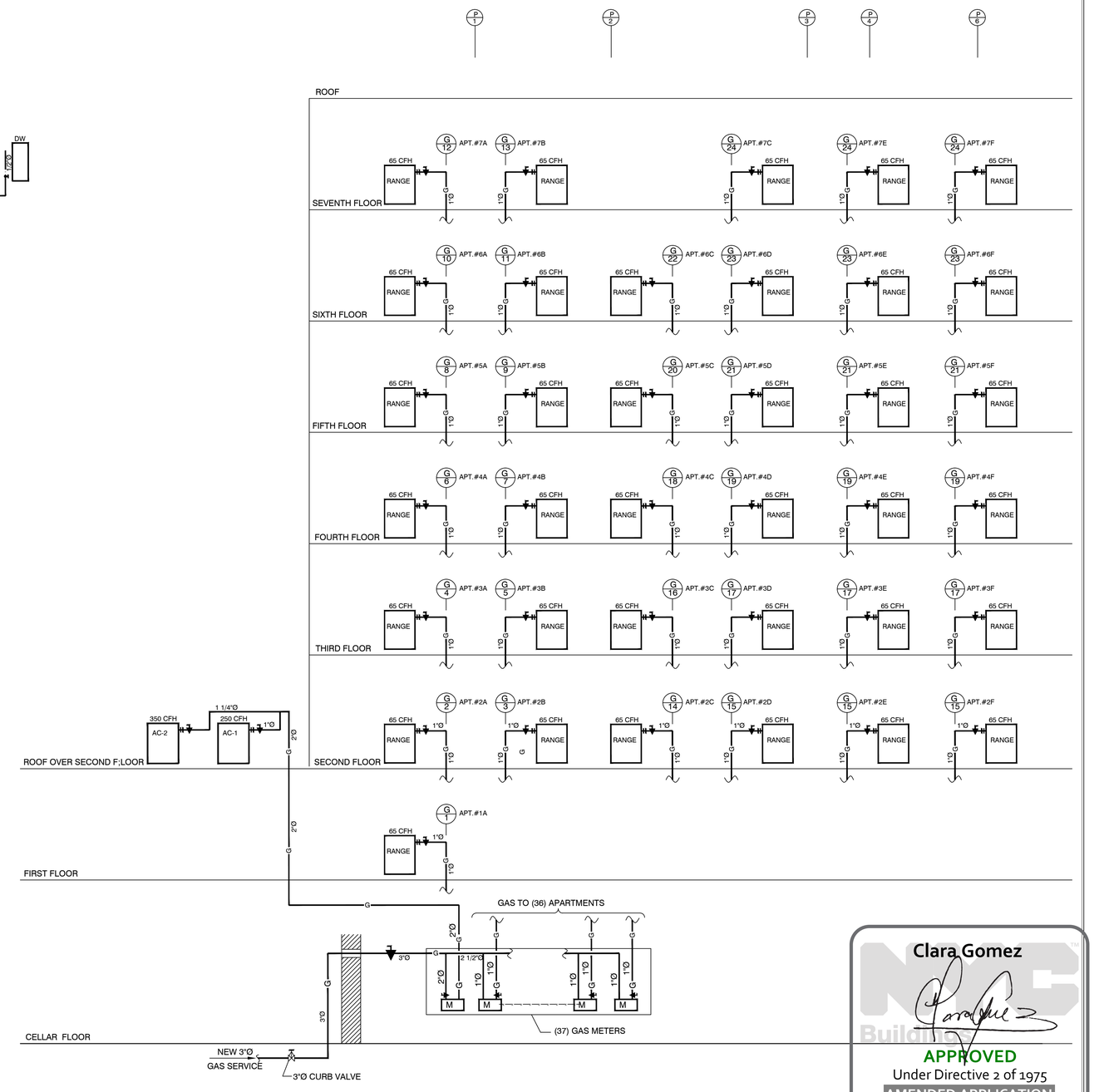
FIXTURE CONNECTION SCHEDULE

	TYPE OF FIXTURE	DRAIN	VENT	C.W.	H.W.
W.C.	WATER CLOSET (FLUSH)	4	2	1	-
W.C.	WATER CLOSET (TANK)	4	2	1/2	-
LAV.	LAVATORY	1 1/2	1 1/2	1/2	1/2
S.	SINK	2	1 1/2	1/2	1/2
SH.	SHOWER	1 1/2	1 1/2	1/2	1/2
TUB.	BATHTUB	3	1 1/2	1/2	1/2
F.D.	FLOOR DRAIN	3	2	-	-



COLD & HOT WATER RISER DIAGRAM (PART II)
N.T.S.



GAS RISER DIAGRAM
N.T.S.

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

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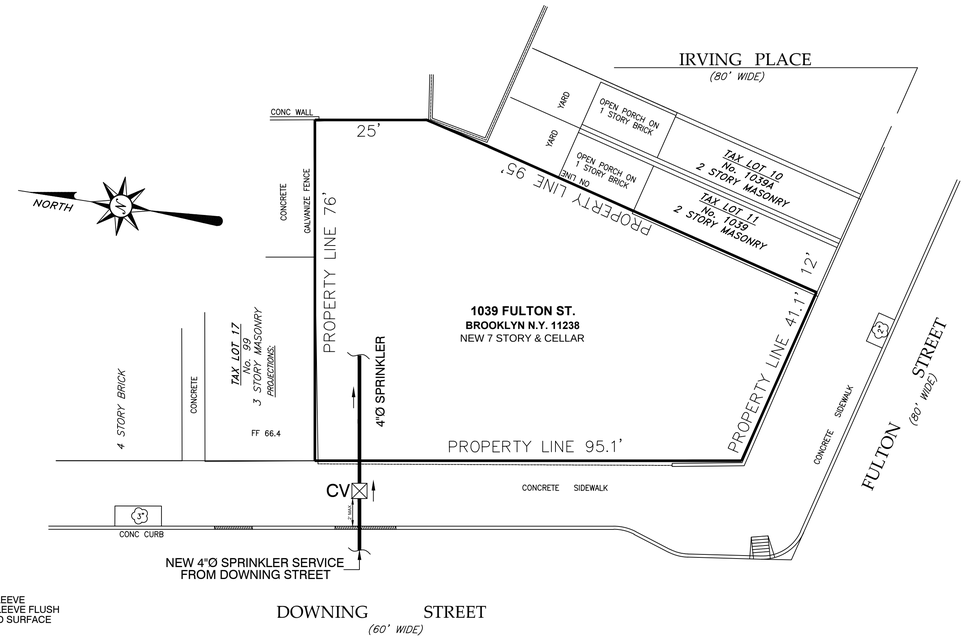
STATE OF NEW YORK · BORIS LEVIN · 071338 · LICENSED PROFESSIONAL ENGINEER

NEW YORK CITY SPRINKLER NOTES

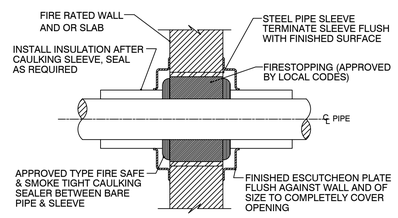
1. THE INSTALLATION COMPONENT, SIZING, SPACING, CLEARANCES, POSITION AND TYPE OF SYSTEMS SHALL CONFORM TO APPENDIX Q, SECTION BC Q102 AND SECTION BC 903.
2. ONLY APPROVED MATERIALS SHALL BE USED AS PER CHAPTER 6 OF APPENDIX Q SECTION BCQ102.
3. DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM TO SECTION BCQ102.1 SEE 15.2.1 AND 15.1.1 (D).
4. SPRINKLER SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER APPENDIX Q BCQ102, SEC. 8.15.3 AND 6.2.8.
5. INSPECTIONS AND TESTS OF SPRINKLERS SHALL BE CONDUCTED AS PER SEC. 901.5 AND APPENDIX Q, SEC. BCQ102, CH. 16.
6. THE OCCUPANCY OF THE AREAS TO BE SPRINKLED IN ACCORDANCE WITH SECTIONS 5.2 AND A.5.2 OF APPENDIX Q SECTION BCQ102.
7. WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS PER SECTION 8.16.1 AND 8.16.4 OF APPENDIX Q SECTION BCQ102.
8. PIPING, FITTINGS, SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE, VALVES, HANGERS, SPRINKLER GUARDS AND SHIELDS SHALL BE AS PER APPENDIX Q SECTION BCQ102, CHAPTERS 6 AND 9.
9. STOCK OF EXTRA SPRINKLERS SHALL BE FURNISHED AS PER SECTION 6.2.9 APPENDIX Q SECTION BCQ102 (REQUIRED FOR EACH TEMPERATURE RATING).
10. SPRINKLER ALARM WILL BE IN ACCORDANCE WITH SECTION 8.16.1 OF APPENDIX Q SECTION BCQ102.
11. SPACING, LOCATION AND POSITION OF SPRINKLER WILL BE AS PER SECTION 8 OF APPENDIX Q SECTION BCQ102.
12. ALL BLIND SPACES EXCEEDING 6" IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL WILL BE SPRINKLED.
13. ALL PIPING PASSING THROUGH WALLS WILL COMPLY WITH SECTION BC712.
14. THERE IS NO HIGH PILED STORAGE AS DEFINED IN SECTION 3-3.12 OF APPENDIX Q SECTION BCQ102.
15. DISTANCE OF SPRINKLERS FROM HEAT SOURCE SHALL BE AS PER TABLES 9.3.2.5 (a) AND 8.3.2.5 (b).
16. AS PER SECTION BC903.1.2 PROVIDE DEPARTMENT OF WATER SUPPLY LETTER WITH FLOW TEST DATA IF THERE IS A DIRECT CONNECTION TO THE STREET WATER SUPPLY.
17. ALL PIPES PASSING THROUGH FOUNDATION WALLS SHALL BE PROTECTED AS PROVIDED BY SECTION 305.5 OF THE PLUMBING CODE.
18. THIS APPLICATION IS NOT FILED AS A RESULT OF BY THE FIRE COMMISSIONER AS AUTHORIZED BY BS&A TO MODIFY THE CERTIFICATE OF OCCUPANCY NOR IS SUCH ACTION PENDING.
19. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY SECTION 6-7.4 OF APPENDIX Q SECTION BCQ102.
20. DRAINAGE SHALL CONFORM TO SECTION 8.15.2 OF APPENDIX Q SECTION BCQ102.
21. A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE, AS PER SECTION 6.4.6 OF APPENDIX Q SECTION BCQ102.
22. ALL VALVES ON CONNECTIONS TO WATER SUPPLY TO SPRINKLER SHALL BE APPROVED OS&Y OR APPROVED INDICATOR TYPE.
23. DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER SECTION 6.7.3 OF APPENDIX Q SECTION BCQ102.
24. HANGERS SHOULD BE SUPPORTED BY WROUGHT IRON U TYPE OR APPROVED ADJUSTABLE HANGERS. HANGERS SHALL BE OF THE TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED, AS PER CHAPTER 9 OF APPENDIX Q SECTION BCQ102.
25. PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTION CONSISTING OF A CAPPED NIPPLE 4" LONG ON END OF A CROSS MAIN AS PER SECTION 8.14.16 OF APPENDIX Q SECTION BCQ102.
26. SPRINKLER SHALL BE AN APPROVED TYPE AS PER SECTION 8.3 OF APPENDIX Q SECTION BCQ102.
27. TEMPERATURE RATING SHALL COMPLY WITH SECTION 8.3 OF APPENDIX Q SECTION BCQ102.
28. 18" MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER SECTION 8.5.6 OF APPENDIX Q SECTION BCQ102.
29. SPACING AND LOCATION OF SPRINKLERS SHALL COMPLY WITH CHAPTER 8 OF APPENDIX Q SECTION BCQ102.
30. SPRINKLER SYSTEM COMPLIES WITH NFPA 13-2002 AS MODIFIED BY APPENDIX Q SECTION BCQ102.
31. SOURCES OF WATER SUPPLY FOR SPRINKLER SYSTEMS AS PER CHAPTER 15 OF APPENDIX Q SECTION BCQ102.
32. PIPE SCHEDULE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 14.5 OF APPENDIX Q SECTION BCQ102.
33. AUTOMATIC INTERLOCK CUTOFF SWITCH FOR VENTILATION WILL CONFORM TO CHAPTER 6 OF THE MECHANICAL CODE (APPLICABLE ONLY IF THERE IS AN AIR SYSTEM UTILIZING RECIRCULATED AIR AND REQUIRING A THERMOSTATIC DEVICE).
34. HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS SHALL BE IN ACCORDANCE WITH CHAPTER 14 OF APPENDIX Q SECTION BCQ102.
35. MINIMUM BRANCH PIPE SIZE TO BE ONE INCH (1").
36. SPRINKLER SYSTEMS ARE DESIGNED IN ACCORDANCE WITH NFPA13 OF 2002 AND NYC BUILDING CODE.
37. ALL WORK MUST BE DONE BY LICENSED SPRINKLER CONTRACTOR.



PLOT PLAN

N.T.S.

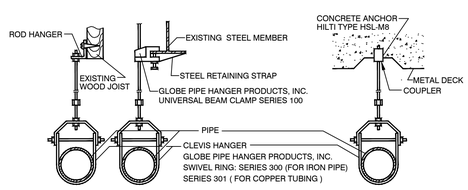
BLOCK:	1992	ZONE:	R7A
LOT:	13	MAP:	16c



PIPE SLEEVE THRU FIRE RATED WALL
N.T.S.

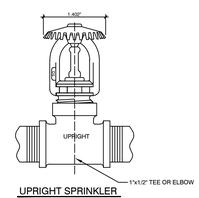
SPECIAL INSPECTIONS :

1. SPRINKLER SYSTEMS

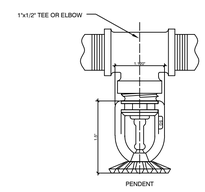


HANGER ROD SPACING AND SIZE SCHEDULE			
NOM. PIPE SIZE (INCHES)	STEEL PIPE MAX. SPAN (FEET)	COPPER TUBE MAX. SPAN (FEET)	MINIMUM ROD DIAMETER (INCHES)
UP TO 3/4	7	5	3/8
1	7	6	3/8
1-1/4	7	6	3/8
1-1/2	9	8	3/8
2	10	8	3/8
2-1/2	11	9	1/2
3	12	10	1/2
3-1/2	12	10	1/2
4	12	10	5/8, 1/2 FOR COPPER
5	12	10	5/8, 1/2 FOR COPPER
6	12	10	3/4, 5/8 FOR COPPER
8	12	10	7/8, 3/4 FOR COPPER

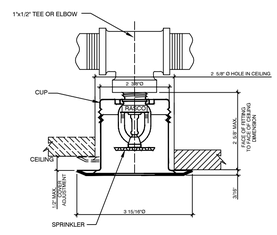
FIRE PROTECTION PIPE HANGER DETAIL N.T.S.



UPRIGHT SPRINKLER
MODEL # F1FR, 1/2"Ø ORIFICE
TEMPERATURE RATING 155°F
MEA # 258-93-E



PENDENT SPRINKLER
MODEL # F1FR, 1/2"Ø ORIFICE
TEMPERATURE RATING 155°F
MEA # 258-93-E



RELIABLE CONCEALED PENDENT RESIDENTIAL SPRINKLER
MOD. F4 RES 1/2"Ø ORIFICE
TEMPERATURE RATING 135°F, K= 5.5
MEA # 258-93-E

TECHNICAL DATA

ORIFICE SIZE : 1/2"
THREAD SIZE : 1/2 NPT
TEMPERATURE RATING : 155°F
MAX. PRESSURE : 175 PSIG
MAX. CEILING TEMP. : 100°F
SPRINKLER LENGTH : 2.75"

DEFLECTOR HSW 5

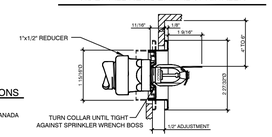
APPROVAL ORGANIZATIONS

UNDERWRITERS LABORATORIES, INC.
UNDERWRITERS LABORATORIES OF CANADA
N.Y.C. MEA# 258-93-E

ULI LISTING CATEGORY

RESIDENTIAL AUTOMATIC SPRINKLERS

MODEL F1RES44 RECESSED HORIZONTAL SIDEWALL RESIDENTIAL SPRINKLER



INSTALLATION WRENCH
MODEL GFR1 SPRINKLER WRENCH

PROPOSED SCOPE OF WORK IS EXEMPT FROM ENERGY COMPLIANCE AS PER SECTION ECC 101.4.3

THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NO CHANGE IN USE, OCCUPANCY AND EGRESS UNDER THIS APPLICATION.

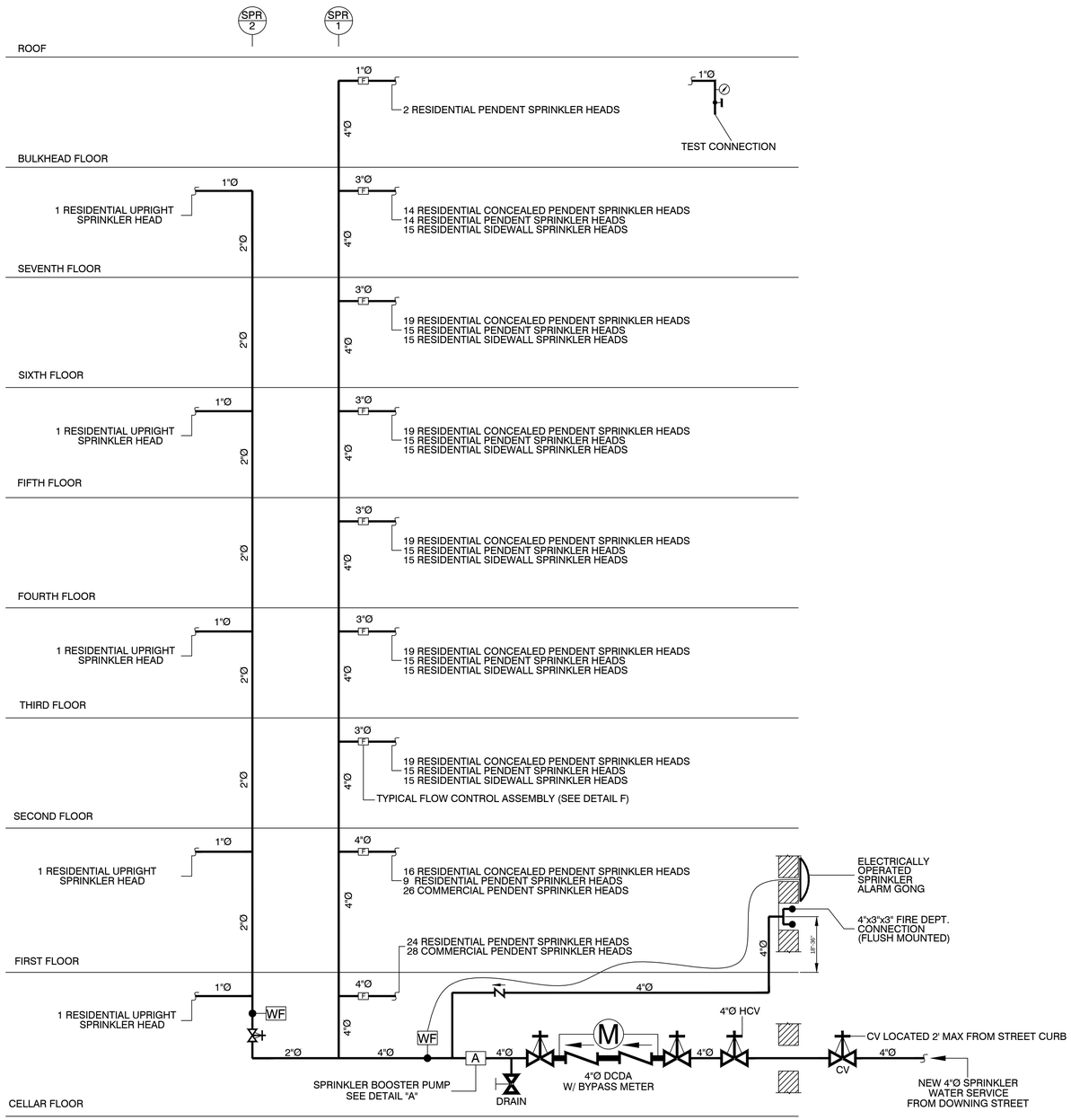
LEGEND

- SPRINKLER PIPING
- RESIDENTIAL UPRIGHT SPRINKLER HEAD RELIABLE MOD. F1FR (K5.6) TEMPERATURE RATING 155°F
- RESIDENTIAL SIDEWALL SPRINKLER HEAD RELIABLE MOD. F1RES44 (K4.4) TEMPERATURE RATING 155°F
- RESIDENTIAL CONCEALED PENDENT SPRINKLER HEAD RELIABLE MOD. F4 RES (K5.5) TEMPERATURE RATING 135°F
- RESIDENTIAL PENDENT SPRINKLER HEAD RELIABLE MOD. F1FR (K5.5) TEMPERATURE RATING 155°F
- COMMERCIAL PENDENT SPRINKLER HEAD RELIABLE MOD. F4 RES (K5.5) TEMPERATURE RATING 135°F
- SHUT-OFF VALVE WITH TAMPER SWITCH
- WF — WATER FLOW SWITCH
- CHECK VALVE WITH A.B.D. NYC. B.S.A. # 587-75-SA UL LISTED # HMER.EX3160
- CV — CURB VALVE
- F — FLOW CONTROL ASSEMBLY

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

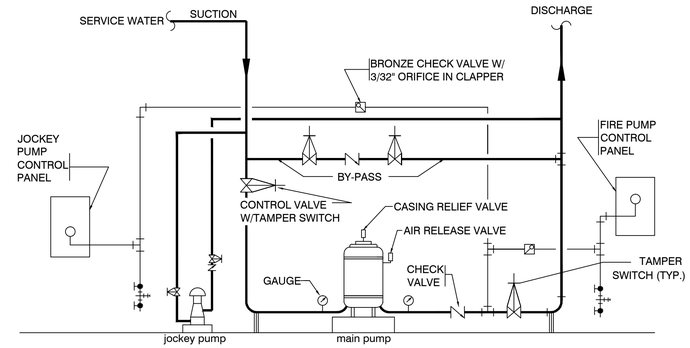
OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com	1035 FULTON STREET Brooklyn, New York 11238	PLOT PLAN, LEGEND, SCHEDULES, DETAILS, NOTES SCALE: AS SHOWN	1. 2. 3. 4. 5.		SPR 001.00 1 OF 8

DEPT OF BLDGS 320591739 Job Number
ES922455509 Scan Code



SPRINKLER SYSTEMS RISER DIAGRAM

N.T.S.



DETAIL "A". SPRINKLER BOOSTER PUMP

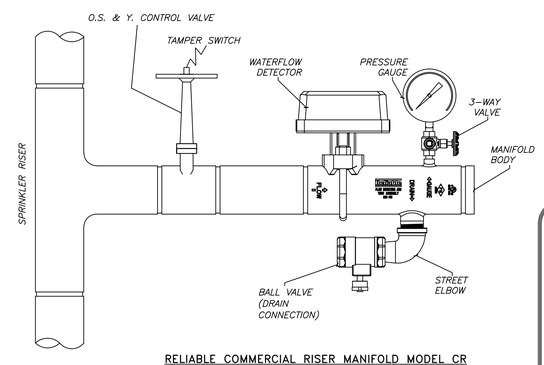
N.T.S.

SUPPLIED & INSTALLED BY SPRINKLER CONTRACTOR.
WIRED BY ELECTRICAL CONTRACTOR.

BOOSTER PUMP
PEERLESS PUMP COMPANY
IN-LINE CENTRIFUGAL PUMP TYPE PV ,SIZE 3 x 3 x 10B, 250 GPM, 45' HD,
3-PHASE MOTOR, 7.5 HP, 1750 RPM, WEIGHT 193 LBS

JOCKEY PUMP
GRUNDFOSS MOD. # CR-3-6 , 1 H.P.,
3450 RPM, 208V, 3PH, 10 GPM @ 45' HD
MEA # 121-02-E

NOTE: FIRE PUMP SHALL BE INSTALLED AT THE ENTRANCE FLOOR LEVEL OR BELOW, IN ROOMS ENCLOSED BY NONCOMBUSTIBLE CONSTRUCTION HAVING A TWO HOUR FIRE-RESISTANCE RATING AND THAT ARE ADEQUATELY HEATED, VENTILATED, LIGHTED, AND DRAINED. THE PUMP ROOM SHALL HAVE ACCESS TO THE STREET LEVEL BY A DIRECT OPENING TO A STREET OR A COURT, OR BY A PASSAGEWAY OR STAIRWAY HAVING A FIRE-RESISTANCE RATING OF AT LEAST TWO HOURS.



RELIABLE COMMERCIAL RISER MANIFOLD MODEL CR
SIZES: 2", 2 1/2", 3", 4", 6", 8"

DETAIL "F". FLOW CONTROL ASSEMBLY

N.T.S.

Clara Gomez
NYC Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
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DEPT OF BLDGS 320591739 Job Number

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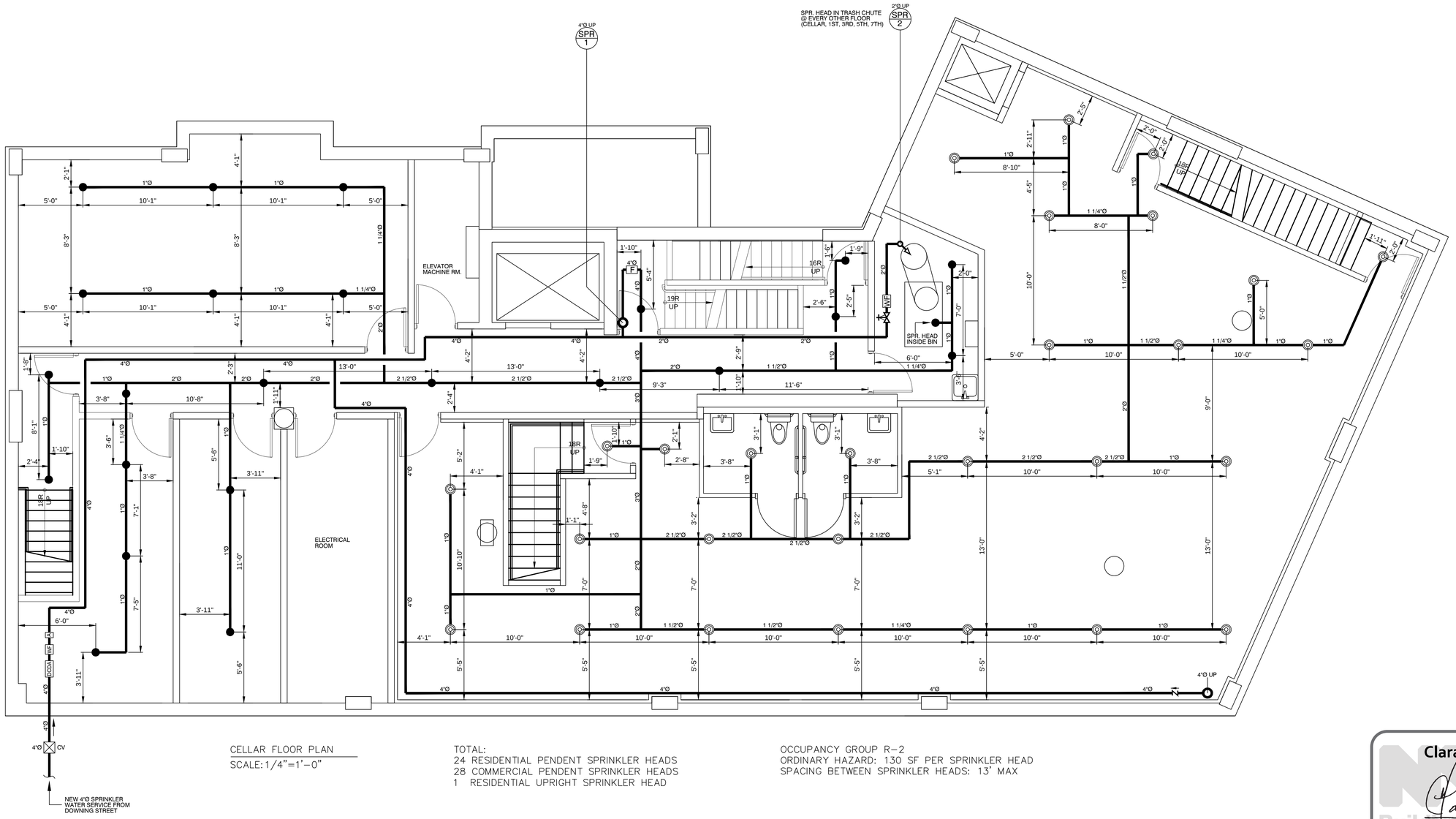

CELLAR FLOOR PLAN

SCALE: 1/4"=1'-0"

TOTAL:
24 RESIDENTIAL PENDENT SPRINKLER HEADS
28 COMMERCIAL PENDENT SPRINKLER HEADS
1 RESIDENTIAL UPRIGHT SPRINKLER HEAD

OCCUPANCY GROUP R-2
ORDINARY HAZARD: 130 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 13' MAX

Clara Gomez

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
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DEPT OF BLDGS 320591739 Job Number
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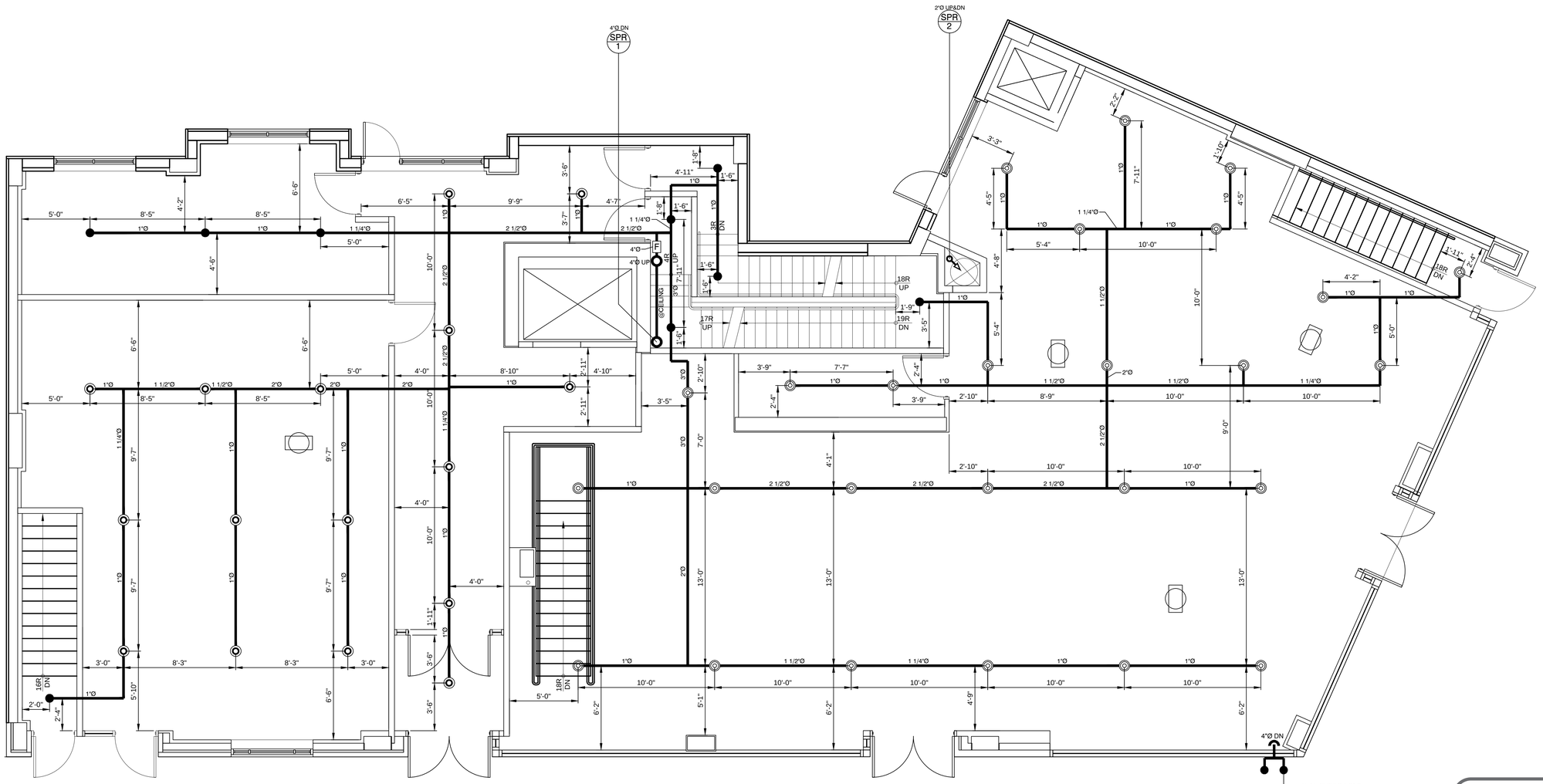

FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"

TOTAL:
16 RESIDENTIAL CONCEALED PENDENT SPRINKLER HEADS
9 RESIDENTIAL PENDENT SPRINKLER HEADS
26 COMMERCIAL PENDENT SPRINKLER HEADS
1 RESIDENTIAL UPRIGHT SPRINKLER HEAD

OCCUPANCY GROUP R-2
ORDINARY HAZARD: 130 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 13' MAX

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
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DEPT OF BLDGS 320591739 Job Number

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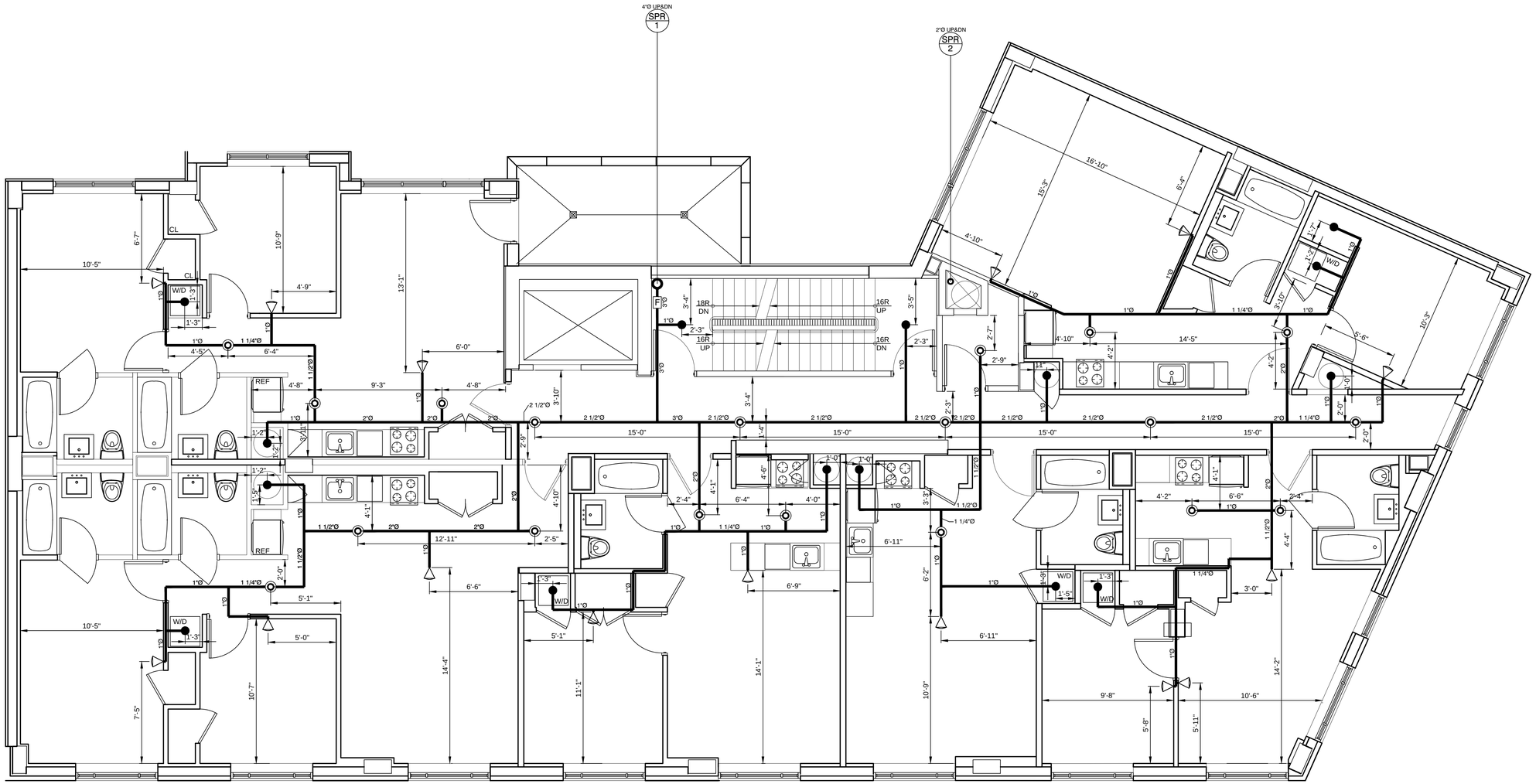

SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

TOTAL:
19 RESIDENTIAL CONCEALED PENDENT SPRINKLER HEADS
15 RESIDENTIAL PENDENT SPRINKLER HEADS
15 RESIDENTIAL SIDEWALL SPRINKLER HEADS

OCCUPANCY GROUP R-2
LIGHT HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

Clara Gomez

NYC Buildings

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
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DEPT OF BLDGS 320591739 Job Number

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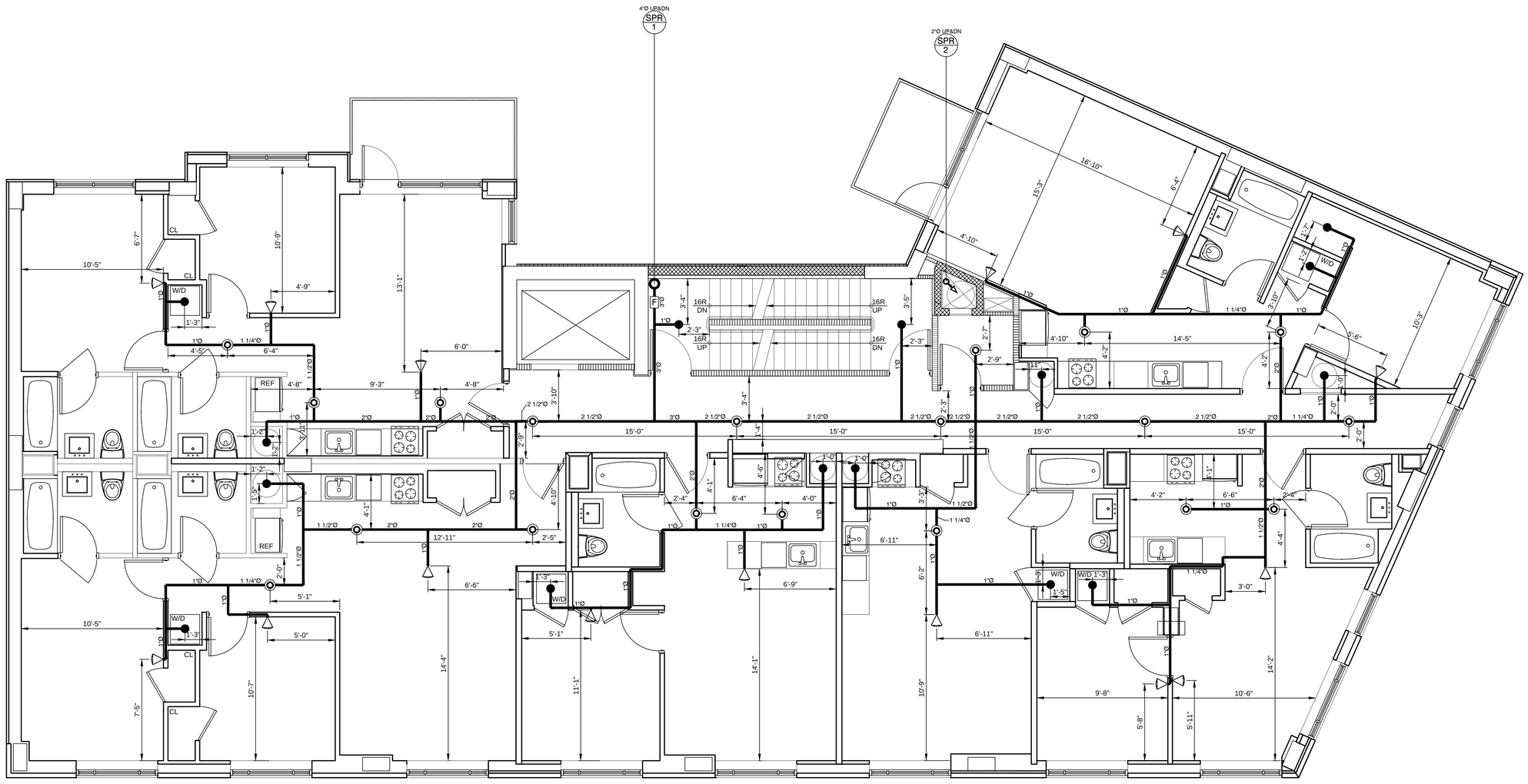

THIRD THRU SIXTH FLOOR PLAN

SCALE: 1/4"=1'-0"

TOTAL:
19 RESIDENTIAL CONCEALED PENDENT SPRINKLER HEADS
15 RESIDENTIAL PENDENT SPRINKLER HEADS
15 RESIDENTIAL SIDEWALL SPRINKLER HEADS
1 RESIDENTIAL UPRIGHT SPRINKLER HEAD (3RD & 5TH FLOOR ONLY)

OCCUPANCY GROUP R-2
LIGHT HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

Clara Gomez

NYC Buildings

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

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DEPT OF BLDGS 420591739 Job Number
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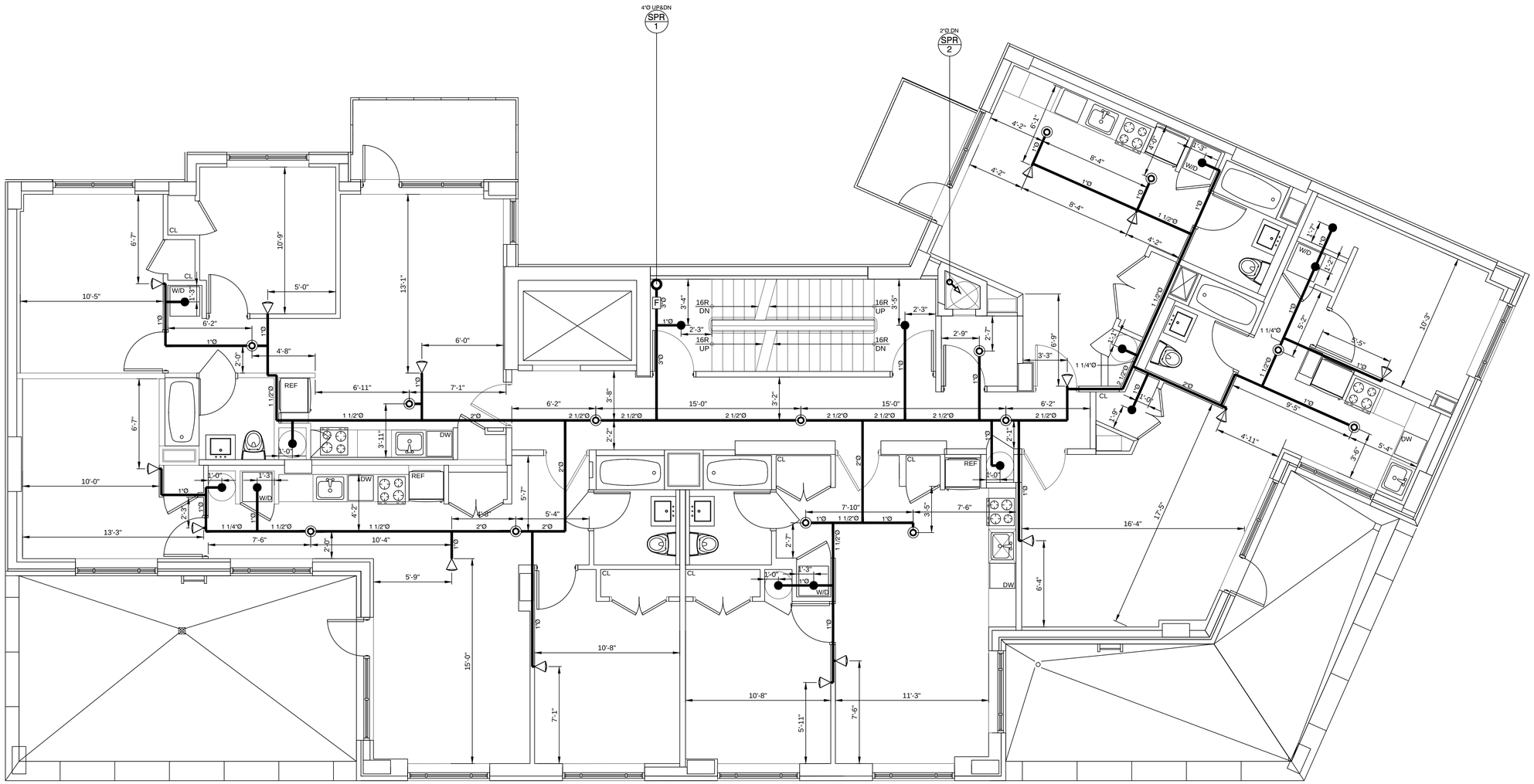


SEVENTH FLOOR PLAN
SCALE: 1/4"=1'-0"

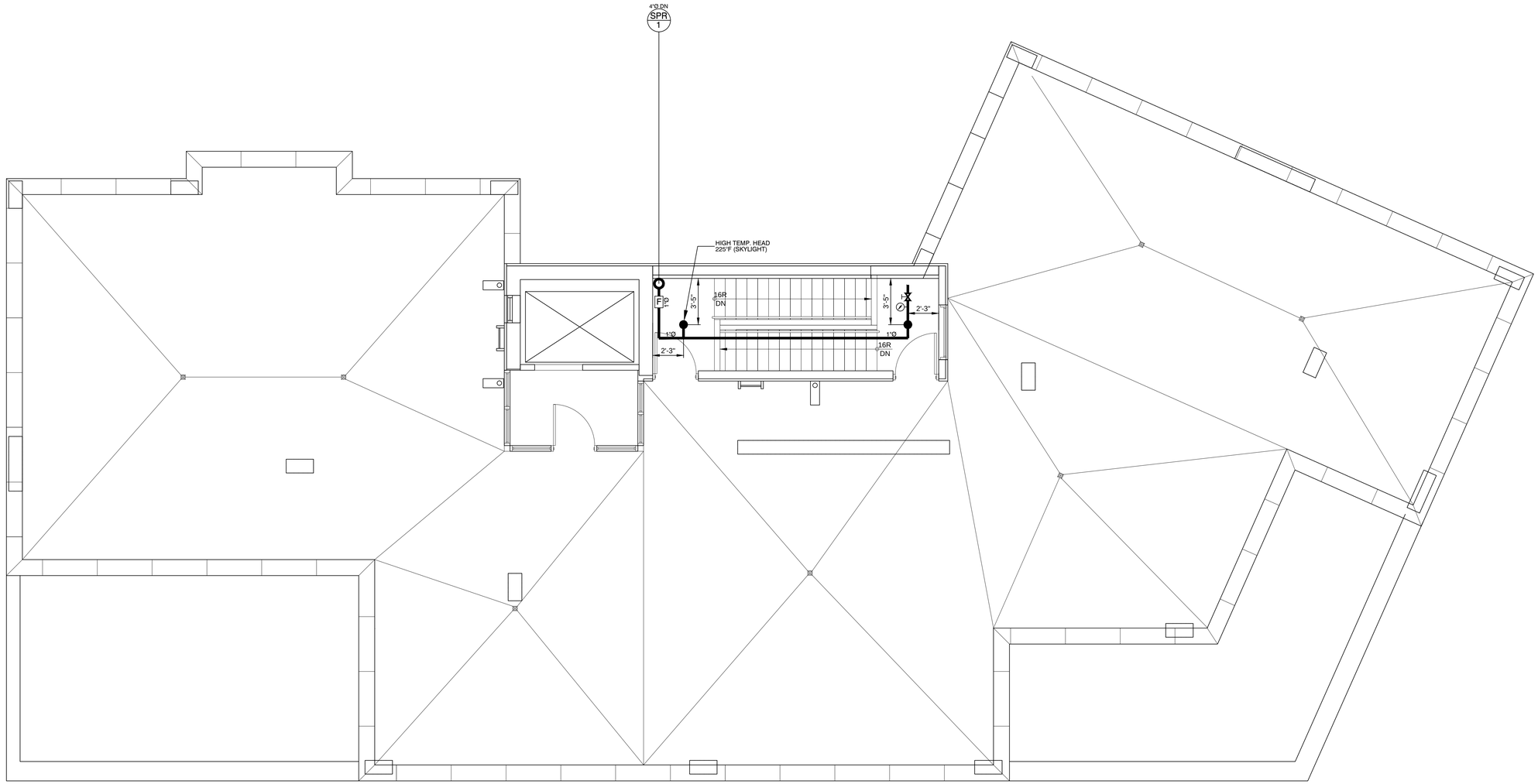
TOTAL:
14 RESIDENTIAL CONCEALED PENDENT SPRINKLER HEADS
14 RESIDENTIAL PENDENT SPRINKLER HEADS
15 RESIDENTIAL SIDEWALL SPRINKLER HEADS
1 RESIDENTIAL UPRIGHT SPRINKLER HEAD

OCCUPANCY GROUP R-2
LIGHT HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com	1035 FULTON STREET Brooklyn, New York 11238	SEVENTH FLOOR PLAN SCALE: AS SHOWN	1. 2. 3. 4. 5.		SPR 007.00 7 OF 8

DEPT OF BLDGS 420591739 Job Number
ES230853273 Scan Code



ROOF PLAN
SCALE: 1/4"=1'-0"

TOTAL:
2 RESIDENTIAL PENDENT SPRINKLER HEADS

OCCUPANCY GROUP R-2
LIGHT HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
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7TH FLOOR COMPARTMENT
Fire Sprinkler Reports

for

RESIDENTIAL BLDG
1035 FULTON STREET
BROOKLYN, NY

Prepared By:

I.B.
LEVIN ENGINEERING PLLC
28 DOOLEY STREET
BROOKLYN NY 11235

7/18/13

General Project Data Report

General Data

Project Title: 7th FLOOR COMPARTMENT
Designed By: I.B.
Code Reference: NFPA 13.

Project File Name: 1311_1.TMP
Date: 7/18/13
Approving Agency: NYC BD

Client Name: RESIDENTIAL BLDG
Address: 1035 FULTON STREET

Phone:
City, State Zip Code: BROOKLYN, NY

Company Name: LEVIN ENGINEERING PLLC
Company Address: 28 DOOLEY STREET
Phone:

Representative: LEVIN ENGINEERING PLLC
City And State: BROOKLYN NY 11235

Building Name:
Contact at Building:
Address Of Building:

Building Owner:
Phone at Building:
City, State Zip Code:

Project Data

Description Of Hazard: RESIDENTIAL
Design Area Of Water Application: 320 ft²
Default Sprinkler K-Factor: 4.90 K
Inside Hose Stream Allowance: 0.00 gpm
In Rack Sprinkler Allowance: 0.00 gpm

Sprinkler System Type: Wet
Maximum Area Per Sprinkler: 100 ft²
Default Pipe Material: SCHED 40 WET STEEL
Outside Hose Stream Allowance: 100.00 gpm

Sprinkler Specifications
Make: RELIABLE
Size: 1/2
Fire Pump 250 GPM @ 45 PSI

Model: RFC49
Temperature Rating: 165 F

Water Supply Test Data

Source Of Information: NYC EP
Test Hydrant ID:

Date Of Test: 3/18/13

Hydrant Elevation: 0 ft
Test Flow Rate: 500.00 gpm
Calculated System Flow Rate: 57.89 gpm
Available Residual Pressure At System Flow: 108.44 psi

Static Pressure: 56.00 psi
Test Residual Pressure: 55.00 psi
Calculated Inflow Residual Pressure: 61.48 psi

Calculation Project Data

Calculation Mode: Demand
HMD Minimum Residual Pressure: 7.60 psi
Number Of Active Nodes: 17
Number Of Active Pipes: 16
Number Of Active Sprinklers: 4

Minimum Desired Flow Density: 0.10 gpm/ft²

Number Of Inactive Pipes: 0
Number Of Inactive Sprinklers: 0

Fire Sprinkler Output Data

Group Peak Pipe Output Data

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
1	4.90	81.00	13.51	7.60	1.00	13.51	0.06299	4.67	0.609
10	0.00	82.00	0.00	7.78	1.049	13.51	T	5.00	-0.433
	SCHED 40 WET STEEL				120	5.01	0	9.67	0.176
2	4.90	81.00	13.66	7.77	1.00	13.66	0.06433	1.75	0.434
10	0.00	82.00	0.00	7.78	1.049	13.66	T	5.00	-0.433
	SCHED 40 WET STEEL				120	5.07	0	6.75	0.001
3	4.90	81.00	15.42	9.90	1.00	15.42	0.08043	1.82	0.549
11	0.00	82.00	0.00	10.01	1.049	15.42	T	5.00	-0.433
	SCHED 40 WET STEEL				120	5.72	0	6.82	0.116
4	4.90	81.00	15.31	9.76	1.00	15.31	0.07937	3.67	0.688
11	0.00	82.00	0.00	10.01	1.049	15.31	T	5.00	-0.433
	SCHED 40 WET STEEL				120	5.68	0	8.67	0.255
10	0.00	82.00	0.00	7.78	1.00	0.00	0.22950	9.75	2.238
11	0.00	82.00	0.00	10.01	1.049	27.17	----	0.00	0.000
	SCHED 40 WET STEEL				120	10.09	0	9.75	2.238
11	0.00	82.00	0.00	10.01	1.25	0.00	0.24466	11.00	4.893
12	0.00	82.00	0.00	14.91	1.380	57.89	ET	9.00	0.000
	SCHED 40 WET STEEL				120	12.42	0	20.00	4.893
12	0.00	82.00	0.00	14.91	2.50	0.00	0.01049	29.00	0.472
13	0.00	82.00	0.00	15.38	2.635	57.89	T	16.00	0.000
	SCHED 10 WET STEEL				120	3.41	0	45.00	0.472
13	0.00	82.00	0.00	15.38	3.00	0.00	0.00372	10.50	0.229
14	0.00	82.00	0.00	15.61	3.260	57.89	2ETB	51.00	0.000
	SCHED 10 WET STEEL				120	2.23	0	61.50	0.229
14	0.00	82.00	0.00	15.61	4.00	0.00	0.00101	84.00	0.098
90	0.00	-2.00	0.00	52.08	4.260	57.89	E	13.00	36.372
	SCHED 10 WET STEEL				120	1.30	0	97.00	36.470
90	0.00	-2.00	0.00	52.08	4.00	0.00	0.00101	57.00	0.084
94	0.00	-5.00	0.00	53.46	4.260	57.89	2E	26.00	1.299
	SCHED 10 WET STEEL				120	1.30	0	83.00	1.383
94	ACV	-5.00		53.46		57.94			
95	1.00 psi	-5.00		54.46					
95	0.00	-5.00	0.00	54.46	4.00	0.00	0.00101	8.00	0.061
96	0.00	-8.00	0.00	55.82	4.260	57.89	2ET	52.00	1.299
	SCHED 10 WET STEEL				120	1.30	0	60.00	1.360

Fire Sprinkler Output Data

Group Peak Pipe Output Data

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
96	Fire Pump.	-8.00		55.82		57.89			
97	Boost Ignored	-8.00		55.82					
97	0.00	-8.00	0.00	55.82	4.00	0.00	0.00101	55.00	0.134
98	0.00	-8.00	0.00	55.96	4.260	57.89	6E	78.00	0.000
	SCHED 10 WET STEEL				120	1.30	0	133.00	0.134
98	Backflo Prev.	-8.00		55.96		57.86			
99	8.00 psi	-8.00		63.95					
99	0.00	-8.00	0.00	63.95	4.00	0.00	0.00124	50.00	0.132
100	0.00	-2.00	0.00	61.48	3.850	57.89	2ETG	55.90	-2.598
	CAST IRON, CEMENT				140	1.60	0	105.90	-2.466

Fire Sprinkler Output Data

Group Peak Sprinkler Output Data

Flowing Sprinkler Node No.	Area Group Code	Sprinkler KFactor (K)	Sprinkler Elevation (feet)	Residual Pressure (psi)	Flowing Area (ft²)	Flowing Density (gpm/ft²)	Sprinkler Discharge (gpm)
1		4.90	81.00	7.60	100.00	0.135	13.51
Sub Totals For Non-Group					100.00	0.135	13.51
2		4.90	81.00	7.77	100.00	0.137	13.66
Sub Totals For Non-Group					100.00	0.137	13.66
3		4.90	81.00	9.90	100.00	0.154	15.42
Sub Totals For Non-Group					100.00	0.154	15.42
4		4.90	81.00	9.76	20.00	0.765	15.31
Sub Totals For Non-Group					20.00	0.765	15.31
Totals For All Groups					320.00	0.181	57.89

Fire Sprinkler Output Summary

Hydraulically Most Demanding Sprinkler Node

HMD Sprinkler Node Number: 1
HMD Actual Residual Pressure: 7.60 psi
HMD Actual GPM: 13.51 gpm

Sprinkler Summary

Sprinkler System Type: Wet
Specified Area Of Application: 320.00 ft²
Minimum Desired Density: 0.100 gpm/ft²
Application Average Density: 0.181 gpm/ft²
Application Average Area Per Sprinkler: 80.00 ft²
Sprinkler Flow: 57.89 gpm
Average Sprinkler Flow: 14.47 gpm

Flow Velocity And Imbalance Summary

Maximum Flow Velocity (In Pipe 11 - 12) 12.42 ft/sec
Maximum Velocity Pressure (In Pipe 11 - 12) 1.04 psi

Allowable Maximum Nodal Pressure Imbalance: 0.0100 psi
Actual Maximum Nodal Pressure Imbalance: 0.0068 psi
Actual Average Nodal Pressure Imbalance: 0.0011 psi
Actual Maximum Nodal Flow Imbalance: -3.3429 gpm
Actual Average Nodal Flow Imbalance: 0.4021 gpm

Overall Network Summary

Number Of Unique Pipe Sections: 16
Number Of Flowing Sprinklers: 4

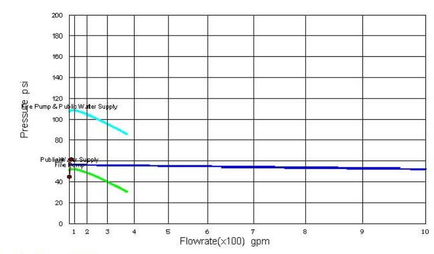
Pipe System Water Volume: 195.88 gal

Sprinkler Flow: 57.89 gpm
Non-Sprinkler Flow: 0.00 gpm

Minimum Required Residual Pressure At System Inflow Node: 61.48 psi
Demand Flow At System Inflow Node: 57.89 gpm

Fire Sprinkler Output Data

Hydraulic Supply/Demand Graph



Supply Curve Data
Static Pressure: 56 psi
Test Residual Pressure: 55 psi
Test Flow Rate: 500 gpm

Pump Curve Data (PUMP 250 GPM @ 45 PSI)

Flow (gpm) 1:	0.00	Pressure (psi) 1:	51.00
Flow (gpm) 2:	250.00	Pressure (psi) 2:	45.00
Flow (gpm) 3:	375.00	Pressure (psi) 3:	30.00
Flow (gpm) 4:	0.00	Pressure (psi) 4:	0.00
Flow (gpm) 5:	0.00	Pressure (psi) 5:	0.00

Demand Curve Data
Calculated Residual Pressure: 61.48 psi
Calculated Flow Rate: 57.89 gpm
Excess Available Residual Pressure At Calculated Flow: 46.96 psi
Pressure Required For First Sprinkler Downstream From Inflow Node To Flow: 44.94 psi

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isacstern.com issacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com	1035 FULTON STREET Brooklyn, New York 11238	HYDRAULIC CALCULATION RESIDENTIAL SCALE: AS SHOWN	1. 2. 3. 4. 5.		SPR 009.00

STATE OF NEW YORK · BORIS LEVIN · 072390 · LICENSED PROFESSIONAL ENGINEER

FIRST FLOOR RETAIL AREA
Fire Sprinkler Reports

for

RESIDENTIAL BLDG
1035 FULTON STREET
BROOKLYN, NY

Prepared By:

I.B.
LEVIN ENGINEERING PLLC
28 DOOLEY STREET
BROOKLYN NY 11235

7/18/13

General Project Data Report

General Data

Project Title:	FIRST FLOOR RETAIL AREA	Project File Name:	1312_2.TMP
Designed By:	I.B.	Date:	7/18/13
Code Reference:	NFPA 13.	Approving Agency:	NYC BD
Client Name:	RESIDENTIAL BLDG	Phone:	
Address:	1035 FULTON STREET	City, State Zip Code:	BROOKLYN, NY
Company Name:	LEVIN ENGINEERING PLLC	Representative:	LEVIN ENGINEERING PLLC
Company Address:	28 DOOLEY STREET	City And State:	BROOKLYN NY 11235
Phone:			
Building Name:		Building Owner:	
Contact at Building:		Phone at Building:	
Address Of Building:		City, State Zip Code:	

Project Data

Description Of Hazard:	Ordinary 2	Sprinkler System Type:	Wet
Design Area Of Water Application:	950 ft²	Maximum Area Per Sprinkler:	100 ft²
Default Sprinkler K-Factor:	5.60 K	Default Pipe Material:	SCHED 40 WET STEEL
Inside Hose Stream Allowance:	0.00 gpm	Outside Hose Stream Allowance:	250.00 gpm
In Rack Sprinkler Allowance:	0.00 gpm		
Sprinkler Specifications			
Make:	RELIABLE	Model:	F1FR
Size:	1/2	Temperature Rating:	155 F
Fire Pump 250 GPM @ 45 PSI			

Water Supply Test Data

Source Of Information:	NYC EP		
Test Hydrant ID:		Date Of Test:	3/18/13
Hydrant Elevation:	0 ft	Static Pressure:	56.00 psi
Test Flow Rate:	500.00 gpm	Test Residual Pressure:	55.00 psi
Calculated System Flow Rate:	259.43 gpm	Calculated Inflow Residual Pressure:	66.42 psi
Available Residual Pressure At System Flow:	99.85 psi		

Calculation Project Data

Calculation Mode:	Demand		
HMD Minimum Residual Pressure:	7.60 psi	Minimum Desired Flow Density:	0.20 gpm/ft²
Number Of Active Nodes:	35		
Number Of Active Pipes:	34	Number Of Inactive Pipes:	0
Number Of Active Sprinklers:	11	Number Of Inactive Sprinklers:	0

Fire Sprinkler Output Data

Group Peak Pipe Output Data

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
1	5.60	11.00	20.00	12.76	1.00	20.00	0.13019	11.50	2.148
20	0.00	11.00	0.00	14.90	1.049	20.00	T	5.00	0.000
	SCHED 40 WET STEEL				120	7.42	0	16.50	2.148
2	5.60	11.00	20.94	13.98	1.00	20.94	0.14173	1.50	0.921
20	0.00	11.00	0.00	14.90	1.049	20.94	T	5.00	0.000
	SCHED 40 WET STEEL				120	7.77	0	6.50	0.921
3	5.60	11.00	23.60	17.76	1.00	23.60	0.17685	1.50	0.619
21	0.00	11.00	0.00	18.38	1.049	23.60	E	2.00	0.000
	SCHED 40 WET STEEL				120	8.76	0	3.50	0.619
4	5.60	11.00	22.24	15.77	1.00	22.24	0.15840	11.50	2.614
21	0.00	11.00	0.00	18.38	1.049	22.24	T	5.00	0.000
	SCHED 40 WET STEEL				120	8.26	0	16.50	2.614
20	0.00	11.00	0.00	14.90	1.00	0.00	0.48997	6.50	5.635
22	0.00	11.00	0.00	20.54	1.049	40.94	T	5.00	0.000
	SCHED 40 WET STEEL				120	15.20	0	11.50	5.635
21	0.00	11.00	0.00	18.38	1.00	0.00	0.60393	3.57	2.156
22	0.00	11.00	0.00	20.54	1.049	45.84	-----	0.00	0.000
	SCHED 40 WET STEEL				120	17.02	0	3.57	2.156
5	5.60	11.00	22.07	15.54	1.00	22.07	0.15624	11.82	2.628
23	0.00	11.00	0.00	18.16	1.049	22.07	T	5.00	0.000
	SCHED 40 WET STEEL				120	8.19	0	16.82	2.628
6	5.60	11.00	23.42	17.50	1.00	23.42	0.17441	1.82	0.666
23	0.00	11.00	0.00	18.16	1.049	23.42	E	2.00	0.000
	SCHED 40 WET STEEL				120	8.70	0	3.82	0.666
22	0.00	11.00	0.00	20.54	1.50	0.00	0.24420	10.33	4.476
24	0.00	11.00	0.00	25.01	1.610	86.78	T	8.00	0.000
	SCHED 40 WET STEEL				120	13.88	0	18.33	4.476
23	0.00	11.00	0.00	18.16	1.00	0.00	0.59565	6.50	6.850
24	0.00	11.00	0.00	25.01	1.049	45.50	T	5.00	0.000
	SCHED 40 WET STEEL				120	16.89	0	11.50	6.850
7	5.60	11.00	27.81	24.66	1.00	27.81	0.23958	1.82	0.915
25	0.00	11.00	0.00	25.58	1.049	27.81	E	2.00	0.000
	SCHED 40 WET STEEL				120	10.32	0	3.82	0.915
24	0.00	11.00	0.00	25.01	2.00	0.00	0.15775	3.57	0.563
25	0.00	11.00	0.00	25.58	2.067	132.28	-----	0.00	0.000
	SCHED 40 WET STEEL				120	12.65	0	3.57	0.563

Fire Sprinkler Output Data

Group Peak Pipe Output Data

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
25	0.00	11.00	0.00	25.58	2.00	0.00	0.22455	4.00	0.898
26	0.00	11.00	0.00	26.48	2.067	160.09	-----	0.00	0.000
	SCHED 40 WET STEEL				120	15.31	0	4.00	0.898
27	0.00	11.00	0.00	26.06	1.50	0.00	0.02950	6.00	0.413
26	0.00	11.00	0.00	26.48	1.610	27.69	T	8.00	0.000
	SCHED 40 WET STEEL				120	4.36	0	14.00	0.413
8	5.60	11.00	27.69	24.44	1.00	27.69	0.23760	1.82	1.620
27	0.00	11.00	0.00	26.06	1.049	27.69	T	5.00	0.000
	SCHED 40 WET STEEL				120	10.28	0	6.82	1.620
9	5.60	11.00	22.23	15.75	1.00	22.23	0.15827	11.50	2.137
28	0.00	11.00	0.00	17.89	1.049	22.23	E	2.00	0.000
	SCHED 40 WET STEEL				120	8.25	0	13.50	2.137
10	5.60	11.00	22.95	16.80	1.00	22.95	0.16796	1.50	1.092
28	0.00	11.00	0.00	17.89	1.049	22.95	T	5.00	0.000
	SCHED 40 WET STEEL				120	8.52	0	6.50	1.092
11	5.60	11.00	26.47	22.35	1.00	26.47	0.21871	1.50	1.422
29	0.00	11.00	0.00	23.77	1.049	26.47	T	5.00	0.000
	SCHED 40 WET STEEL				120	9.83	0	6.50	1.422
28	0.00	11.00	0.00	17.89	1.00	0.00	0.58796	10.00	5.880
29	0.00	11.00	0.00	23.77	1.049	45.18	-----	0.00	0.000
	SCHED 40 WET STEEL				120	16.77	0	10.00	5.880
26	0.00	11.00	0.00	26.48	2.50	0.00	0.09247	10.00	0.925
30	0.00	11.00	0.00	27.40	2.635	187.77	-----	0.00	0.000
	SCHED 10 WET STEEL				120	11.05	0	10.00	0.925
29	0.00	11.00	0.00	23.77	1.25	0.00	0.36298	4.00	3.630
30	0.00	11.00	0.00	27.40	1.380	71.65	T	6.00	0.000
	SCHED 40 WET STEEL				120	15.37	0	10.00	3.630
30	0.00	11.00	0.00	27.40	2.50	0.00	0.16815	40.50	6.810
31	0.00	11.00	0.00	34.21	2.635	259.43	-----	0.00	0.000
	SCHED 10 WET STEEL				120	15.26	0	40.50	6.810
31	0.00	11.00	0.00	34.21	3.00	0.00	0.05964	46.00	7.515
32	0.00	11.00	0.00	41.72	3.260	259.43	4T	80.00	0.000
	SCHED 10 WET STEEL				120	9.97	0	126.00	7.515
32	0.00	11.00	0.00	41.72	4.00	0.00	0.01621	29.00	0.891
33	0.00	11.00	0.00	42.62	4.260	259.43	T	26.00	0.000
	SCHED 10 WET STEEL				120	5.84	0	55.00	0.891

Fire Sprinkler Output Data

Group Peak Pipe Output Data

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
33	0.00	11.00	0.00	42.62	4.00	0.00	0.01621	10.50	0.592
34	0.00	11.00	0.00	43.21	4.260	259.43	T	26.00	0.000
	SCHED 10 WET STEEL				120	5.84	0	36.50	0.592
34	0.00	11.00	0.00	43.21	4.00	0.00	0.01621	6.00	1.199
35	0.00	11.00	0.00	44.41	4.260	259.43	2ETB	68.00	0.000
	SCHED 10 WET STEEL				120	5.84	0	74.00	1.199
35	0.00	11.00	0.00	44.41	4.00	0.00	0.01621	12.00	0.405
90	0.00	-2.00	0.00	50.44	4.260	259.43	E	13.00	5.629
	SCHED 10 WET STEEL				120	5.84	0	25.00	6.034
90	0.00	-2.00	0.00	50.44	4.00	0.00	0.01621	42.00	1.734
94	0.00	-5.00	0.00	53.47	4.260	259.43	5E	65.00	1.299
	SCHED 10 WET STEEL				120	5.84	0	107.00	3.033
94	ACV	-5.00		53.47		259.43			
95	1.00 psi	-5.00		54.48					
95	0.00	-5.00	0.00	54.48	4.00	0.00	0.01621	8.00	0.972
96	0.00	-8.00	0.00	56.75	4.260	259.43	2ET	52.00	1.299
	SCHED 10 WET STEEL				120	5.84	0	60.00	2.271
96	Fire Pump, Boost Ignored	-8.00		56.75		259.43			
97		-8.00		56.75					
97	0.00	-8.00	0.00	56.75	4.00	0.00	0.01621	55.00	2.155
98	0.00	-8.00	0.00	58.90	4.260	259.43	6E	78.00	0.000
	SCHED 10 WET STEEL				120	5.84	0	133.00	2.155
98	Backflo Prev	-8.00		58.90		259.43			
99	8.00 psi	-8.00		66.91					
99	0.00	-8.00	0.00	66.91	4.00	0.00	0.01995	50.00	2.112
100	0.00	-2.00	0.00	66.42	3.850	259.43	2ETG	55.90	-2.598
	CAST IRON, CEMENT				140	7.15	0	105.90	-0.486

Fire Sprinkler Output Data

Group Peak Sprinkler Output Data

Flowing Sprinkler Node No.	Area Group Code	Sprinkler KFactor (K)	Sprinkler Elevation (feet)	Residual Pressure (psi)	Flowing Area (ft²)	Flowing Density (gpm/ft²)	Sprinkler Discharge (gpm)
1		5.60	11.00	12.76	100.00	0.200	20.00
Sub Totals For Non-Group					100.00	0.200	20.00
2		5.60	11.00	13.98	100.00	0.209	20.94
Sub Totals For Non-Group					100.00	0.209	20.94
3		5.60	11.00	17.76	100.00	0.236	23.60
Sub Totals For Non-Group					100.00	0.236	23.60
4		5.60	11.00	15.77	100.00	0.222	22.24
Sub Totals For Non-Group					100.00	0.222	22.24
5		5.60	11.00	15.54	100.00	0.221	22.07
Sub Totals For Non-Group					100.00	0.221	22.07
6		5.60	11.00	17.50	100.00	0.234	23.42
Sub Totals For Non-Group					100.00	0.234	23.42
7		5.60	11.00	24.66	100.00	0.278	27.81
Sub Totals For Non-Group					100.00	0.278	27.81
8		5.60	11.00	24.44	100.00	0.277	27.69
Sub Totals For Non-Group					100.00	0.277	27.69
9		5.60	11.00	15.75	100.00	0.222	22.23
Sub Totals For Non-Group					100.00	0.222	22.23
10		5.60	11.00	16.80	100.00	0.230	22.95
Sub Totals For Non-Group					100.00	0.230	22.95
11		5.60	11.00	22.35	100.00	0.265	26.47
Sub Totals For Non-Group					100.00	0.265	26.47
Totals For All Groups					1100.00	0.236	259.43

Fire Sprinkler Output Summary

Hydraulically Most Demanding Sprinkler Node

HMD Sprinkler Node Number:	1	
HMD Actual Residual Pressure:	12.76	psi
HMD Actual GPM:	20.00	gpm

Sprinkler Summary

Sprinkler System Type:	Wet	
Specified Area Of Application:	950.00	ft²
Minimum Desired Density:	0.200	gpm/ft²
Application Average Density:	0.273	gpm/ft²
Application Average Area Per Sprinkler:	86.36	ft²
Sprinkler Flow:	259.43	gpm
Average Sprinkler Flow:	23.58	gpm

Flow Velocity And Imbalance Summary

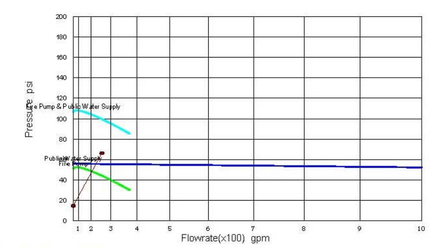
Maximum Flow Velocity (In Pipe 21 - 22):	17.02	ft/sec
Maximum Velocity Pressure (In Pipe 21 - 22)	1.95	psi
Allowable Maximum Nodal Pressure Imbalance:	0.0100	psi
Actual Maximum Nodal Pressure Imbalance:	0.0000	psi
Actual Average Nodal Pressure Imbalance:	0.0000	psi
Actual Maximum Nodal Flow Imbalance:	0.0000	gpm
Actual Average Nodal Flow Imbalance:	0.0000	gpm

Overall Network Summary

Number Of Unique Pipe Sections:	34	
Number Of Flowing Sprinklers:	11	
Pipe System Water Volume:	191.95	gal
Sprinkler Flow:	259.43	gpm
Non-Sprinkler Flow:	0.00	gpm
Minimum Required Residual Pressure At System Inflow Node:	66.42	psi
Demand Flow At System Inflow Node:	259.43	gpm

Fire Sprinkler Output Data

Hydraulic Supply/Demand Graph



Supply Curve Data
Static Pressure: 56 psi
Test Residual Pressure: 55 psi
Test Flow Rate: 500 gpm

Pump Curve Data (PUMP 250 GPM @ 45 PSI)

Flow (gpm) 1:	0.00	Pressure (psi) 1:	51.00
Flow (gpm) 2:	250.00	Pressure (psi) 2:	45.00
Flow (gpm) 3:	375.00	Pressure (psi) 3:	30.00
Flow (gpm) 4:	0.00	Pressure (psi) 4:	0.00
Flow (gpm) 5:	0.00	Pressure (psi) 5:	0.00

Demand Curve Data
Calculated Residual Pressure: 66.42 psi
Calculated Flow Rate: 259.43 gpm
Excess Available Residual Pressure At Calculated Flow: 33.43 psi
Pressure Required For First Sprinkler Downstream From Inflow Node To Flow: 1.463 psi

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/03/2014
NYC Development Hub

OWNER / DEVELOPER	ARCHITECT:	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:	SEAL	DRAWING NO:
FULTON TRIANGLE LLC 936 Fulton Street Brooklyn, NY 11238	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St, 9th Floor New York NY 10001 212-268-5600 Info@iissacstern.com iissacstern.com	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1201 New York, NY 10010 (212) 982-1410	LEVIN ENGINEERING Engineering and Inspection Services 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 tel: 718-332-2266, fax: 718-332-2274 blevin@levin-engineering.com STATE OF NEW YORK · BORIS LEVIN · 073390 · LICENSED PROFESSIONAL ENGINEER	1035 FULTON STREET Brooklyn, New York 11238	HYDRAULIC CALCULATION ORDINARY2 SCALE: AS SHOWN	1. 2. 3. 4. 5.		SPR 010.00

GENERAL NOTES

1. THE STRUCTURAL PLANS AND SPECIFICATIONS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK, LATEST EDITION.
2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK, LATEST EDITION AND ALL APPLICABLE FEDERAL AND STATE CODES, STANDARDS, REGULATIONS, AND LAWS.
3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMIT.
4. WORK NOT INDICATED ON PART OF THE DRAWINGS BUT REASONABLE IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
5. IF ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.
7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITIES LINES FROM ANY DAMAGE.
8. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. DRAWINGS ARE NOT TO BE SCALED.
10. ALL SHORING AND BRACING WORK SHALL BE DESIGNED AND FILED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR.
11. NYC BUILDING DEPARTMENT FORMS TR-1 & PW-1 WILL BE FILED BY SUPERVISING ENGINEER OF CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
12. ITEMS REQUIRED CONTROLLED INSPECTION ARE: STABILITY, SHOP AND FIELD WELDS, HS BOLTS AND SHORING. SHORING CONTROLLED INSPECTION SHALL BE PROVIDED BY A LICENSED NEW YORK STATE ENGINEER RETAINED BY CONTRACTOR.

FOUNDATION NOTES

1. SPREAD FOOTINGS WITH BOTTOM ELEVATION BELOW 10 FT. ARE DESIGNED USING AN ALLOWABLE BEARING VALUE OF 3-T/SF AS PER REPORT PREPARED BY SOIL MECHANICS DRILLING CORP., DATED FEB. 7, 2013.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT WHEN THE EXCAVATION HAS BEEN STARTED SO THAT GROUND WATER CONDITION CAN BE REVIEWED.
3. NO BACKFILLING AGAINST FOUNDATION WALLS IS TO BE DONE UNTIL AFTER THE SUPERSTRUCTURE IS IN PLACE, UNLESS ADEQUATE BRACING IS INSTALLED PRIOR TO BACKFILLING.
4. WHERE ELEVATIONS CHANGE, FOOTINGS SHALL BE STEPPED ONE VERTICAL TO TWO HORIZONTAL EXCEPT AS OTHERWISE SHOWN. MAXIMUM STEP TO BE 1'-6".
5. CONSTRUCTION JOINTS IN CONCRETE FOUNDATION WALLS, INTERIOR AND EXTERIOR SHALL BE PLACED NOT MORE THAN 50 FEET APART. LOCATION OF JOINTS SHALL BE SHOWN ON DRAWINGS OR APPROVED BY THE ENGINEER. SECTIONS OF WALLS SHALL BE POURED ALTERNATELY.
6. ALL WALL AND PIERFOOTINGS SHALL BE 12" THICK AND PROJECT 6" BEYOND ALL FACES OF WALLS AND PIERS UNLESS NOTED OTHERWISE.
7. LABS ON GROUND SHALL BE POURED IN A CHECKER BOARD PATTERN WITH A MAXIMUM AREA OF 1600 SQUARE FEET. JOINTS SHALL BE KEYED AND REINFORCEMENT CONTINUOUS.
8. WHERE FILL IS REQUIRED UNDER SLAB ON GROUND, IT SHALL BE COMPOSED OF WELL GRADED MATERIAL CONFORMING TO JOB SPECIFICATIONS, PLACED IN 6" LAYERS; EACH LAYER TO BE MECHANICALLY COMPACTED TO 95% MOISTURE CONTENT AS DETERMINED BY PROCTOR TESTS. COMPACTION OF SUBGRADE TO BE VERIFIED IN FIELD BY QUALIFIED SOILS LAB REPRESENTATIVE DESIGNATED BY OWNER. ALL COMPACTION TO BE PER ASTM D 1557 AND AASHTO DESIGNATION T-180, METHOD 'C'.
9. FOOTING SUBGRADE IS SUBJECT TO INSPECTION BY THE SOILS ENGINEER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.
11. METHODS EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW YORK.
12. GROUND WATER TABLE STARTS AT 65 FEET BELOW GROUND SURFACE.
13. IF DE-WATERING INTO A NEW YORK CITY STORM/SEWER DRAIN IS REQUIRED DURING THE PROJECT, A NEW YORK CITY DEPARMENT SEWER DISCHARGE PERMIT WILL BE OBTAINED PRIOR TO THE START OF DE-WATERING ACTIVITIES.

REINFORCED CONCRETE NOTES

1. 1. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM TO ACI-318-08 "AMERICAN CONCRETE INSTITUTE, BUILDING CODE FOR REINFORCED CONCRETE." DETAILS SHALL BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS OTHERWISE NOTED ON THE DRAWINGS AND THE PROVISIONS OF THE NEW YORK CITY BUILDING CODE.
2. 2.CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS U.O.N. ON PLAN AND SHALL BE NORMAL WEIGHT CONCRETE
   i) FOOTINGS AND FOUNDATION WALLS: 5000 PSI.
   ii) FOOTING FOR SHEER WALLS: 5000
   iii) FLAT PLATE SLAB, BEAMS, SHEAR WALLS: 5000 PSI
   iv) COLUMNS: 5000 PSI
3. ALL EXPOSED CONCRETE SHALL HAVE AN AIR ENTRAINING AGENT.
4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CHAIR OR LIFT WIRE FABRIC DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB.
6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
7. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWING WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS. ALL REINFORCING BARS SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE SCHEDULE ON DRAWING S-14. LAP WALL TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN. LAP WALL BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT. LAP INSIDE FACE WALL VERTICAL REINFORCEMENT AT SUPPORT. LAP OUTSIDE FACE VERTICAL WALL REINFORCEMENT AT MID HEIGHT OF WALL. UNLESS OTHERWISE NOTED TERMINATE CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.
8. MINIMUM CONCRETE COVER SHALL BE 3/4 INCH FOR SLABS, 1 INCH FOR WALLS AND 1-1/2 INCHES FOR COLUMNS. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 1 INCH FOR SLABS ON GRADE AND WALLS. ALL CONCRETE EXPOSED TO WEATHER OR EARTH SHALL HAVE MINIMUM CONCRETE COVER OF 2 INCHES FOR BARS LARGER THAN #5, 1-1/2 INCHES FOR #5 BARS OR SMALLER. FOR ALL CONCRETE CAST AGAINST EARTH PROVIDE 3 INCHES COVER. ALL CONCRETE PLACED AGAINST PERMANENT SHEETING SHALL HAVE 4 INCHES COVER.
9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318, CHAPTER 6.4. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR THE STRUCTURAL ENGINEER'S REVIEW.
10. 10.CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING INTENDED PLACEMENT SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT FOR APPROVAL. WALL CONSTRUCTION JOINTS SHALL BE LOCATED SO AS TO PROVIDE A 60 FOOT MAXIMUM LENGTH OF CONCRETE PLACEMENT.
11. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER AND SHALL BE LOCATED AT LEAST EIGHT FEET FROM ANY COLUMN LINE OR WALL OPENING FOR FOUNDATION WALLS.
12. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
13. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
14. THE GENERAL CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE.
15. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4 INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS.
16. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS ETC. AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
17. FOR LOCATION OF FLOOR DRAINS, CURBS, CONCRETE PADS AND FLOOR DEPRESSIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. ALL CONCRETE PADS AND FILL SLABS SHALL BE 3000 PSI LIGHTWEIGHT CONCRETE, WITH A MAXIMUM WEIGHT OF 115 LBS. PER CU. FT., REINFORCED WITH WWF 6x6-W1.4xW1.4 MINIMUM, PLACED 1" CLEAR FROM TOP, UNLESS CALLED OUT OTHERWISE ON THE ARCHITECTURAL, MECHANICAL OR STRUCTURAL DRAWINGS.
18. COORDINATE LOCATION OF SLOTTED INSERTS, WELDED PLATES, AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
19. CONTRACTOR SHALL USE RIGID TEMPLATES TO INSTALL ANCHOR BOLTS.
20. PIPES OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 X THE DIAMETER ON CENTER. PIPES AND CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN THE SLAB WITHIN 12 INCHES OF ANY COLUMN FACE.
21. CONTRACTOR SHALL COORDINATE SLAB DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS.
22. BAR LENGTHS INDICATED ON PLAN DO NOT INCLUDE HOOKS OR BENDS UNLESS NOTED OTHENISE. 23.KEYS IN ALL WALLS 12" OR SMALLER TO BE 2"x4"

FLOOR LOADS:

A. ROOF BULKHEAD

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION & WATERPROOFING	20 PSF
MECHANICAL	30 PSF
	150 PSF
LL:	
ROOF	40 PSF

B. ROOF

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION & WATERPROOFING	20 PSF
PAVERS	25 PSF
	145 PSF
LL:	
TERRACE, STAIR & EXIT	100 PSF

C. 2ND TO 7TH FLR.

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION & WATERPROOFING	20 PSF
	120 PSF
PAVERS	25 PSF
LL:	
BALCONY, TERRACE, STAIR & EXIT	100 PSF

D. 1ST FLR.

DL:	
8" CONC. SLAB	100 PSF
FIN., CEILING, INSULATION PARTITIONS	25 PSF
	125 PSF
LL:	
COMMERCIAL, STAIR & EXIT	100 PSF

E. CELLAR

DL:	
4" CONC. SLAB	50 PSF
PARTITIONS	10 PSF
LL:	
CELLAR, STAIR & EXIT	100 PSF
EXTERIOR WALLS:	
8" CMU + 2" RIGID INSULATION + 4"BRICK	84 PSF
8" CMU + 2" RIGID INSULATION + STUCCO	54 PSF

LATERAL LOADS:

A. WIND LOAD (PER NYCBC 08)

STRUCTURAL FRAME	20 PSF
COMPONENTS AND CLADDING WALLS	30 PSF

WIND SHALL BE ASSUMED TO ACT FROM ANY DIRECTION. FACTOR OF SAFETY AGAINST SLIDING OR OVERTURNING DUE TO WIND ≥ 1.5. RESISTED BY THE DEAD LOAD OF THE STRUCTURE

B. SEISMIC LOAD (PER NYCBC 08)

SITE CLASS	D
IMPORTANCE FACTOR, I	1.0
OCCUPANCY CATEGORY	II
STRUCTURAL SYSTEM, R	5 (ORDINARY REINFORCED CONCRETE SHEAR WALL)
SITE COEFFICIENT Ss	0.365
SITE COEFFICIENT S1	0.071
SITE COEFFICIENT Fa	1.51
SITE COEFFICIENT Fv	2.4
FUNDAMENTAL PERIOD Ta	4.12 SEC
SEISMIC BASE SHEAR	144 KIPS

BC 28.2-1627.2 REQUIREMENTS:

1. STRUCTURAL OCCUPANCY CATEGORY AND MORE THAN 50,000 SF FRAMED AREA: SEE SEISMIC LOAD OCCUPANCY CATEGORY ABOVE.
2. BUILDINGS WITH ASPECT RATIO OF 7 OR MORE:

$$\text{ASPECT RATIO} = \frac{H\ (\text{bulkhead})}{W\ (\text{bldg})} = \frac{83.60\ \text{FT}}{43.00\ \text{FT}} = 1.94 < 7.00$$

3. BUILDING GREATER THAN 600 FEET (183M) IN HEIGHT OR MORE THAN 1,000,000 SF (92,903 SM) IN GROSS FLR AREA:

   TOTAL BUILDING HEIGHT = 83.60 FT
   TOTAL GROSS BUILDING AREA =33,732 SF

   NOT DESIGNED FOR NON-LINEAR TIME HISTORY ANALYSIS NOR WITH SPECIAL SEISMIC
5. BUILDINGS DESIGNED USING NON-LINEAR TIME HISTORY ANALYSIS OR WITH SPECIAL SEISMIC ENERGY DISSIPATION SYSTEMS.

   ENERGY DISSIPATION SYSTEM
6. BUILDINGS WHERE A STRUCTURAL PEER REVIEW IS REQUESTED BY THE COMMISSIONER.

   COMMISSIONER DID NOT REQUEST FOR PEER REVIEW

DRAWING LIST

S-000.00	GENERAL NOTES
EXCAVATION	
SOE-000.00	EXCAVATION NOTES
SOE-100.00	EXCAVATION PLAN
SOE-101.00	EXCAVATION SECTION AND DETAILS
FOUNDATION	
FO-100.00	CELLAR/FOUNDATION FRAMING PLAN
FO-101.00	FOUNDATION TYPICAL DETAILS
FO-102.00	FOUNDATION SECTION AND DETAILS
FO-103.00	FOUNDATION DETAILS
FRAMING PLAN	
S-100.00	1ST FLOOR FRAMING PLAN
S-101.00	2ND FLOOR FRAMING PLAN
S-102.00	3RD - 6TH FLOOR FRAMING PLAN
S-103.00	7TH FLOOR FRAMING PLAN
S-104.00	ROOF FLOOR FRAMING PLAN
S-105.00	BULKHEAD FRAMING PLAN
COLUMN SCHEDULES	
S-200.00	SHEAR DETAILS, COLUMN SCHEDULE, TABLES AND DETAILS
DETAILS	
S-300.00	TYPICAL DETAILS
S-301.00	TYPICAL DETAILS
S-302.00	TYPICAL DETAILS
S-303.00	SECTION AND DETAILS

SPECIAL INSPECTION ITEMS

ITEMS	CODE/ SECTION
CONCRETE - CAST-IN-PLACE	BC 1704.4
SOILS- INVESTIGATION (BORING/TEST PITS)	BC1704.7.4
CONCRETE TEST CYLINDER	BC 1905.6
CONCRETE DESIGN MIX	BC 1905.3
UNDERPINNING	BC 1704.10

3

PROGRESS INSPECTION ITEM

ITEMS	CODE/ SECTION
FOOTING AND FOUNDATION	BC 109.3.1

FOUNDATION UNDERPINNING NOTES

1. CONCRETE UNDERPINNING TO BE PERFORMED USING "ALTERNATE PIT" METHOD SO THAT ADEQUATE SUPPORT IS MAINTAINED UNDER EXISTING FOOTINGS. EXCAVATE AND POUR CONCRETE UNDERPINNING FOR PITS "A". AFTER CONCRETE ATTAINS 75% OF DESIGN STRENGTH, PRE-LOAD UNDERPINNING PIER (SEE PRE-LOADING PROCEDURE) PACK 3" DRYPACK INTO SPACE BETWEEN TOP OF UNDERPINNING AND BOTTOM OF EXISTING FOOTING TO TRANSFER LOAD. REPEAT PROCEDURE FOR PITS "B", "C" & "D".
2. TRANSFER OF FOUNDATION LOADS SHALL BE ACCOMPLISHED BY THE USE OF PRE-LOADING. STEEL PLATES AND WEDGES NO SOONER THAN 24 HOURS AFTER PLACEMENT OF CONCRETE FOR THE UNDERPINNING PIERS. AFTER THE BUILDING LOAD IS TRANSFERRED TO THE UNDERPINNING PIER, THE SPACE BETWEEN THE BOTTOM OF FOOTING AND TOP OF UNDERPINNING PIER SHALL BE FILLED WITH NON-SHRINK GROUT (5,000 PSI MIN) WITH A CONSISTENCY TO ALLOW A "DRY-PACK" TYPE INSTALLATION. DRY-PACK SHALL CONSIST OF ONE PART CEMENT AND TO TWO PARTS SAND BY VOLUME. WATER SHALL BE ADDED TO PRODUCE A MIXTURE WHICH HOLDS ITS SHAPE WHEN FORMED IN A BALL BY HAND, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE BUILDING FOUNDATION LOADS PROPERLY TRANSFER TO THE UNDERPINNING. UNDERPINNING PIERS SHALL BE CARRIED DOWN TO ELEVATIONS SHOWN ON DRAWINGS OR SUITABLE SOIL, WHICHEVER IS DEEPER (UNLESS ROCK IS ENCOUNTERED)
3. EXCAVATION FOR UNDERPINNING PIERS SHALL BE COMPLETED BY HAND IN SHORED PITS AS SHOWN ON THE DETAILS. UNDERPINNING PITS TO BE TIGHT SHEETED USING HORIZONTAL WOOD RING SHEETING WHERE DEPTH OF EXCAVATION EXCEEDS FIVE FEET. ALL TIMBER SHEETING SHALL BE SOUTHERN PINE #2 OR BETTER AND SHALL BE A FULL 3 INCHES THICK (NOT DRESSED) WITH MIN. Fb OF 1,150 PSI.
4. UNDERPINNING SECTIONS TO BE A MAX. OF 4 FOOT WIDE. OPEN PITS TO BE SEPARATED BY AT LEAST 12 FEET. (UNLESS OTHERWISE NOTED)
5. UNDERPINNING TO MATCH EXISTING FOUNDATION WALL, FOOTING, GRADE BEAM OR PILE CAP IN THICKNESS W/ A MIN. THICKNESS OF 36" (UNLESS OTHERWISE NOTED)
6. THE UNDERPINNING SPECIAL INSPECTION ENGINEER SHALL INSPECT THE EXISTING CONDITIONS AND ALL BORINGS TO DETERMINE THE NECESSITY OF ADDITIONAL PRE LOADING AND/OR JACKING OF THE EXISTING ADJACENT STRUCTURES DUE TO UNFAVORABLE SOIL CONDITIONS PRIOR TO BEGINNING ANY UNDERPINNING OPERATIONS.
7. UNDERPINNING DESIGN ASSUMES THAT MINIMUM SOIL BEARING CAPACITY ON SITE IS 2 TSF (4,000 PSF) WITH WELL COMPACTED SUITABLE SOIL AT BOTTOM OF UNDERPINNING GRADES.
8. CONTRACTOR SHALL DRILL AND GROUT #4 REBAR @ 12" O.C. INTO BOTTOM OF EXISTING CONCRETE FOOTINGS W/ A MINIMUM EMBEDMENT DEPTH OF 12" INTO FOOTING, GRADE BEAM OR PILE CAP AND 12" INTO PROPOSED UNDERPINNING (UNLESS OTHERWISE NOTED / SHOWN - SEE TYPICAL UNDERPINNING DETAILS AND SECTIONS FOR STEEL REINFORCEMENT REQUIREMENTS)
9. THE OWNER SHALL RETAIN A NYS LICENSED SURVEYOR TO SET A MINIMUM OF (3) HORIZONTAL AND (3) VERTICAL CONTROL POINTS FOR EACH BUILDING / SECTION TO BE UNDERPINNED. THE SURVEYOR SHALL CHECK THE DATUM OF THESE STRUCTURES AS REQUIRED BEFORE CONSTRUCTION, DAILY DURING CONSTRUCTION AND AFTER CONSTRUCTION OPERATIONS.
10. IF, UPON EXCAVATION, THE ADJACENT FOUNDATIONS TO BE UNDERPINNED ARE FOUND TO BE IN EXTREMELY POOR CONDITION BY THE SPECIAL/PROGRESS INSPECTION ENGINEER OF RECORD, HE SHALL NOTIFY ENGINEERING GROUP ASSOCIATES PC WHERE THE CONTRACTOR SHALL BE DIRECTED TO REDUCE THE WIDTH OF THE PINS AND/OR BRACE THE FOUNDATION AS REQD.
11. BOTTOM OF EXISTING ADJACENT FOOTING ELEVATION IS ESTIMATED AND BASED ON INFORMATION PROVIDED BY LIMITED VISUAL SITE INSPECTIONS, BUILDING WALK-THRUS AND / OR INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF DESIGN.
12. AS DIRECTED BY THE DESIGN ENGINEER AND / OR GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A GROUTING CONTRACTOR TO STABILIZE SOIL PRIOR TO EXCAVATION IN THE EVENT THAT SOILS IN THE AREA OF UNDERPINNING WORK ARE FOUND TO BE LOOSE, MAKING THE INSTALLATION OF THE HORIZONTAL TIMBER SHEETING DIFFICULT.
13. CONTRACTOR AND / OR SUBCONTRACTOR SHALL HAVE COMPLETED NO LESS THAN FIVE (5) UNDERPINNING PROJECTS OF A COMPARABLE SIZE AND TYPE TO THIS PROJECT, AND MUST HAVE AT LEAST FIVE (5) YEARS EXPERIENCE IN THE WORK AND / OR APPLICATION TRADE. SUBMIT EVIDENCE OF SUCH EXPERIENCE FOR REVIEW.
14. CONCRETE FOR UNDERPINNING PIERS SHALL BE INSTALLED THE SAME DAY AS EXCAVATION FOR PIER. PIERS SHALL NOT BE PERMITTED TO BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY ENGINEER.
15. CONTRACTOR TO PLACE BACKFILL IN UNDERPINNING APPROACH PITS AND AGAINST NEW UNDERPINNING WALLS WITHIN 18 TO 24 HOURS OF INSTALLATION OF CONCRETE.
16. EXISTING STONE OR RUBBLE FOUNDATION WALLS TO BE UNDERPINNED, IF ENCOUNTERED, SHALL BE TREATED WITH PRESSURE INJECTED GROUT OR PARGED AT THE DIRECTION OF THE ENGINEER OF RECORD.
17. EXISTING BRICK FOUNDATION WALLS TO BE UNDERPINNED, IF ENCOUNTERED, SHALL BE PARGED AT THE DIRECTION OF THE DESIGN ENGINEER OF RECORD.
18. EXCAVATION BELOW WATER TABLE SHALL BE AVOIDED. IF THIS IS NOT POSSIBLE, DEWATER THE SITE PRIOR TO EXCAVATION. EXCAVATION MAY ONLY PROCEED AFTER INSPECTION BY THE DESIGN ENGINEER OF RECORD WITH WRITTEN APPROVAL BY NYS LICENSED DEWATERING ENGINEER.
19. IF WATER IS ENCOUNTERED IN THE PIT, PROVIDE A WELL POINT NEAR THE PIT IN A MANNER THAT DOES NOT PERMIT THE MIGRATION OF SOIL CAUSING THE EXISTING FOUNDATION TO SETTLE. THE DESIGN ENGINEER OF RECORD AND GEOTECHNICAL ENGINEER SHALL BE SUPPLIED WITH DEWATERING PLAN BY LICENSED NYS PROFESSIONAL ENGINEER PRIOR TO START OF WORK.
20. CLEAN BOTTOM OF EXISTING FOOTING, GRADE BEAM OR PILE CAP AND RE-COMPACT DISTURBED SOIL AT BOTTOM OF PIT WITH MECHANICAL TAMPERS. COMPACT TO 95% OF THE MAXIMUM DENSITY OF THE SOIL. LOSS OF GROUND SHALL BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH GROUT PUMPED INTO THE VOIDS.
21. WHERE BOTTOM OF ADJACENT UNDERPINNING PITS ARE AT DIFFERENT ELEVATIONS, THE DEEPER PIT SHALL BE INSTALLED FIRST (UNLESS OTHERWISE NOTED)
22. REMOVE LOOSE RUBBLE OF FOOTING, GRADE BEAM OR PILE CAP PRIOR TO UNDERPINNING.
23. THE UNDERPINNING PITS SHALL BE INSTALLED AS SHOWN WITH THE MAXIMUM NUMBER OF LIFTS AS SPECIFIED. THE LIFTS SHALL BE WITHOUT INTERMEDIATE HORIZONTAL CONSTRUCTION JOINTS (COLD JOINTS) ADDITIONAL VERTICAL LAYERS OF UNDERPINNING SHALL NOT BE PERMITTED. (UNLESS APPROVED BY DESIGN ENGINEER AND SHOWN ON THESE PLANS).
24. THE UNDERPINNING PITS SHALL BE INSTALLED IN A MANNER SUCH THAT THE EXPOSED FACE OF THE CONCRETE IS VERTICAL (OR AS OTHERWISE SPECIFIED) CLEAN AND NEAT.
25. EXCAVATED MATERIALS AND SUPERIMPOSED LOADS SUCH AS EQUIPMENT AND TRUCKS SHALL NOT BE PLACED CLOSER TO THE EDGE OF EXCAVATION EQUAL TO A DISTANCE OF ONE AND A HALF TIMES THE DEPTH OF SUCH EXCAVATION.
26. ALL SIDES OR SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE INSPECTED AFTER RAINSTORMS.
27. NO UNDERPINNING WORK TO BE PERFORMED WITHOUT SPECIAL/PROGRESS INSPECTION ENGINEER ON SITE TO MONITOR WORK.
28. CONCRETE UNDERPINNING PIERS SHALL BE POURED SAME DAY AS EXCAVATED
29. NO WORK SHALL START UNTIL OBTAINING PERMIT FROM NYCDOB. COPY OF PERMIT TO BE SUBMITTED TO OWNER PRIOR TO START OF WORK.
30. PRIOR TO START OF UNDERPINNING WORK, THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL MAKE A JOINT INSPECTION OF THE STRUCTURES TO BE UNDERPINNED AND NOTE ANY STRUCTURAL DEFECTS. THIS INSPECTION SHALL BE COMPLETED AGAIN ONCE CONSTRUCTION IS COMPLETE TO DETERMINE IF ANY DAMAGE HAS OCCURRED.
31. THOUGH USUALLY SMALL, SETTLEMENT OF UNDERPINNED STRUCTURES NEARLY ALWAYS ACCOMPANIES UNDERPINNING WORK. THE AMOUNT OF SETTLEMENT, IF ANY WILL VARY BASED ON THE TYPE OF BUILDING, THE CLASS OF SOILS UPON WHICH IT RESTS, THE PRESENCE OR ABSENCE OF GROUNDWATER, THE FOUNDATION CAPACITY AND CONDITION OF THE ORIGINAL FOUNDATION AND ACTUAL WORKMANSHIP. BY USING THESE DRAWINGS TO COMPLETE THE UNDERPINNING WORK, THE CONTRACTOR AND THE OWNER UNDERSTAND THE INHERENT RISK AND ASSUME ALL RESPONSIBILITY FOR THE EFFECT AND SETTLEMENT THAT MIGHT OCCUR. ALL UNDERPINNING WORK SHALL BE STOPPED IMMEDIATELY AND THE DESIGN ENGINEER NOTIFIED IF SETTLEMENT SHOULD EXCEED 1/4".
32. P.E. RESPONSIBLE FOR "SOILS - SITE PREPARATION" SPECIAL INSPECTION SHALL INVESTIGATE SOIL CONDITIONS FOR EACH UNDERPINNING PIT AND SUPPLY WRITTEN APPROVAL AND ESTIMATED SOIL BEARING PRESSURE TO DESIGN ENGINEER AND CONTRACTOR FOR PROPOSED UNDERPINNING INSTALLATION PRIOR TO INSTALLATION OF PIN.
33. INSTALLATION OF APPROACH PITS TO BE INSTALLED AS SHOWN. OVERCUTTING OF EXCAVATION AND PREFABRIGATED SHORING BOXES SHALL NOT BE PERMITTED.

UNDERPINNING APPROACH PIT SEQUENCE OF INSTALLATION

1. EXCAVATE TO ELEVATION OF BOTTOM OF ADJACENT FOOTING TO BE UNDERPINNED. EXCAVATION WIDTH SHALL NOT EXCEED WIDTH OF SPECIFIED UNDERPINNING PIER.
2. INSTALL FIRST LAYER OF 3X10 TIMBER LAGGING
3. DRIVE VERTICAL TIMBER BEAMS IN PLACE UTILIZING FIRST LAYER OF TIMBER LAGGING TEMPLATE.
4. EXCAVATE TO REQUIRED DEPTHS BELOW ADJACENT FOOTING AS SHOWN ON PLANS, CONTINUING TO INSTALL TIMBER LAGGING AS EXCAVATION PROGRESSES. EXCAVATION TO PROCEED IN PIERS NOT EXCEED 2 FEET IN HEIGHT. LAGGING TO BE BACKPACKAGED (AS REQUIRED) BEFORE EXCAVATING NEXT TIER.

UNDERPINNING PRELOADING NOTES (IF DIRECTED BY DESIGN APPLICANT)

1. PROVIDE JACKING BLOCKOUT IN EACH UNDERPINNING PIER CENTERED ALONG LENGTH OF PIER (IN U.P. LOCATIONS SHOWN ON PLANS). THE BLOCKOUTS SHALL BE SIZED AS SHOWN AND/OR TO ACCOMMODATE A FLAT, 50 TON CAPACITY JACK WITH A MIN. 1½" STROKE (WITHOUT LOCKING COLLARS).
2. INSTALL 24"X24X1" STEEL BOTTOM PLATE
3. INSTALL HYDRAULIC JACK AND ACCESSORIES. PLACE JACKS IN JACKING BLOCKOUTS AS SHOWN
4. INSTALL 24"X24"X1 STEEL TOP PLATE
5. SET UP SURVEYING INSTRUMENTS AND MONITORING POINTS ON EXISTING FOUNDATION WALL AT POINTS 10 FEET ABOVE JACK AND 10 FEET EITHER SIDE OF UNDERPINNING PIN TO BE PRELOADED
6. INCREASE JACKING PRESSURE UNTIL BUILDING SUSTAINS ⅛" MAX. LIFT. RECORD PRESSURE.
7. MAINTAIN PRESSURE AS UNDERPINNING SETTLES
8. AFTER UNDERPINNING HOLDS LOAD WITHOUT SETTLEMENT IN EXCESS OF 1/32" FOR 10 MINUTES, WEDGE THE JACK BLOWOUTS WITH SOLID STEEL PLATES AND WEDGES UTILIZING AT LEAST ONE PAIR OF CROSS-INTERSECTING WEDGES ON EITHER SIDE OF EACH JACK. IN GAPS BETWEEN UNDERPINNING PIER AND EXISTING FOOTING.
9. REDUCE THE PRESSURE ON THE JACK AND VERIFY THAT THE BUILDING HAS NOT SETTLED IN THE JACKED AREA IN EXCESS OF 1/32". IF THE BUILDING HAS RESETTLED IN EXCESS OF 1/32", RE-JACK AREA AND REPEAT THE MEASUREMENT UNTIL OVERALL CRITERIA OF NOT GREATER THAN ⅛" OF SETTLEMENT IS ATTAINED.
10. REPEAT PROCEDURE UNDER THE REMAINDER OF THE UNDERPINNING PIERS.
11. UPON COMPLETION OF INSTALLATION OF THE FOUNDATION MAT AND/OR FOOTINGS, MAKE A FINAL VERIFICATION OF SETTLEMENT. UPON ATTAINING THE ⅛" CRITERIA, FINAL PLATES SHALL BE PLACED.
12. ANY VOIDS, INCLUDING JACK BLOCKOUTS, SHALL BE GROUTED AS DESCRIBED IN THE NOTES IN ACCORDANCE WITH THE GROUT MANUFACTURER'S INSTRUCTIONS.

UNDERPINNING NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT PROVISIONS OF THE NEW YORK CITY BUILDING CODE.
2. ALL UNDERPINNING SHALL BE SUBJECT TO CONTROLLED INSPECTION PER THE NEW YORK CITY BUILDING CODE.
3. THE UNDERPINNING FOUNDATIONS SHALL BEAR ON SUBGRADE HAVING A BEARING CAPACITY OF 3 TSF MINIMU

DEPT OF BLDGS 520991739 Job Number
ES3053789467 Scan Code

LEGENDS:

- INDICATES LINE OF SLAB
- INDICATES PROPERTY LINE
- INDICATES SLAB OPENING
- INDICATES NEW RCWALL
- INDICATES NEW FOOTING
- INDICATES 12"X12" CONCRETE POST W/ 4-#6 VERT & #3 TIES @12" O.C.

NOTES:

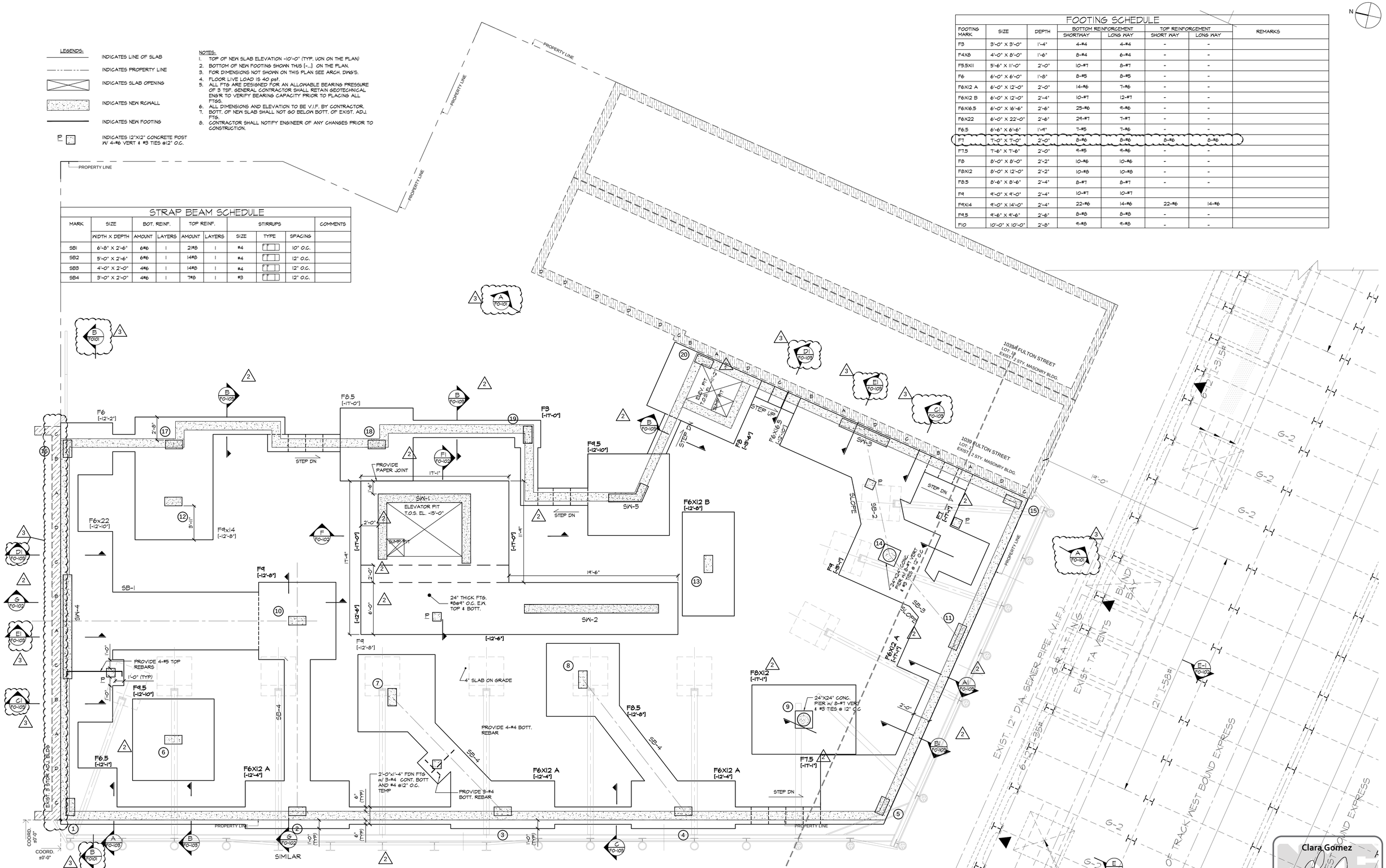
1. TOP OF NEW SLAB ELEVATION -10'-0" (TYP. UON ON THE PLAN)
2. BOTTOM OF NEW FOOTING SHOWN THUS [-...] ON THE PLAN.
3. FOR DIMENSIONS NOT SHOWN ON THIS PLAN SEE ARCH. DWG'S.
4. FLOOR LIVE LOAD IS 40 psf.
5. ALL FTG ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3 TSF. GENERAL CONTRACTOR SHALL RETAIN GEOTECHNICAL ENG'R TO VERIFY BEARING CAPACITY PRIOR TO PLACING ALL FTGS.
6. ALL DIMENSIONS AND ELEVATION TO BE V.I.F. BY CONTRACTOR.
7. BOTT. OF NEW SLAB SHALL NOT GO BELOW BOTT. OF EXIST. ADJ. FTG.
8. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CHANGES PRIOR TO CONSTRUCTION.

STRAP BEAM SCHEDULE

MARK	SIZE	BOT. REINF.		TOP REINF.		STIRRUPS			COMMENTS
	WIDTH X DEPTH	AMOUNT	LAYERS	AMOUNT	LAYERS	SIZE	TYPE	SPACING	
SB1	6'-8" X 2'-6"	6#6	1	2#8	1	#4		10" O.C.	
SB2	5'-0" X 2'-6"	6#6	1	14#8	1	#4		12" O.C.	
SB3	4'-0" X 2'-0"	4#6	1	14#8	1	#4		12" O.C.	
SB4	3'-0" X 2'-0"	4#6	1	7#8	1	#3		12" O.C.	

FOOTING SCHEDULE

FOOTING MARK	SIZE	DEPTH	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		REMARKS
			SHORTWAY	LONG WAY	SHORT WAY	LONG WAY	
F3	3'-0" X 3'-0"	1'-4"	4-#4	4-#4	-	-	
F4X8	4'-0" X 8'-0"	1'-6"	8-#4	6-#4	-	-	
F5.5X11	5'-6" X 11'-0"	2'-0"	10-#7	8-#7	-	-	
F6	6'-0" X 6'-0"	1'-6"	8-#5	8-#5	-	-	
F6X12 A	6'-0" X 12'-0"	2'-0"	14-#6	7-#6	-	-	
F6X12 B	6'-0" X 12'-0"	2'-4"	10-#7	12-#7	-	-	
F6X16.5	6'-0" X 16'-6"	2'-6"	25-#6	9-#6	-	-	
F6X22	6'-0" X 22'-0"	2'-6"	28-#7	7-#7	-	-	
F6.5	6'-6" X 6'-6"	1'-9"	7-#5	7-#6	-	-	
F7	7'-0" X 7'-0"	2'-0"	8-#6	8-#6	8-#6	8-#6	
F7.5	7'-6" X 7'-6"	2'-0"	9-#5	9-#6	-	-	
F8	8'-0" X 8'-0"	2'-2"	10-#6	10-#6	-	-	
F8X12	8'-0" X 12'-0"	2'-2"	10-#8	10-#8	-	-	
F8.5	8'-6" X 8'-6"	2'-4"	8-#7	8-#7	-	-	
F9	9'-0" X 9'-0"	2'-4"	10-#7	10-#7			
F9X14	9'-0" X 14'-0"	2'-4"	22-#6	14-#6	22-#6	14-#6	
F9.5	9'-6" X 9'-6"	2'-6"	8-#8	8-#8	-	-	
F10	10'-0" X 10'-0"	2'-8"	9-#8	9-#8	-	-	



CELLAR/FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

NOTE: SEE SOE DRAWINGS FOR EXCAVATION AND SHORING PLANS AND DETAILS

OWNER SHALL BE RESPONSIBLE IN OBTAINING NEIGHBOR'S CONSENT FOR UNDERPINNING

Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 06/12/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	ISSUED/REVISION DATE	SEAL	
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY. 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	CELLAR/FOUNDATION PLAN SCALE: AS SHOWN	1. ISSUED 04-28-2013 REV 1 5-12-2014 2. REV. 10-17-2012 REV 2 05-19-2014 3. MTA FILING 06-21-2013 REV 3 06-9-2014 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014 DOB FILING 2-28-2014	STATE OF NEW YORK GENNADY SARAFIAN ASSOCIATE	FO-101.01 4 OF 24

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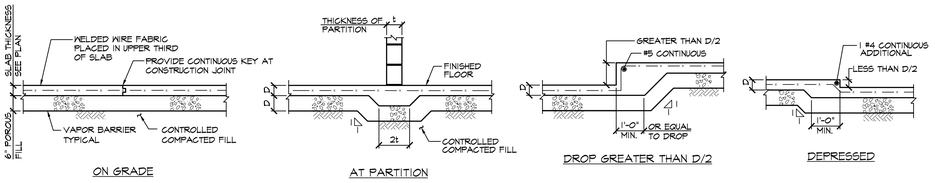
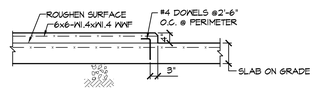
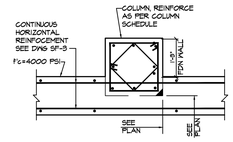


TYPICAL SLAB ON GRADE DETAILS



TYPICAL MECHANICAL EQUIPMENT PAD DETAIL

SCALE: 1/2"=1'-0"



TYPICAL PILASTER DETAIL

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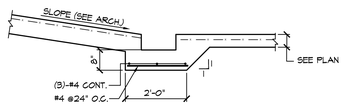
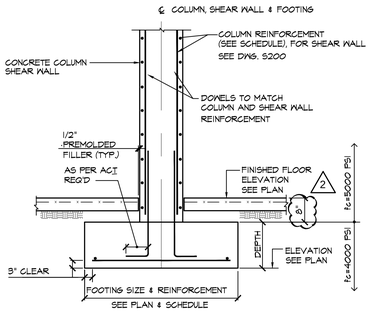


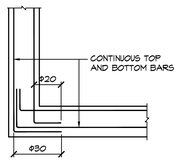
TYP. SECTION THROUGH TRENCH DRAIN

SCALE: 1/2"=1'-0"

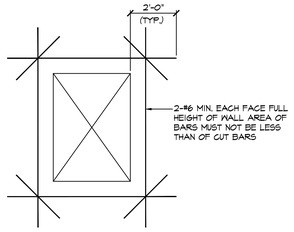


~~TYPICAL~~ INTERIOR FOOTING DETAIL FOR COLUMN AND SHEAR WALL

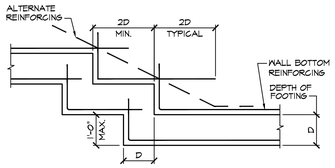
3



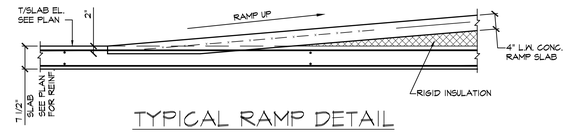
TYPICAL CONCRETE WALL CORNER REINFORCING DETAIL



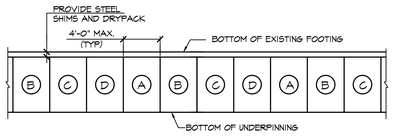
TYPICAL OPENING IN WALL



TYPICAL STEP FOOTING DETAIL



TYPICAL RAMP DETAIL



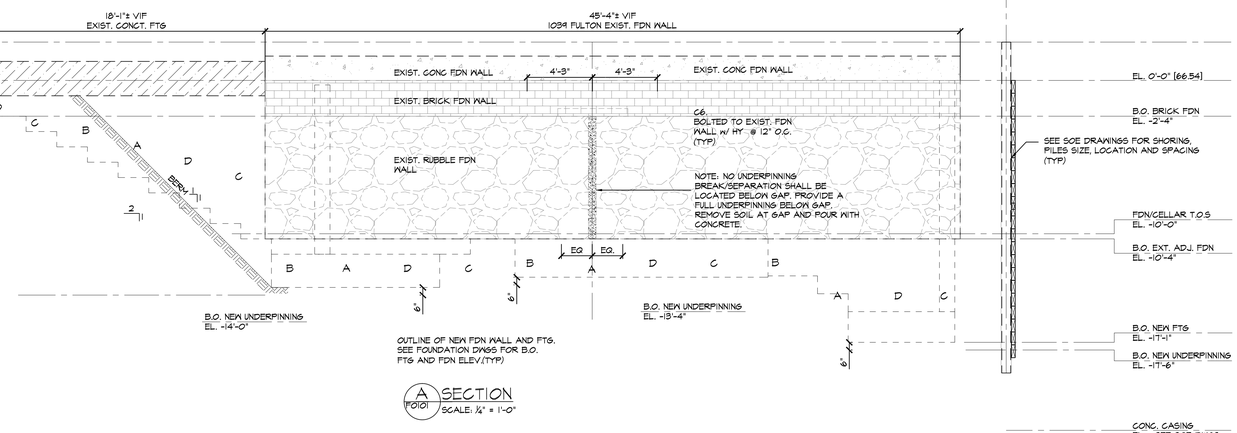
~~TYPICAL~~ UNDERPINNING DETAILS

NOTES:

1. EXCAVATE AND PLACE PANELS (A) FIRST, (B) SECOND, (C) THIRD, (D) LAST.

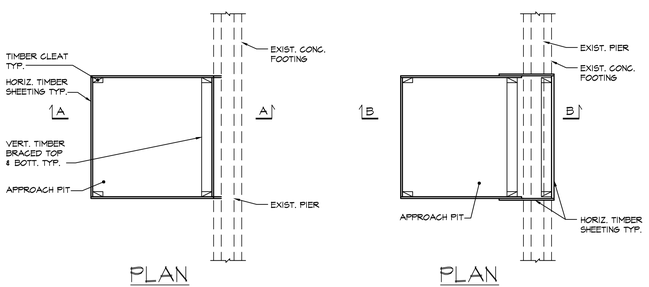
2. MINIMUM CLEAR DISTANCE BETWEEN SIMULTANEOUS CUTS SHALL BE 12'-0".

3. THE FOUNDATION CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER TO PREPARE DRAWINGS SHOWING ANY NECESSARY UNDERPINNING, BRACING AND SHEETING OR OTHER CONSTRUCTION REQUIRED FOR THE SUPPORT OF EACH ROCK, SIDEWALK, ROAD OR BUILDING ON ADJACENT PROPERTIES AND TO FILE FORM TR-1 WITH THE BUILDING DEPARTMENT FOR THIS WORK. NO NEW WORK SHALL BEGIN UNTIL SUCH DRAWINGS AND FORMS HAVE BEEN FILED WITH THE BUILDING DEPARTMENT AND ALL SUCH WORK PERTAINING TO THE SUPPORT OF ADJACENT PROPERTIES OR BUILDINGS HAS BEEN COMPLETED. THE UNDERPINNING SKETCH ABOVE IS A GUIDE TO THE ENGINEER PREPARING THE UNDERPINNING DRAWINGS FOR SEQUENCE OF CONSTRUCTION ONLY.



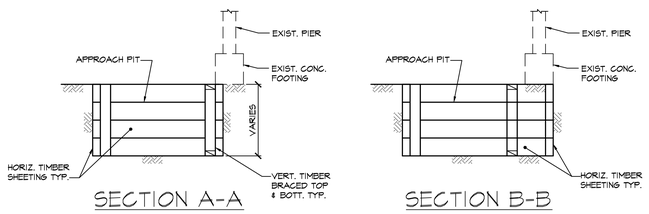
A (FO101) SECTION

SCALE: 1/4" = 1'-0"



PLAN

PLAN



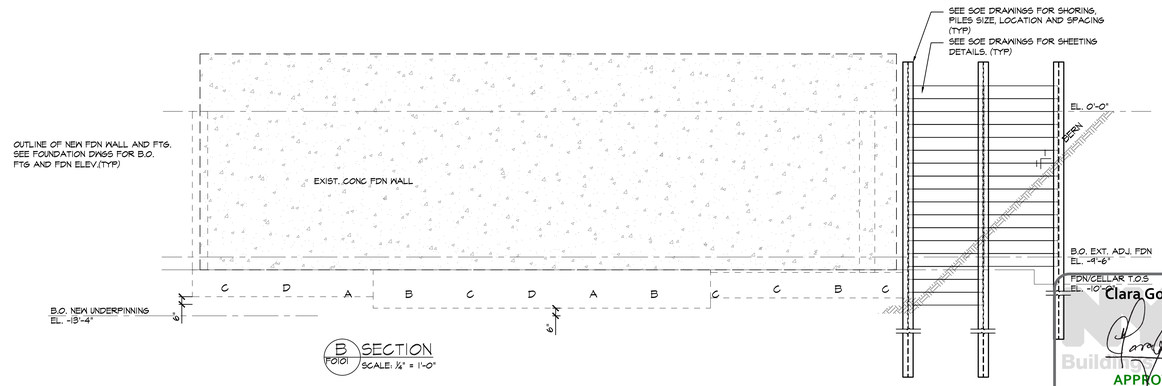
SECTION A-A

STAGE I

SECTION B-B

STAGE II

~~TYPICAL~~ UNDERPINNING PIT SHEETING DETAILS



B (FO101) SECTION

SCALE: 1/4" = 1'-0"

Clara Gomez

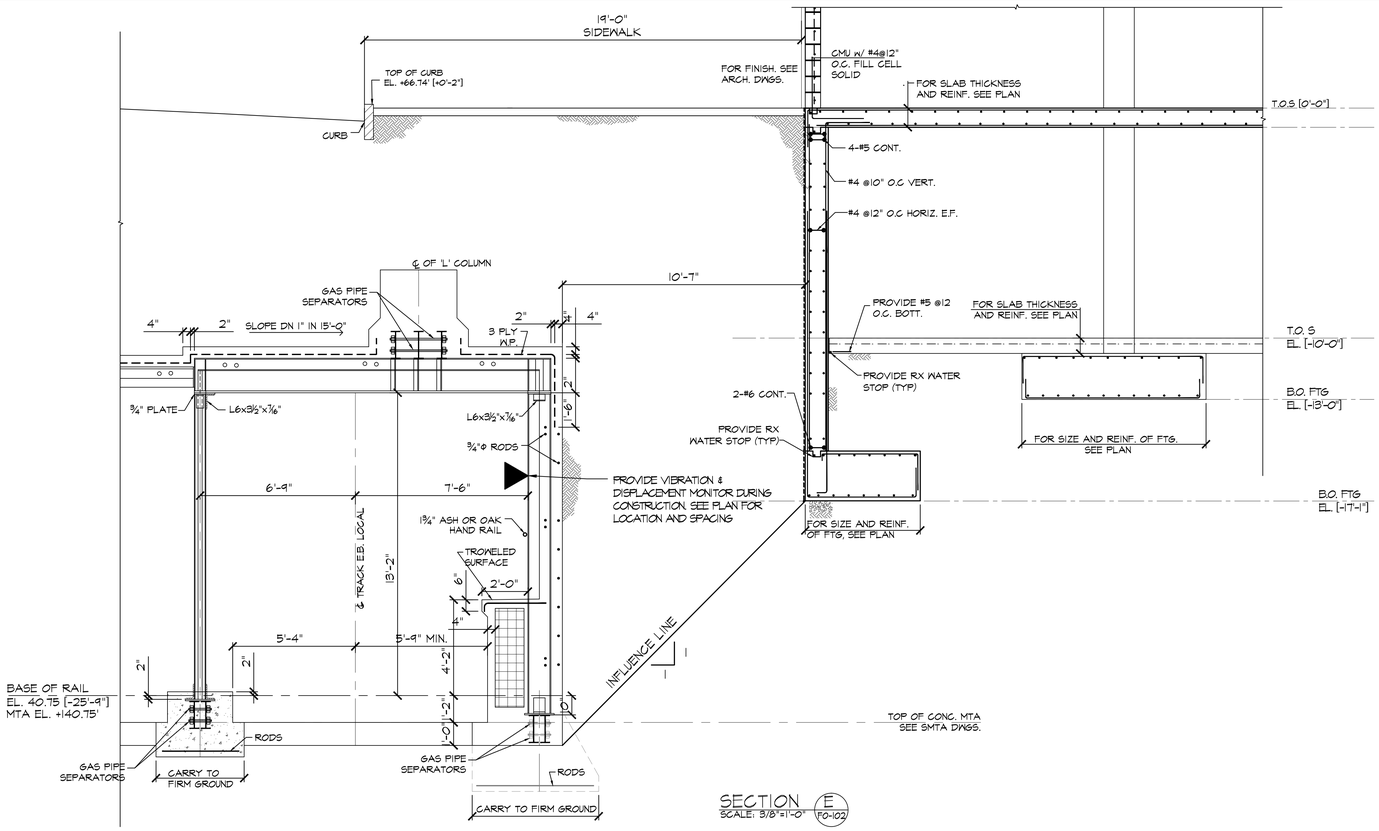
NYC Building

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 06/12/2014
NYC Development Hub

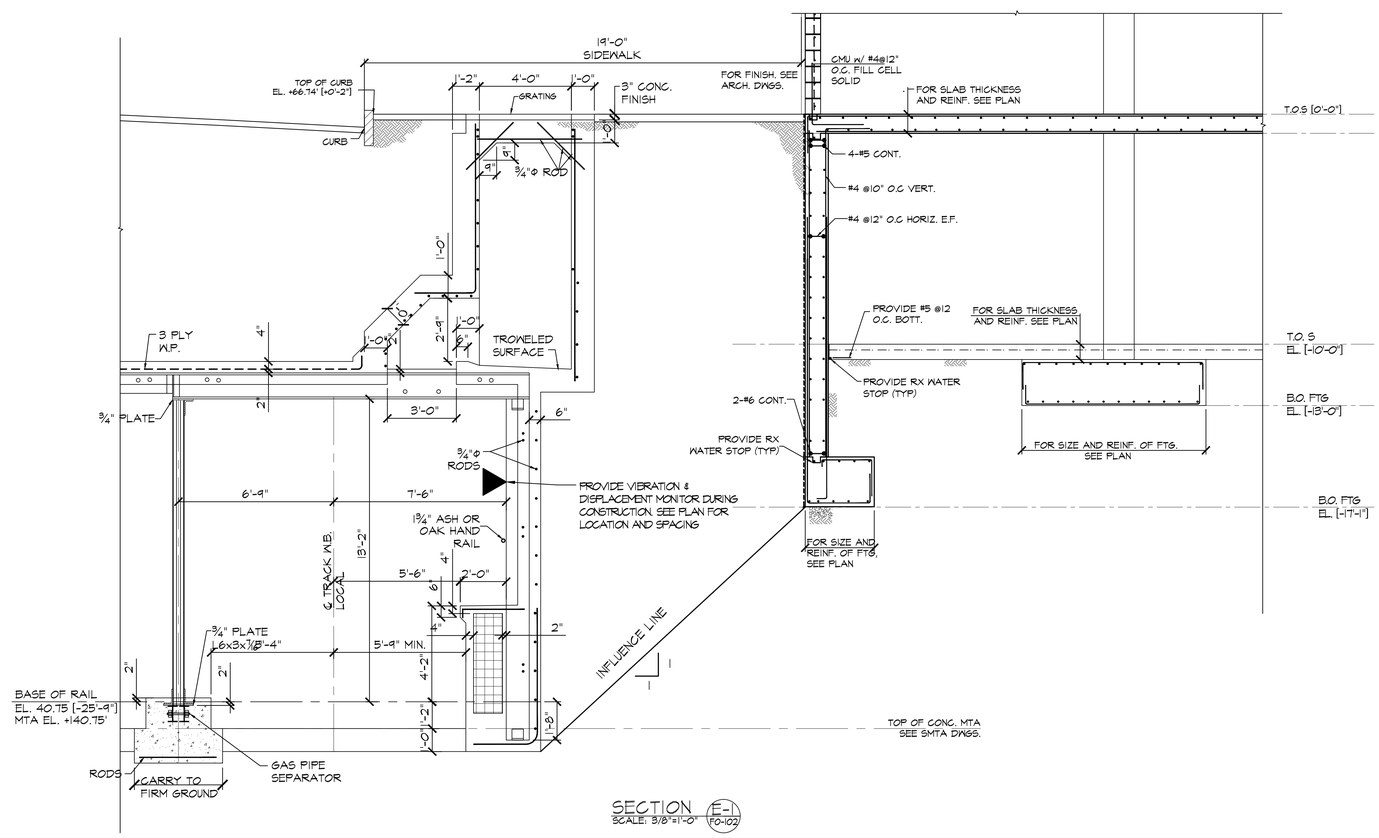
OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE	DESIGN/REVISION DATE	SEAL	DRAWING NUMBER
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11226 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FOUNDATION DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 REV 1 5-12-2014 2. REV. 10-17-2012 REV 2 05-19-2014 3. MTA FILING 06-21-2013 REV 3 06-9-2014 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	STATE OF NEW YORK · GENNADY SARAFIAN · 087192 · LICENSED PROFESSIONAL ENGINEER	FO-101.01 5 OF 24

2013.465

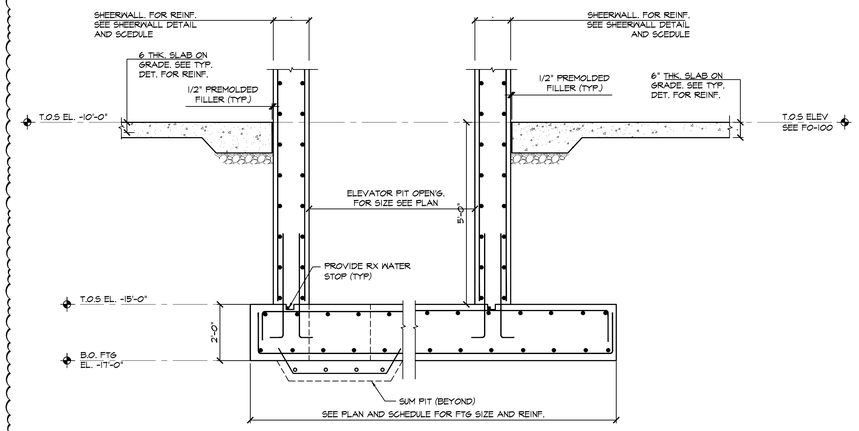
S:\Projects\2013.465 - 1035 Fulton Street Brooklyn NY 11238\Structural Drawings\S-PLAN.dwg, FO-101, 6/10/2014 11:34:26 AM



SECTION E
SCALE: 3/8"=1'-0" F0-102

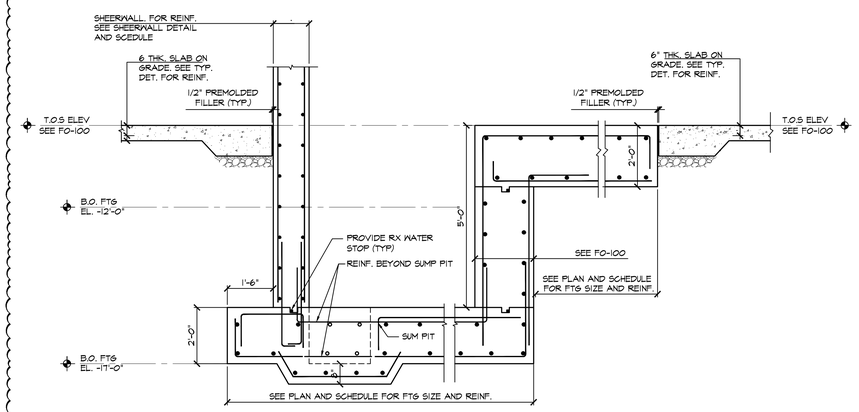


SECTION E-1
SCALE: 3/8"=1'-0" F0-102



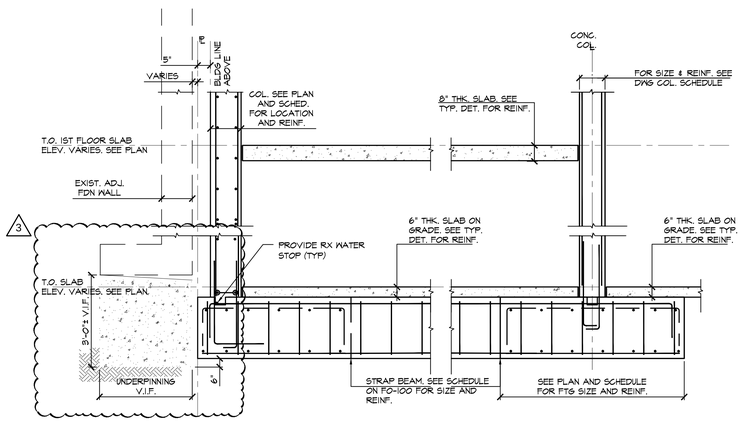
SECTION F
SCALE: 1/2"=1'-0" F0-102

NOTE:
1. FOR ELEVATOR BUMPER, COORDINATE WITH MECH AND ELEV. MANUFACTURER
2. FOR FOOTING SIZES AND LOCATION, SEE F0-100



SECTION F1
SCALE: 1/2"=1'-0" F0-102

NOTE:
1. FOR ELEVATOR BUMPER, COORDINATE WITH MECH AND ELEV. MANUFACTURER
2. FOR FOOTING SIZES AND LOCATION, SEE F0-100



SECTION G
SCALE: 1/2"=1'-0" F0-102

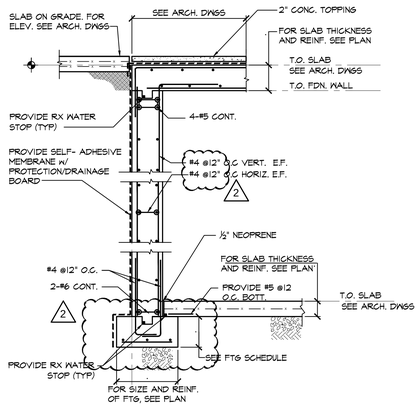
Clara Gomez
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 06/12/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ARCHITECT	PROJECT TITLE	DRAWING TITLE
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11235 P: (718) 332-5266 F: (718) 332-2274 E: llevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New Yoin NY 10001 212-268-5600 info@issacstern.com issacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FOUNDATION SECTIONS & DETAILS SCALE: AS SHOWN

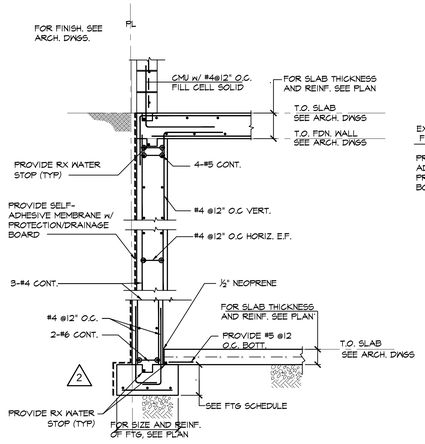
ISSUED/REVISION DATE:	
1. ISSUED 04-28-2013	REV 1 5-12-2014
2. REV. 10-17-2012	REV 2 05-19-2014
3. MTA FILING 06-21-2013	REV 3 06-9-2014
4. DOB FILING 07-11-2013	
DOB FILING 02-04-2014	

SEAL: STATE OF NEW YORK · GENNADY SARATOVSKY · LICENSED PROFESSIONAL ENGINEER

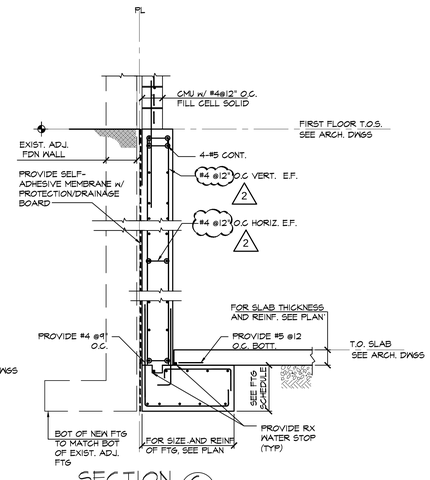
DRAWING NUMBER
FO-102.01



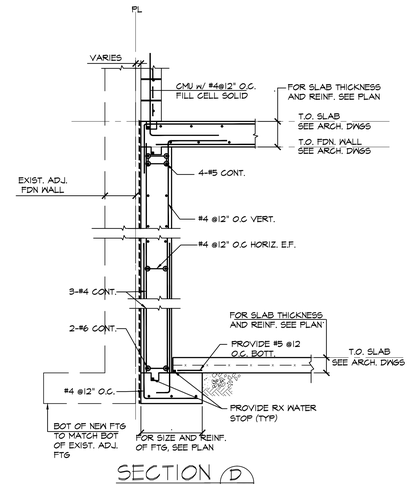
SECTION A1 (FO-103)
SCALE: 1/2"=1'-0"



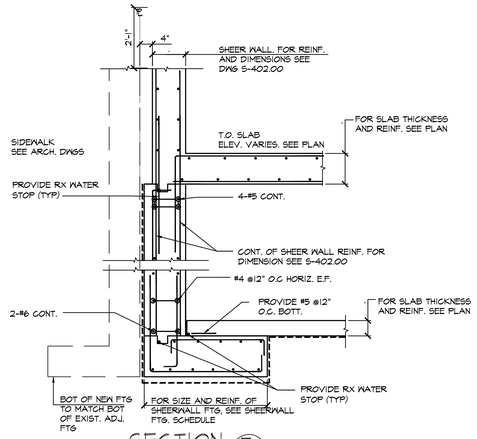
SECTION B (FO-103)
SCALE: 1/2"=1'-0"



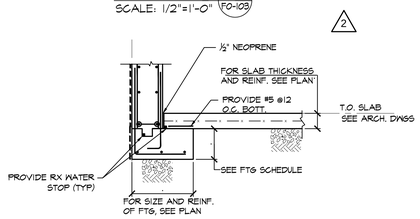
SECTION C (FO-103)
SCALE: 1/2"=1'-0"



SECTION D (FO-101)
SCALE: 1/2"=1'-0"

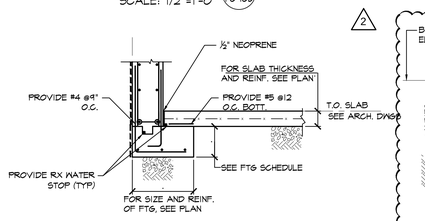


SECTION E (FO-103)
SCALE: 1/2"=1'-0"



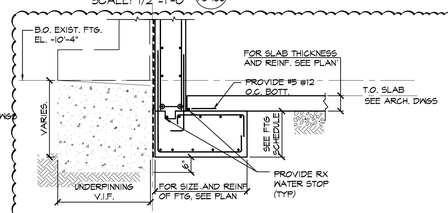
SECTION A1 (FO-103)
SCALE: 1/2"=1'-0"

NOTE: SEE A/FO-101 FOR REINF NOT SHOWN



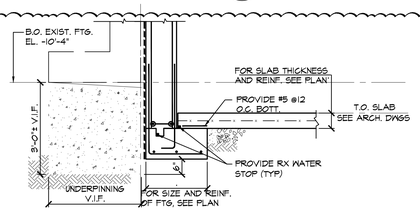
SECTION B1 (FO-103)
SCALE: 1/2"=1'-0"

NOTE: SEE B/FO-101 FOR REINF NOT SHOWN



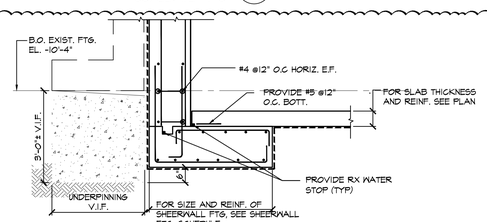
SECTION C1 (FO-103)
SCALE: 1/2"=1'-0"

NOTE: SEE C/FO-101 FOR REINF NOT SHOWN



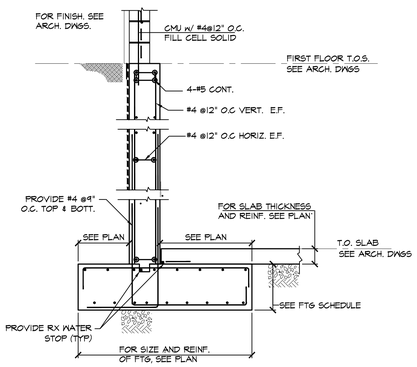
SECTION D1 (FO-101)
SCALE: 1/2"=1'-0"

NOTE: SEE D/FO-101 FOR REINF NOT SHOWN



SECTION E1 (FO-103)
SCALE: 1/2"=1'-0"

NOTE: SEE E/FO-101 FOR REINF NOT SHOWN



SECTION H (FO-103)
SCALE: 1/2"=1'-0"

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Clara Gomez
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 06/12/2014
NYC Development Hub

OWNER / DEVELOPER	STRUCTURAL ENGINEER:	MECHANICAL ENGINEER:	ARCHITECT:	PROJECT TITLE:	DRAWING TITLE:	ISSUED/REVISION DATE:		SEAL:	DRAWING NO.
STERLING TOWN 60-43 MASPETH AVENUE MASPETH, NY. 11378 718-416-1111	ENGINEERING GROUP ASSOCIATES, PC 19 West 21st Street, Suite 1103 New York, NY. 10010 (212) 982-1410 Gennady@egroupassociates.com EngineeringGroupAssociates.com	LEVIN ENGINEERING PLLC 28 Dooley Street, 2nd Floor Brooklyn, NY 11226 P: (718) 332-2266 F: (718) 332-2274 E: blevin@levin-engineering.com	ISSAC & STERN ARCHITECTS, P.C. 25 West 31st St. 9th Floor New York NY 10001 212-268-5600 info@isaacstern.com isaacstern.com	1035 FULTON STREET Brooklyn, New York 11222 Block: 1992 Lot: 11 + 12 + 13 + 14	FOUNDATION DETAILS SCALE: AS SHOWN	1. ISSUED 04-28-2013 2. REV. 10-17-2012 3. MTA FILING 06-21-2013 4. DOB FILING 07-11-2013 DOB FILING 02-04-2014	REV 1 5-12-2014 REV 2 05-19-2014 REV 3 06-9-2014	STATE OF NEW YORK GENNADY SARATOVSKY LICENSED PROFESSIONAL ENGINEER	FO-103.01 5 OF 24

2013.465

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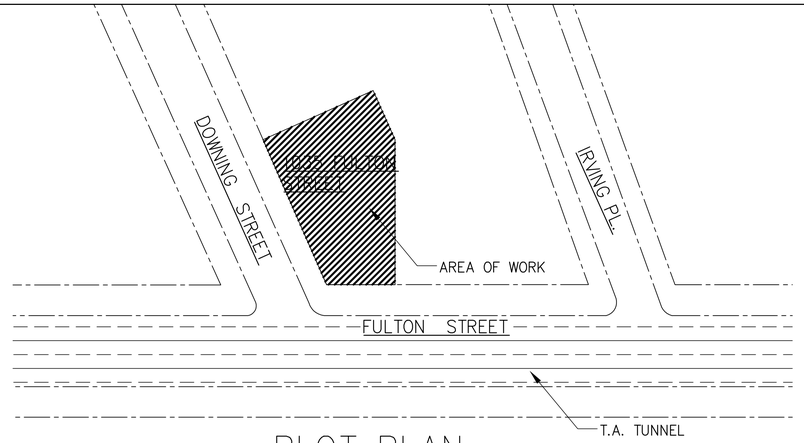
DEPT OF BLDGS 340168277 Job Number
ES522738290 Scan Code



PLOT PLAN
SCALE: NTS

DRAWING INDEX		
NUM. OF DWG'S.	DWG No.	DWG. TITLE
6	SOE-100.00	PLOT PLAN AND NOTES
	SOE-101.00	SUPPORT OF EXCAVATION PLAN
	SOE-102.00	ENLARGED SUPPORT OF EXCAVATION PLAN
	SOE-103.00	SECTIONS AND DETAILS
	SOE-104.00	SECTIONS AND DETAILS
	SOE-105.00	SECTIONS, NOTES, AND DETAILS

GENERAL CONDITIONS

1. THESE DRAWINGS ARE INTENDED TO BE USED BY ONLY AN EXPERIENCED CONTRACTOR AFTER CONSULTATION WITH THIS OFFICE. THIS OFFICE WILL NOT BE RESPONSIBLE FOR JOB SITE PROBLEMS DUE TO FAILURE TO INTERPRET THE DOCUMENTS CORRECTLY. REPRESENTATIVES OF S.E.T., P.C. ARE AVAILABLE TO ANSWER QUESTIONS AND TO ASSIST THE CONTRACTOR BY EXPLAINING THE DESIGN INTENT. FAILURE BY THE CONTRACTOR TO UNDERSTAND THE COMPLEXITIES OF THE PROJECT AND THE SEQUENCE OF CONSTRUCTION CAN RESULT IN INJURY OR DEATH TO WORKERS. PROCEEDING WITH CONSTRUCTION WITHOUT FULL UNDERSTANDING OF THE PROJECT AND WITHOUT A COMPLETE SET OF DESIGN DOCUMENTS WILL PUT BOTH THE PROJECT AND INDIVIDUALS IN PERIL. THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR ANY CONSEQUENCE OF THAT ACTION.
2. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS SPELLED OUT IN THESE NOTES. ALL PARTIES MUST CAREFULLY STUDY ALL NOTES FOR ITEMS WHICH MAY PERTAIN TO THEIR TRADES. FAILURE TO READ THESE NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS. QUESTIONS WILL BE CHEERFULLY ANSWERED BY THE ENGINEER.
3. ALL CONTRACTORS MUST VISIT SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET BEFORE SUBMITTING BID. LACK OF THOROUGH UNDERSTANDING OF THE PROJECT REQUIREMENTS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR JUSTIFY A REQUEST FOR EXTRA COMPENSATION.
4. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CHECK ALL MEASUREMENTS ON JOB AND SHALL BE RESPONSIBLE FOR SAME.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT BUILDING CODE OF ALL GOVERNING AUTHORIES.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS, AND DRAWINGS.
7. ALL CONTRACTORS AND SUBCONTRACTORS ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATION WITH OTHER TRADES, METHODS, SAFETY AND SECURITY ON THE JOB SITE. S.E.T., P.C. AND ITS AGENTS AND EMPLOYEES ARE NOT RESPONSIBLE OR LIABLE FOR THE ABOVE AND SHALL BE HELD HARMLESS AND INDEMNIFIED BY ALL CONTRACTORS AND SUBCONTRACTORS FROM ANY AND ALL CLAIMS, LOSSES, SUITS AND LEGAL ACTION WHATSOEVER ARISING FROM THE PERFORMANCE OF WORK ON THIS PROJECT.
8. ACCEPTANCE OF DEVIATIONS FROM ANY OF THE REQUIREMENTS OF THESE NOTES SHALL BE AT THE SOLE DISCRETION OF THE ENGINEER. ACCEPTANCE OF A DEVIATION FROM ANY REQUIREMENT SHALL NOT BE CONSTRUED AS PERMITTING ANY OTHER DEVIATION.

TENANT PROTECTION PLANS 2008 CODE

THIS SITE AT THE PRESENT TIME CONTAINS A VACANT LOT.

1. EGRESS FROM SITE SHALL REMAIN UNOBSTRUCTED BY CONSTRUCTION MATERIALS. NO MEANS OF EGRESS WILL BE COMPROMISED BY MATERIALS OR PROCESSES FROM CONSTRUCTION.
2. CONTROL OF DUST SHALL BE MAINTAINED DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH NYCDEP REQUIREMENTS FOR DUST CONTROL
3. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF ON A REGULAR BASIS. NO ACCUMULATION OF DEBRIS WILL BE ALLOWED. MINI CONTAINERS SHALL BE MOVED OUT OF THE WORKING SPACE WHEN FILLED. MINI CONTAINERS WILL NOT BLOCK PUBLIC AREAS OR MEANS OF EGRESS. DISPOSABLE DEBRIS BAGS WILL BE REMOVED FROM THE PREMISES REGULARLY.
4. REGULAR PEST CONTROL WILL BE EMPLOYED DURING CONSTRUCTION. IF PESTS ARE OBSERVED, A PROFESSIONAL EXTERMINATOR WILL BE CALLED IN. NO FOOD WILL BE ALLOWED TO ACCUMULATE TO BECOME AN ATTRACTIVE NUISANCE FOR PESTS.
5. SANITARY FACILITIES SHALL BE PROVIDED AND KEPT CLEAN DURING CONSTRUCTION. NO SANITARY NUISANCE WILL BE ALLOWED.
6. NOISE WILL BE LIMITED TO ACCEPTABLE LEVELS DURING CONSTRUCTION. WORK MAY TAKE PLACE BETWEEN 7 AM AND 6 PM WEEKDAYS UNLESS GRANTED A VARIANCE. CONTRACTOR TO COMPLY WITH NYCDEP REQUIREMENTS FOR NOISE CONTROL.
7. IF PAINT OR MATERIALS ARE SUSPECTED OF CONTAINING LEAD AND OR ASBESTOS ARE TO BE REMOVED, LICENSED LEAD AND ASBESTOS SAMPLING AND TESTING COMPANIES WILL CERTIFY MATERIALS. APPROVED METHODS OF REMOVAL WILL BE EMPLOYED, ALL APPROPRIATE PERMITS WILL BE OBTAINED.
8. THE REQUIREMENTS OF THE NEW YORK CITY HOUSING MAINTENANCE CODE, AND, WHERE APPLICABLE, THE NEW YORK STATE MULTIPLE DWELLING LAW SHALL BE STRICTLY OBSERVED. INCLUDING CLEANING, PAINTING, EXTERMINATION AND RODENT ERADICATION, COLLECTION OF WASTES, WATER SUPPLY, SEWERS AND DRAINAGE, HEAT AND HOT WATER, PROTECTIVE DEVICES AND FIRE PROTECTION.
9. STRUCTURAL INTEGRITY OF BUILDING COMPONENTS SHALL ME MAINTAINED DURING THE WORK. NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.

GENERAL NOTES:

1. ALL WORK TO CONFORM TO NEW YORK CITY BUILDING CODE REQUIREMENTS.
2. THE DESIGN PLANS AND NOTES, TO THE BEST OF ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE.
3. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
4. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
5. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SHOULD NOT BE USED FOR ORDERING AND/OR FABRICATING MATERIAL. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATING MATERIALS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM HIS WORK PROPERLY.
7. THE EXCAVATION / UNDERPINNING / SHEETING CONTRACTOR SHALL EXERCISE CAUTION IN THE PROCESS OF THE WORK. IF DAMAGE OCCURS TO THE ADJACENT BUILDING ELEMENTS OR CONTENTS, DUE TO THE NEGLIGENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO RECTIFY ALL DAMAGE AND/OR REIMBURSE PROPERTY OWNERS FOR ANY AND ALL DAMAGES, TO THE SATISFACTION OF ALL CONCERNED PARTIES.
8. THE EXCAVATION / UNDERPINNING / SHEETING CONTRACTOR SHALL BE COMPLETLY RESPONSIBLE FOR THE SAFETY OF ALL ADJACENT STRUCTURES.
9. ALL WORK PERFORMED WHICH AFFECTS THE ADJACENT BUILDING OPERATIONS SHALL CAUSE A MINIMUM OF DISTURBANCE TO THE NORMAL OPERATION OF AFFECTED PARTS OF THE BUILDING.
10. PILE INSTALLATION PROCEDURE SHALL BE SUCH THAT ADJACENT STRUCTURES ARE NOT DAMAGED.

SAFETY DURING EXECUTION OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS OF PUBLIC AND WORKER SAFETY DURING EXECUTION OF THE WORK. THIS SHALL INCLUDE COMPLANCE WITH CHAPTER 33 OF THE NEW YORK CITY BUILDING CODE: SAFEGUARDS DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE SIDEWALK PROTECTION AND PROTECTION OF ADJOINING PROPERTIES, AS REQUIRED BY THE NYC BLDG. CODE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND FILING A SITE SAFETY PLAN AND/OR PROVIDING OTHER WRITTEN ASSURANCES OF SAFE OPERATIONS AS MAY BE REQUIRED BY THE AUTHORITES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE WORKING ENVIRONMENT FOR ALL WORKERS. THIS SHALL INCLUDE COMPLIANCE WITH ALL OSHA, STATE AND LOCAL LABOR LAWS WHICH MAY GOVERN THIS TYPE OF WORK.
5. THE CONTRACTOR SHALL PROVIDE REGULAR PERIODIC INSPECTION OF CONSTRUCTION OPERATIONS AS REQUIRED TO ENSURE ONGOING MAINTAINANCE OF ALL SAFETY OPERATIONS AND EQUIPMENT. SUCH INSPECTIONS SHALL BE UNDERTAKEN BY AN AGENT OF THE CONTRACTOR WHO IS QUALIFIED TO EVALUATE SUCH OPERATIONS AND EQUIPMENT. THIS INSPECTOR SHALL PREPARE WRITTEN SAFETY REPORTS WHICH SHALL BE MAINTAINED AT THE JOB SITE FOR REVIEW BY THE AUTHORITIES HAVING JURISDICTON.

SPECIAL INSPECTIONS

1. PRIOR TO BEGINNING ANY WORK, THE OWNER SHALL RETAIN THE SERVICES OF S.E.T. , P.C., OR ANOTHER ACCEPTABLE LICENSED PROFESSIONAL ENGINEER WHO SHALL HAVE PROVEN EXPERIENCE ACCEPTABLE TO THE OWNER AND ARCHITECT. MINIMUM REQUIRED QUALIFICATIONS SHALL INCLUDE A PROFESSIONAL LIABILITY INSURANCE COVERAGE OF 1 MILLION DOLLARS AND A MINIMUM PROVEN EXPERIENCE OF 5 YEARS WITH SIMILAR WORK.
2. SPECIAL AND PROGRESS (CONTROLLED) INSPECTIONS REQUIRED BY THE NYC BUILDING CODE SHALL BE PERFORMED BY A TESTING AGENCY AND / OR PROFESSIONAL ENGINEER RETAINED BY THE OWNER AT NO COST TO THE CONTRACTOR FOR THE FOLLOWING CHECKED ITEMS:

☐ STRUCTURAL STEEL-WELDING	BC 1704.3.1
☐ STRUCTURAL STEEL-ERECTION & BOLTING	BC 1704.3.2 , 1704.3.3
☐ STRUCTURAL COLD-FORMED STEEL	BC 1704.3.4
☐ CONCRETE-CAST-IN-PLACE	BC 1704.4
☐ CONCRETE TEST CYLINDERS	BC 1905.6
☐ CONCRETE DESIGN MIX	BC 1905.3
☐ MASONRY	BC 1704.5
☐ SOILS-SITE PREPARATION	BC 1704.7.1
☐ SOILS-INVESTIGATIONS (BORINGS/TEST PITS)	BC 1704.7.4
☐ PILE FOUNDATIONS & DRILLED PIER INSTALLATION	BC 1704.8
☐ UNDERPINNING	BC 1704.9.1
☐ STRUCTURAL SAFETY-STRUCTURAL STABILITY	BC 1704.19
☒ EXCAVATION-SHEETING, SHORING, & BRACING	BC 1704.19 , BC 3304.4.1
☐ FOOTING AND FOUNDATION	BC 109.3.1
☐ FRAME INSPECTION	BC 109.3.3
☐ FINAL	

THE TESTING AGENCY FOR CONTROLLED INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE NEW YORK CITY BUILDINGS DEPARTMENT.

3. THE CONTRACTORS ENGINEER SHALL PREPARE PLANS, CALCULATIONS, AND NOTES IN THE FORM OF SHOP DRAWINGS, FOR ALL ITEMS OF WORK WHICH DIFFER FROM WHAT IS SHOWN ON THE STRUCTURAL DRAWINGS DUE TO FIELD CONDITIONS. HE SHALL ALSO PREPARE PLANS IN THE FORM OF SHOP DRAWINGS, CALCULATIONS AND NOTES FOR ALL TEMPORARY SHORES AND BRACES AND CLEARLY INDICATE METHOD OF INSTALLATION, SEQUENCE OF OPERATIONS, AND QUALITY CONTROL.
4. THESE SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND ARCHITECT PRIOR TO CONSTRUCTION. WORK SHALL BE EXECUTED FROM REVIEWED SHOP DRAWINGS ONLY.
5. COPIES OF SUCH DRAWINGS WHICH INCLUDE THE ARCHITECTS AND ENGINEER'S COMMENTS SHALL BE FILED WITH THE DEPARMENT OF BUILDINGS (ON AMENDMENT FORMS). ADDITIONALLY, AT COMPLETION OF WORK, FORMS INCLUDING ALL INSPECTION REPORTS PREPARED BY THE CONTRACTOR'S ENGINEER SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS.
6. THE SPECIAL INSPECTIONS ENGINEER SHALL DETERMINE THE FREQUENCY OF INSPECTIONS NEEDED AND WHETHER HE OR SHE SHOULD INSPECT THE SITE PERSONALLY OR SEND A PERSON UNDER HIS OR HER DIRECT SUPERVISION. AT A MINIMUM, THE SITE MUST BE INSPECTED TWICE, ONCE AT A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR AND ONCE DURING CONSTRUCTION OPERATIONS.
7. THE SPECIAL INSPECTIONS ENGINEER, SHALL MAINTAIN A LOG IN HIS OR HER OFFICE WHICH INCLUDES THE FOLLOWING INFORMATION:

(i) ADDRESS OF THE PREMISES, JOB NUMBER, CONTRACTOR NAME AND ADRESS, AND
(ii) DATE AND TIME OF EACH INSPECTION INCLUDING
(A) NAMES OF PERSONNEL WHO INSPECTED THE SITE, AND
(B) ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS GIVEN RELATING TO ANY OF THE FOLLOWING:

(1) DEVIATIONS FROM THE CONTRACT DOCUMENTS.
(2) ANTICIPATED FIELD CONDITIONS;
(3) PROPER EXECUTION OF THE STRUCTURAL WORK;
(4) GOOD ENGINEERING PRACTICE;
(5) PRECAUTIONS TAKEN TO MAINTAIN SAFE CONDITIONS IF WORK IS STOPPED FOR ANY REASON.

(iii) THE DATE OF AND PARTICIPANTS IN ANY CONVERSATIONS WITH THE SPECIAL INSPECTIONS ENGINEER OCCURING OFF-SITE AND RELATING TO ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS.

8. THE SPECIAL INSPECTIONS ENGINEER SHALL RETAIN A COPY OF THE DOCUMENTS DESCRIBED ABOVE IN HIS OR HER OFFICE AND SHALL PROVIDE A COPY TO THE CONTRACTOR AND / OR OWNER TO BE KEPT AT THE CONSTRUCTION SITE.
9. THE SPECIAL INSPECTIONS ENGINEER RESPONSIBLE FOR SPECIAL INSPECTION SHALL REPORT UNSAFE CONDITIONS, WHEN AND IF OBSERVED DURING HIS / HER SITE VISITS, TO THE DEPARTMENT OF BUILDINGS AND / OR ANY OTHER AFFECTED PARTIES OR AGENCIES. IT IS TO BE NOTED THAT THE SPECIAL INSPECTIONS ENGINEER AND ENGINEER OF RECORD ARE NOT RESPONSIBLE IN ANY WAY FOR SITE SAFETY. SITE SAFETY SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
10. UPON REQUEST OF THE BUILDINGS DEPARTMENT, THE SPECIAL INSPECTIONS ENGINEER SHALL MAKE AVAILABLE FOR REVIEW BY THE BUILDINGS DEPARTMENT DOCUMENTS AND THE LOG DESCRIBED ABOVE.

STRUCTURAL STABILITY NOTES

1. CONTROLLED INSPECTION OF THE STABILITY AND INTEGRITY OF EXISTING STRUCTURES DURING CONSTRUCTION OPERATIONS IS REQUIRED BY THE NEW YORK CITY BUILDING CODE CHAPTER 17.
2. CONTRACTOR SHALL PREPARE A STRUCTURAL STABILITY PLAN, TO BE SUBMITTED TO THE STRUCTURAL ENGINEER (SIGNED AND SEALED BY THE PROFESSIONAL ENGINEERS RESPONSIBLE FOR ITS DESIGN) FOR REVIEW, AND APPROVAL PRIOR TO ANY DEMOLITION WORK OR MODIFICATIONS TO THE EXISTING STRUCTURE. THIS STRUCTURAL STABILITY PLAN SHALL INCLUDE:

   A. LAYOUT AND DETAILS OF SHORING, BRACING, UNDERPINNING AND OTHER WORK REQUIRED TO MAINTAIN THE STABILITY AND INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION OPERATIONS.

   B. PHASING, STAGING, AND SEQUENCING OF SUCH OPERATIONS.

   C. DESIGN LOADS FOR WHICH THE STABILITY SYSTEM HAS BEEN DESIGNED.

3. OWNER SHALL RETAIN A LICENCED PROFESSIONAL ENGINEER TO PERFORM THE STRUCTURAL STABILITY INSPECTION. THE CONTROLLED INSPECTION ENGINEER SHALL MAINTAIN RECORDS AS REQUIRED BY THE NEW YORK CITY BUILDING CODE. THE CONTROLLED INSPECTION ENGINEER SHALL USE THE STRUCURAL STABILITY PLAN PREPARED BY THE CONTRACTOR AND APPROVED BY THE STRUCTURAL ENGINEER AS THE BASIS FOR THE CONTROLLED INSPECTIONS.

BIDDER'S WARRANTY

BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT:

1. THE BIDDER AND ALL SUBCONTRACTORS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND OTHER CONSTRUCTION CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE CONTRACTOR TO BID, FABRICATE, AND INSTALL THE WORK ON TIME, FURTHER THAT,
2. THE BIDDER AND ALL WORKMEN, EMPLOYEES AND SUBCONTRACTORS HE INTENDS TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE CONSTRUCTION CONTRACT DOCUMENTS BID UPON; FURTHER THAT,
3. NEITHER THE BIDDER NOR ANY OF HIS EMPLOYEES, AGENTS INTENDED SUPPLIERS OR SUBCONTRACTORS HAVE RELIED UPON ANY VERBAL REPRESENTATIONS, ALLEGEDLY AUTHORIZED OR UNAUTHORIZED FROM THE OWNER, HIS EMPLOYEES OR AGENTS INCLUDING ARCHITECTS, ENGINEERS OR CONSULTANTS, IN ASSEMBLING THE BID FIGURE; AND FURTHER THAT,THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN ADDENDA AND NOT UPON ANY OTHER WRITTEN REPRESENTATION.
4. THE BIDDER ALSO WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND THAT FROM HIS OWN INVESTIGATIONS HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK AND THE CHARACTER, QUALITY, QUANTITIES OF MATERIALS AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK, THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR ITS PERFORMANCE.

DISCLAIMER:
THE DRAWINGS HEREIN ARE RELATED TO SUPPORT OF EXCAVATION FOR A NEW BUILDING STRUCTURE. THE STRUCTURAL DESIGN WAS BASED UPON AS MUCH OBSERVATION, MEASUREMENT, TESTING, ETC. AS CIRCUMSTANCES PERMITTED, HOWEVER, THERE WERE ASSUMPTIONS MADE ABOUT UNKNOWN CONDITIONS. SHOULD THE OWNER DECIDE NOT TO UTILIZE S.E.T. , P.C. TO VERIFY AND INSPECT THESE CONDITIONS IN THE FIELD, S.E.T. , P.C. WILL NOT BE RESPONSIBLE FOR ANY FAILURE, DAMAGE, INJURY, DELAY, LOSS OF INCOME, EXTRA COST, OR ANY OTHER LOSS DUE TO EXISTING CONDITIONS.

SHOP DRAWING REVIEW:
THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS WITH RESPECT TO CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED IN DUPLICATE. EXCESS DRAWINGS WILL BE DISCARDED. IF REQUIRED BY SPECIFICATIONS, SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED ENGINEER WHO IS LICENSED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, INCLUDING REFLECTION OF EXISTING FIELD CONDITIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR; APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER WILL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION FROM THE CONTRACT UNLESS CONTRACTOR ADVISES THE ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY THE ENGINEER IN WRITING. IN THE EVENT THAT THE ENGINEER WILL REQUIRE MORE THAN TEN (10) WORKING DAYS TO PERFORM REVIEW, THE ENGINEER WILL SO NOTIFY THE CONTRACTOR. THE ENGINEER WILL RETURN WITHOUT REVIEW MATERIAL WHICH HAS NOT BEEN APPROVED BY GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.

FIDUCIARY LIABILITY DECLINED:
S.E.T. , P.C. MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO S.E.T. , P.C. FINDINGS, RECOMMENDATIONS, PLANS, SPECIFICATIONS, OR PROFESSIONAL ADVICE. S.E.T. , P.C. HAS ENDEAVORED AND WILL ENDEAVOR TO PERFORM ITS SERVICES IN ACCORDANCE WITH GENERALLY ACCEPTED STANDARDS OR PRACTICE IN EFFECT AT THE TIME OF PERFORMANCE. BY UTILIZING THESE DOCUMENTS (OR HAVING OTHERS UTILIZE THEM) FOR ANY PURPOSE WHATSOEVER THE OWNER OR DEVELOPER RECOGNIZES THAT NEITHER S.E.T. , P.C. NOR ANY OF S.E.T. , P.C. SUBCONSULTANTS OR SUBCONTRACTORS OWES ANY FIDUCIARY RESPONSIBILITY TO THE OWNER OR DEVELOPER.

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.

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OWNER:

NOTE:
STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. HAS NOT BEEN RETAINED TO PERFORM CONTROLLED INSPECTIONS OF ANY KIND FOR THIS PROJECT.

NO.	DATE:	DESCRIPTION

REVISONS:

FILINGS:

PROJECT

1035 FULTON STREET
BROOKLYN N.Y.

SUPPORT OF EXCAVATION PLAN

DRAWING TITLE:

PLOT PLAN
AND NOTES

SEAL & SIGNATURE

STATE OF NEW YORK
GEORGE J. CAMBRIDGE
No. 061234-1
LICENSED PROFESSIONAL ENGINEER

DATE:	07-18-14
PROJECT NO:	
SCALE:	AS NOTED
DRAWING BY:	M.M.
CHECKED BY:	G.J.C.
DWG NO:	SOE-100.00
SHEET NO:	1 OF 6

BSCAN STICKER

DOB APPROVAL STAMP

Brooklyn
Professional Certification
Accepted for OPPN #1/04
Buildings
Date/Time: 2014/08/05 12:12:59

DEPT OF BLDGS 340168277 Job Number

ES778806423 Scan Code

ADDITIONAL LEGENDS:

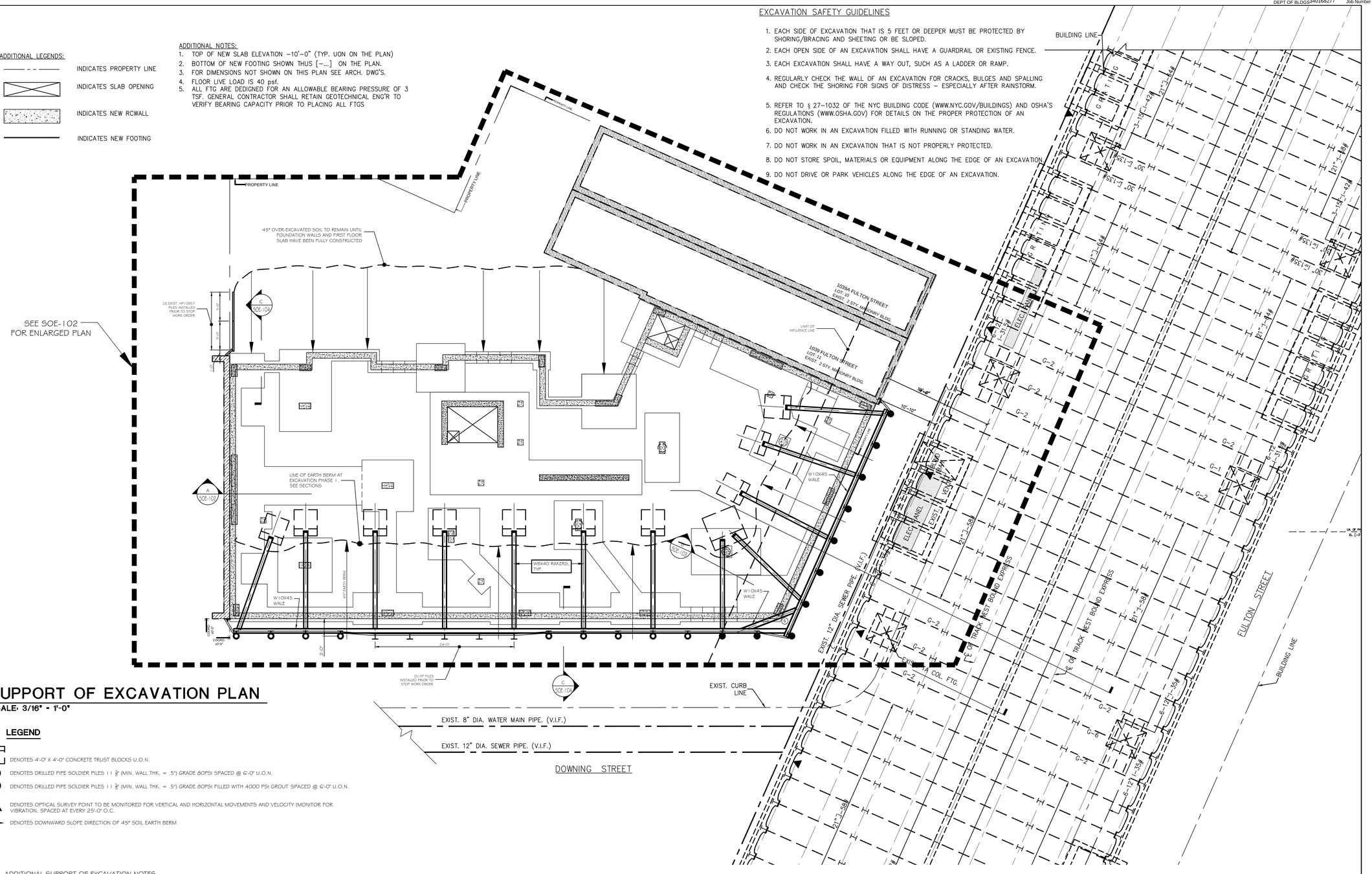
- INDICATES PROPERTY LINE
- INDICATES SLAB OPENING
- INDICATES NEW RCWALL
- INDICATES NEW FOOTING

ADDITIONAL NOTES:

1. TOP OF NEW SLAB ELEVATION –10'–0" (TYP. UON ON THE PLAN)
2. BOTTOM OF NEW FOOTING SHOWN THUS [–...] ON THE PLAN.
3. FOR DIMENSIONS NOT SHOWN ON THIS PLAN SEE ARCH. DWG'S.
4. FLOOR LIVE LOAD IS 40 psf.
5. ALL FTG ARE DEDIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3 TSF. GENERAL CONTRACTOR SHALL RETAIN GEOTECHNICAL ENG'R TO VERIFY BEARING CAPACITY PRIOR TO PLACING ALL FTGS

EXCAVATION SAFETY GUIDELINES

1. EACH SIDE OF EXCAVATION THAT IS 5 FEET OR DEEPER MUST BE PROTECTED BY SHORING/BRACING AND SHEETING OR BE SLOPED.
2. EACH OPEN SIDE OF AN EXCAVATION SHALL HAVE A GUARDRAIL OR EXISTING FENCE.
3. EACH EXCAVATION SHALL HAVE A WAY OUT, SUCH AS A LADDER OR RAMP.
4. REGULARLY CHECK THE WALL OF AN EXCAVATION FOR CRACKS, BULGES AND SPALLING AND CHECK THE SHORING FOR SIGNS OF DISTRESS – ESPECIALLY AFTER RAINSTORM.
5. REFER TO § 27–1032 OF THE NYC BUILDING CODE (WWW.NYC.GOV/BUILDINGS) AND OSHA'S REGULATIONS (WWW.OSHA.GOV) FOR DETAILS ON THE PROPER PROTECTION OF AN EXCAVATION.
6. DO NOT WORK IN AN EXCAVATION FILLED WITH RUNNING OR STANDING WATER.
7. DO NOT WORK IN AN EXCAVATION THAT IS NOT PROPERLY PROTECTED.
8. DO NOT STORE SPOIL, MATERIALS OR EQUIPMENT ALONG THE EDGE OF AN EXCAVATION.
9. DO NOT DRIVE OR PARK VEHICLES ALONG THE EDGE OF AN EXCAVATION.



SUPPORT OF EXCAVATION PLAN

SCALE: 3/16" = 1'-0"

LEGEND

- DENOTES 4'-0" X 4'-0" CONCRETE TRUST BLOCKS U.O.N.
- DENOTES DRILLED PIPE SOLDIER PILES 11 3/4" (MIN. WALL THK. = .5") GRADE 80PSI SPACED @ 6'-0" U.O.N.
- DENOTES DRILLED PIPE SOLDIER PILES 11 3/4" (MIN. WALL THK. = .5") GRADE 80PSI FILLED WITH 4000 PSI GROUT SPACED @ 6'-0" U.O.N.
- DENOTES OPTICAL SURVEY POINT TO BE MONITORED FOR VERTICAL AND HORIZONTAL MOVEMENTS AND VELOCITY (MONITOR FOR VIBRATION. SPACED AT EVERY 25'-0" O.C.
- DENOTES DOWNWARD SLOPE DIRECTION OF 45° SOIL EARTH BERM

ADDITIONAL SUPPORT OF EXCAVATION NOTES

1. [.....] DENOTES BOTTOM OF PROPOSED FOOTING ELEVATION, AND BOT. OF EXCAVATION ELEV. AT FOOTING LOCATIONS
2. CONTRACTOR TO SUBMIT SUPPORT OF EXCAVATION SHOP DWGS. SIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, TO ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL, PRIOR TO START OF WORK. IT IS ALSO RECOMMENDED THAT AN INDEPENDENT LICENSED PROFESSIONAL ENGINEER PERFORM CONTROLLED INSPECTIONS FOR THIS WORK. AND TO BE HIRED BY AND ACT IN THE BEST INTERESTS OF THE OWNER.
3. ALL ELEVATIONS REFER TO BOROUGH OF BROOKLYN TOPOGRAPHICAL DATUM WHICH IS 2.56 FT. ABOVE NATIONAL GEODETIC SURVEY DATUM AT SANDY HOOK, N.J. CONVERSION FOR THIS PROJECT: EL.<66.54'> = EL. 0'-0".
4. PRIOR TO CONSTRUCTION IT IS STRONGLY RECOMMENDED THAT OWNER CONDUCT A CONDITION SURVEY OF ADJACENT PROPERTIES, INCLUDING, DATED PHOTOGRAPHS, IN ORDER TO DOCUMENT PRE-EXISTING CONDITIONS SUCH AS CRACKS, DETERIORATION, ETC.. IF CRACKS EXIST. ON ADJACENT PROPERTIES, IT IS FURTHER RECOMMENDED THAT CRACK MONITORS BE INSTALLED AT LOCATIONS DICTATED BY ENGINEER OF RECORD, AND BE MONITORED
5. PRIOR TO CONSTRUCTION, IT IS RECOMMENDED THAT A MONITORING PLAN BE ESTABLISHED BY OWNER, ENGINEER AND CONTRACTOR FOR MONITORING VIBRATION, SOIL MOVEMENT ETC. DURING EXCAVATION, SHEETING, AND UNDERPINNING OPERATIONS.
   a) SURVEY MONITORING SYSTEM CONSISTING OF CONTROL POINTS ON WALLS OF ALL ADJACENT BUILDINGS SHALL BE INSTALLED TO MONITOR MOVEMENTS EVERY TWO DAYS AS UNDERPINNING / SHEETING / PILING WORK IS PROCEEDING. ENGINEER OF RECORD TO BE NOTIFIED IMMEDIATELY OF ANY STRUCTURE MOVEMENTS.
   b) MAXIMUM SOIL PARTICLE VELOCITY SHALL BE 0.2 INCHES PER SECOND
6. PRIOR TO CONSTRUCTION, NEW YORK STATE LICENSED LAND SURVEYOR TO ESTABLISH VERTICAL WALL PLANES ALONG PROPERTY LINES, IN ORDER TO LOCATE ANY PROPERTY LINE INCURSIONS BY ADJACENT BUILDINGS ONTO THIS SITE. IF SUCH INCURSIONS OCCUR (I.E. TOP OF ADJACENT BUILDING "LEANS" INTO THIS SITE, ETC.) CONTRACTOR MUST ADJUST BUILDING WALL LINES ACCORDINGLY.
7. ELEVATIONS SHOWN ON PLAN ARE BASED ON INFO. FROM SITE SURVEY, PREPARED BY RAMSAN ALLI NY LAND SURVEYOR, P.C. DATED DEC. 10, 2012
8. OWNER / CONTRACTOR TO OBTAIN WRITTEN PERMISSION/CONSENT FROM ADJACENT BLDG. OWNERS TO PLACE SOLDIER PILES, LAGGING, AND ANY OTHER TEMPORARY WORK WITHIN THEIR PROPERTY, AND WRITTEN PERMISSION TO RESTORE SAME PROPERTY TO ORIGINAL CONDITION.
9. THOUGH USUALLY SMALL, SETTLEMENT NEARLY ALWAYS ACCOMPANIES EXCAVATION / UNDERPINNING / SHEETING WORK. THE AMOUNT OF SETTLEMENT, IF ANY, WILL VARY BASED ON THE TYPE OF BUILDING, THE CLASS OF SOILS UPON WHICH IT RESTS, THE PRESENCE OR ABSENCE OF GROUNDWATER, THE RESERVE FOUNDATION LOAD CAPACITY OF THE ORIGINAL FOUNDATION AND THE EXCELLENCE CARE OF THE WORKMANSHIP OF THE CONTRACTOR INSTALLING THE EXCAVATION / UNDERPINNING / SHEETING. BY USING THESE DRAWINGS TO COMPLETE THE EXCAVATION / UNDERPINNING / SHEETING WORK THE CONTRACTOR AND THE OWNER UNDERSTAND THE INHERENT RISK AND ASSUME ALL RESPONSIBILITY FOR THE EFFECTS OF ANY SETTLEMENT THAT MIGHT OCCUR. ALL EXCAVATION / UNDERPINNING / SHEETING WORK SHALL BE STOPPED IMMEDIATELY AND THE ENGINEER OF RECORD FOR SOE SHALL BE NOTIFIED IF SETTLEMENTS AND / OR ANY OTHER BLDG. MOVEMENTS SHOULD EXCEED 1/4".
10. NO LANDMARKED BUILDINGS ARE LOCATED WITHIN 90 FT. OF PROPERTY LINES, OWNER AND ARCHITECT TO VERIFY. OTHERWISE, CONTRACTOR TO FOLLOW PROVISIONS OF TPPN 10/88 FOR PROTECTION OF LANDMARKED BUILDINGS DURING THIS WORK

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OWNER:

NOTE:
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NO.	DATE:	DESCRIPTION

REVISONS:

FILINGS:

PROJECT

1035 FULTON STREET
BROOKLYN N.Y.

SUPPORT OF EXCAVATION PLAN

DRAWING TITLE:

SUPPORT OF EXCAVATION PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · GEORGE J. CAMBRIDGE · No. 061234 · LICENSED PROFESSIONAL ENGINEER

DATE:	07-18-14
PROJECT NO:	
SCALE:	AS NOTED
DRAWING BY:	M.M.
CHECKED BY:	G.J.C.
DWG NO:	SOE-101.00
SHEET NO:	2 OF 6

BSCAN STICKER

DOB APPROVAL STAMP

Brooklyn Professional Certification Accepted for OPPN #1/04 Buildings
Date/Time: 2014/08/05 12:12:59

DEPT OF BLDGS 340168277 Job Number

ES451967370 Scan Code

EXCAVATION SAFETY GUIDELINES

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4. REGULARLY CHECK THE WALL OF AN EXCAVATION FOR CRACKS, BULGES AND SPALLING AND CHECK THE SHORING FOR SIGNS OF DISTRESS – ESPECIALLY AFTER RAINSTORM.
5. REFER TO § 27–1032 OF THE NYC BUILDING CODE (WWW.NYC.GOV/BUILDINGS) AND OSHA'S REGULATIONS (WWW.OSHA.GOV) FOR DETAILS ON THE PROPER PROTECTION OF AN EXCAVATION.
6. DO NOT WORK IN AN EXCAVATION FILLED WITH RUNNING OR STANDING WATER.
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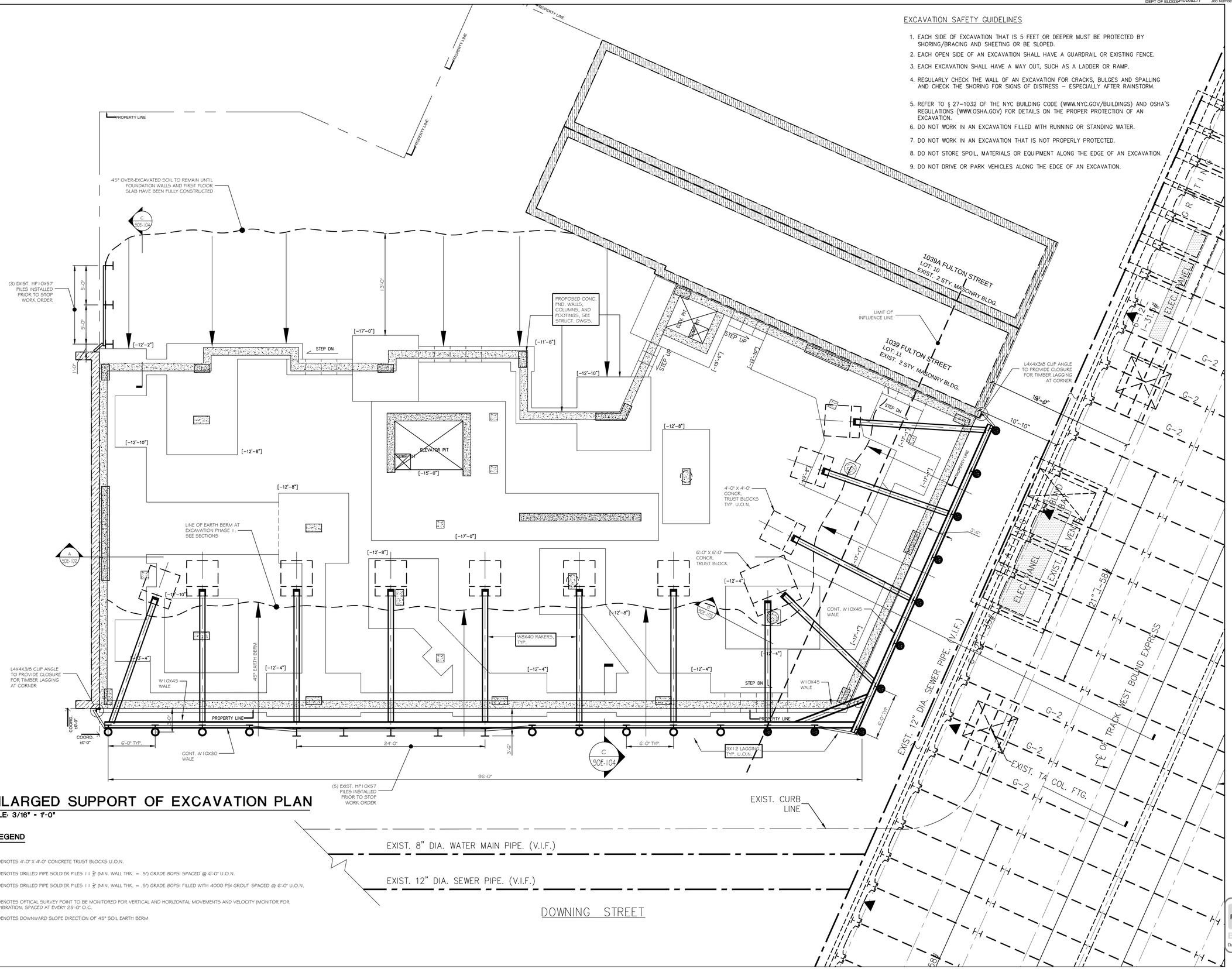
9. DO NOT DRIVE OR PARK VEHICLES ALONG THE EDGE OF AN EXCAVATION.



ENLARGED SUPPORT OF EXCAVATION PLAN

SCALE: 3/16" = 1'-0"

LEGEND

- DENOTES 4'-0" X 4'-0" CONCRETE TRUST BLOCKS U.O.N.
- DENOTES DRILLED PIPE SOLDIER PILES 11 3/4" (MIN. WALL THK. = .5") GRADE 80PSI SPACED @ 6'-0" U.O.N.
- DENOTES DRILLED PIPE SOLDIER PILES 11 3/4" (MIN. WALL THK. = .5") GRADE 80PSI FILLED WITH 4000 PSI GROUT SPACED @ 6'-0" U.O.N.
- DENOTES OPTICAL SURVEY POINT TO BE MONITORED FOR VERTICAL AND HORIZONTAL MOVEMENTS AND VELOCITY (MONITOR FOR VIBRATION. SPACED AT EVERY 25'-0" O.C.
- DENOTES DOWNWARD SLOPE DIRECTION OF 45° SOIL EARTH BERM

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.

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OWNER:

NOTE:
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NO.	DATE:	DESCRIPTION

REVISONS:

FILINGS:

PROJECT

1035 FULTON STREET
BROOKLYN N.Y.

SUPPORT OF EXCAVATION PLAN

DRAWING TITLE:

ENLARGED SUPPORT OF EXCAVATION PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · GEORGE J. CAMBRIDGE · No. 061244 · LICENSED PROFESSIONAL ENGINEER

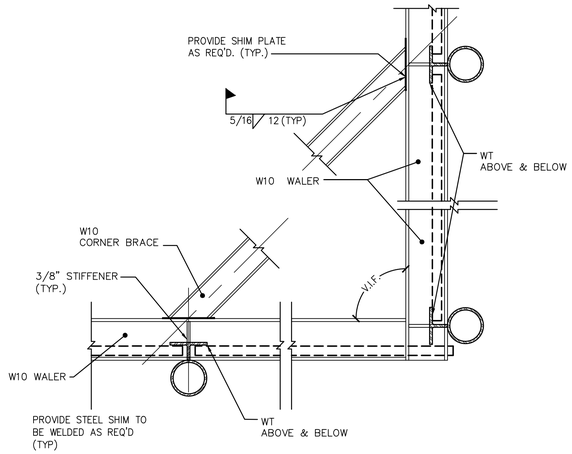
DATE:	07-18-14
PROJECT NO:	
SCALE:	AS NOTED
DRAWING BY:	M.M.
CHECKED BY:	G.J.C.
DWG NO:	SOE-102.00
SHEET NO:	3 OF 6

BSCAN STICKER

DOB APPROVAL STAMP

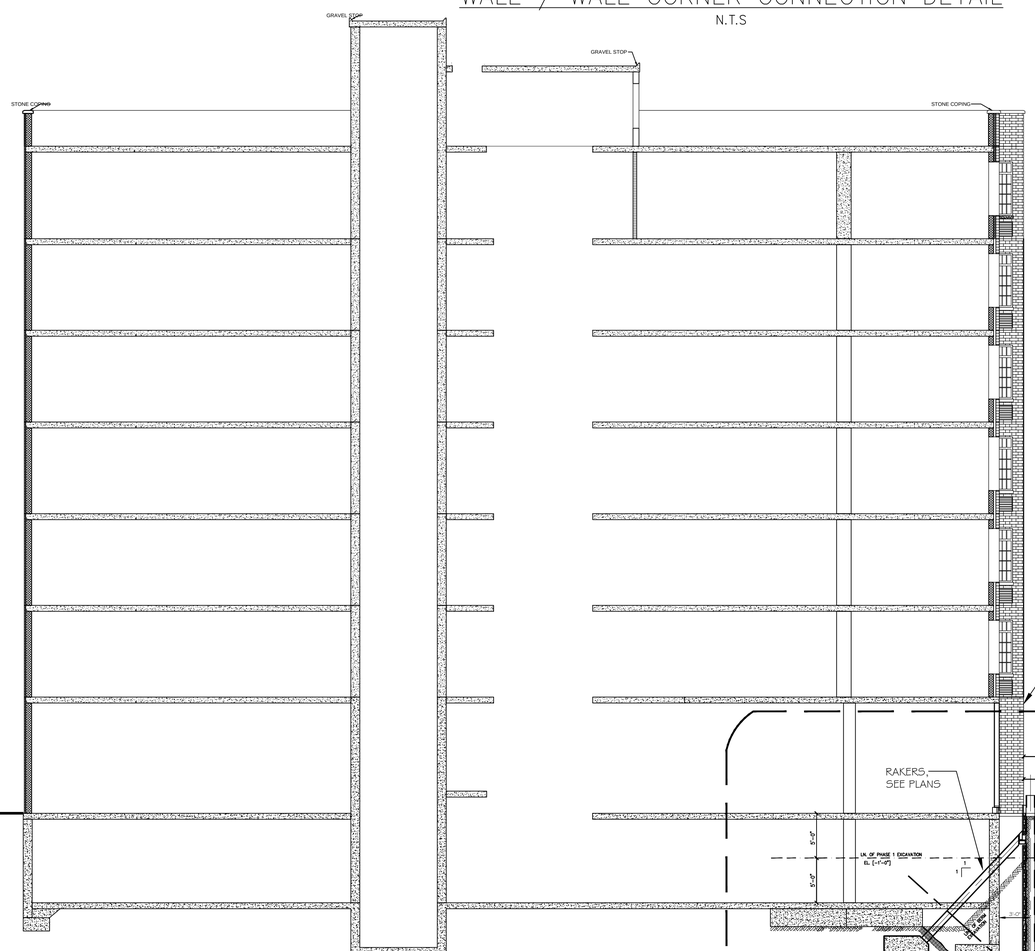
Brooklyn
Professional Certification
Accepted for OPPN #:104
Buildings
Date/Time: 2014/08/05 12:12:59

DEPT OF BLDGS 340168277 Job Number
ES424374744 Scan Code



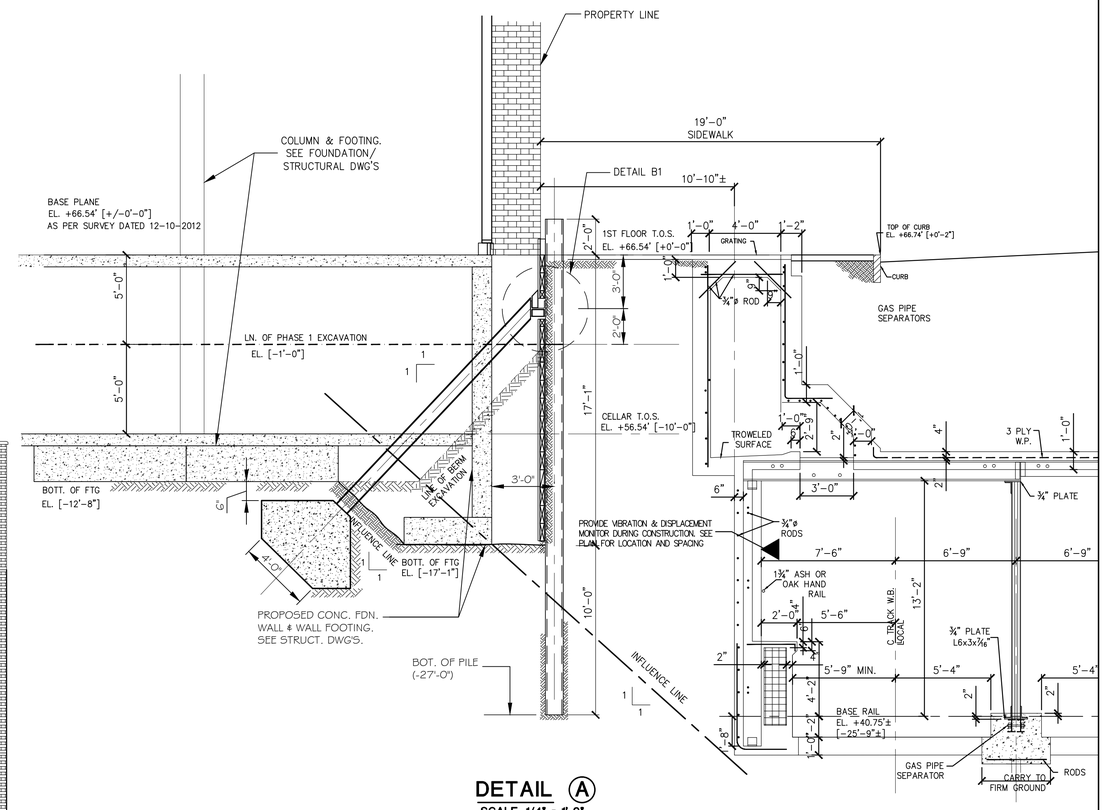
WALE / WALE CORNER CONNECTION DETAIL

N.T.S



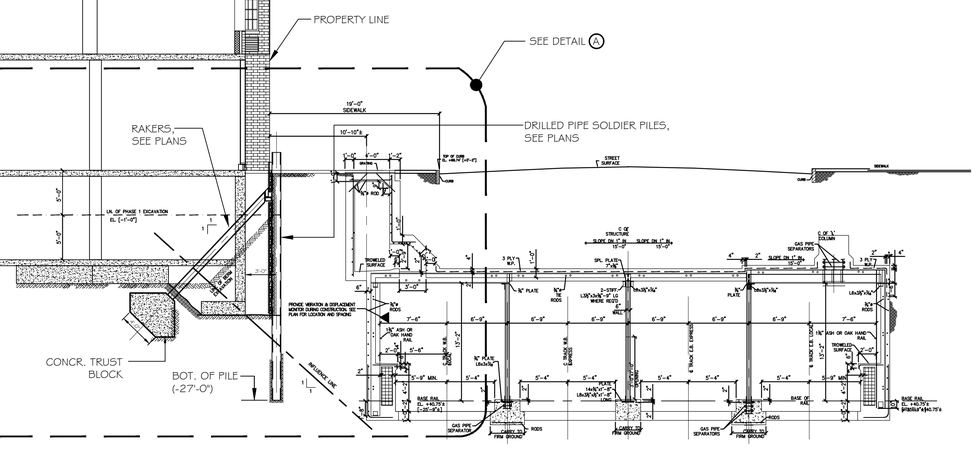
BUILDING SECTION A

SCALE: 1/8" = 1'-0"



DETAIL Ⓐ

SCALE: 1/4" = 1'-0"



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OWNER:

NOTE:
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NO.	DATE:	DESCRIPTION

REVISONS:

FILINGS:

PROJECT

1035 FULTON STREET
BROOKLYN N.Y.

SUPPORT OF EXCAVATION PLAN

DRAWING TITLE:

SECTIONS AND DETAILS

SEAL & SIGNATURE

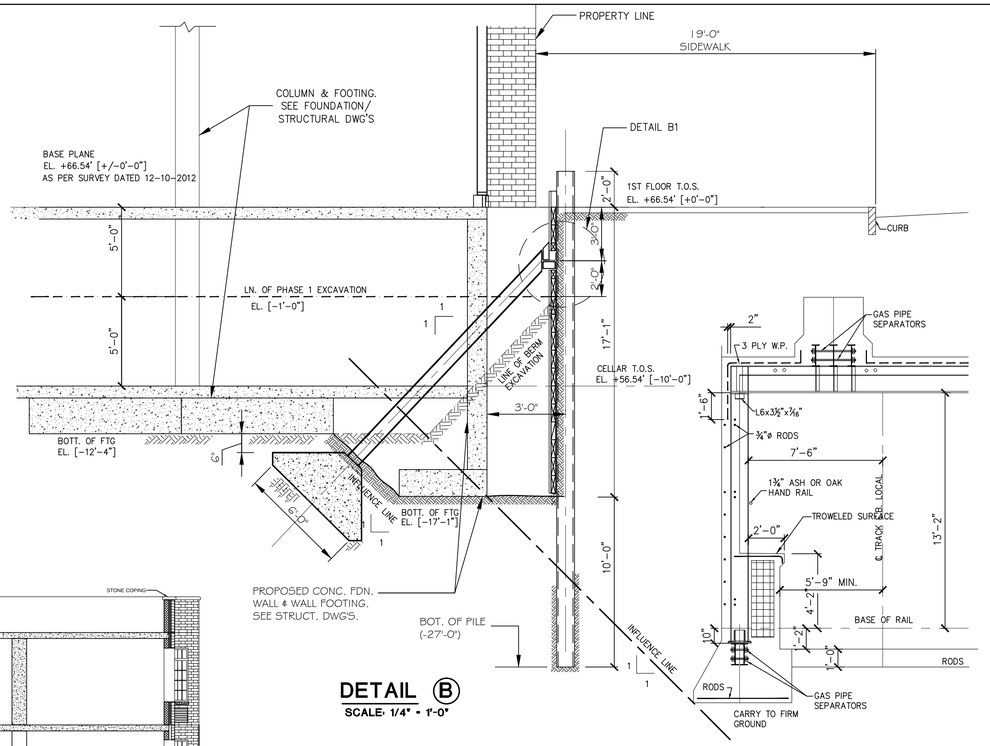
STATE OF NEW YORK
GEORGE J. CAMBRIDGE
No. 060244-1
LICENSED PROFESSIONAL ENGINEER

DATE:	07-18-14
PROJECT NO:	
SCALE:	AS NOTED
DRAWING BY:	M.M.
CHECKED BY:	G.J.C.
DWG NO:	SOE-103.00
SHEET NO:	4 OF 6

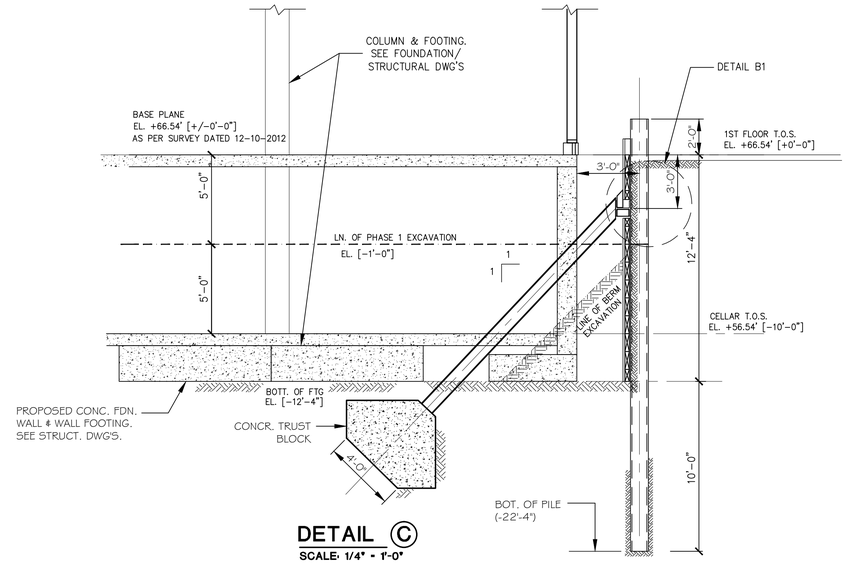
BSCAN STICKER

DOB APPROVAL STAMP

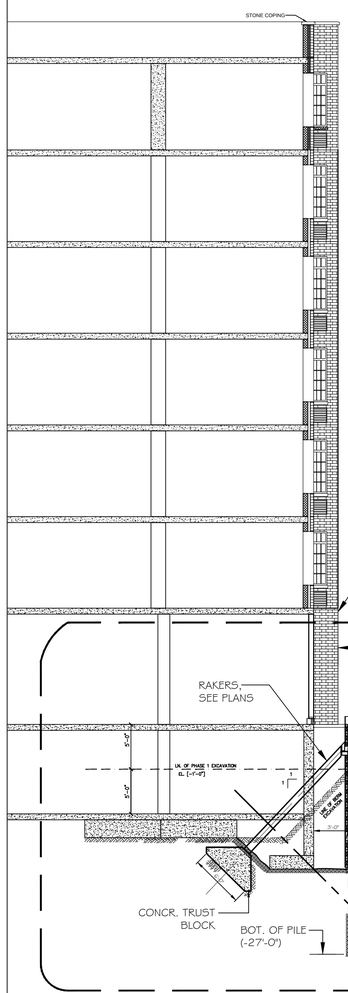
Brooklyn
Professional Certification
Accepted for OPPN #1/04
Buildings
Date/Time: 2014/08/05 12:12:59



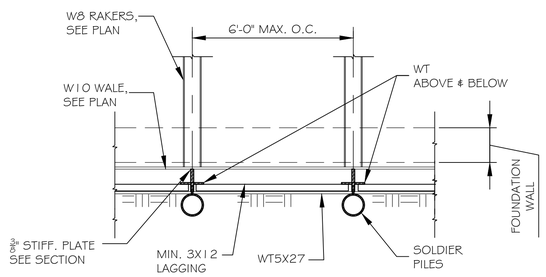
DETAIL Ⓑ
SCALE: 1/4" = 1'-0"



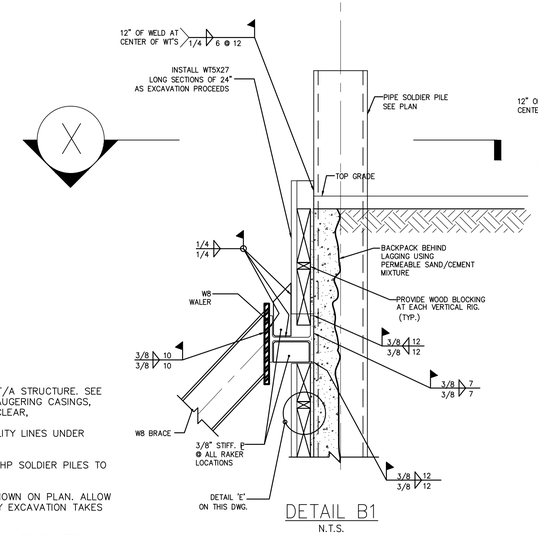
DETAIL Ⓒ
SCALE: 1/4" = 1'-0"



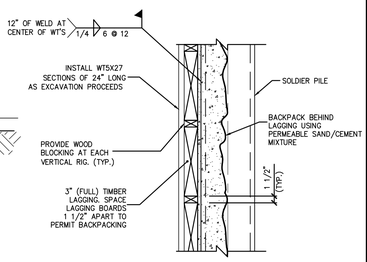
BUILDING SECTION B
SCALE: 1/8" = 1'-0"



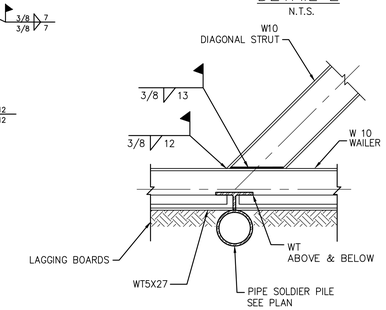
SECTION Ⓧ
SCALE: 3/8"=1'-0"



DETAIL B1
N.T.S.



DETAIL E
N.T.S.



WALE/DIAGONAL STRUT CONNECTION
SCALE: 1/2"=1'-0"

SEQUENCE OF CONSTRUCTION

1. INSTALL VIBRATION MONITORING DEVICE FOR T/A STRUCTURE. SEE PLAN AND SECTION FOR LOCATION. BEFORE AUGERING CASINGS, CONTRACTOR TO VERIFY LOCATION OF, AND CLEAR,
2. CONTRACTOR TO LOCATE AND MARK ALL UTILITY LINES UNDER SIDEWALK.
3. DRILL SOLDIER PILES AND INSTALL VIBRATED HP SOLDIER PILES TO THE DESIGNATED BOT. OF PILE ELEVATIONS.
4. GROUT THE ASSIGNED PIPE SOLDIER PILES SHOWN ON PLAN. ALLOW MIN. 7 DAYS FOR GROUT CURING BEFORE ANY EXCAVATION TAKES PLACE.
5. EXCAVATE TO EL. [-1'-0"] +61.54. EXCAVATION TO PROCEED IN TIERS NOT TO EXCEED 2 FEET IN HEIGHT AND PHASE AS SHOWN ON SOE-100. LAGGING TO BE BACKPACKED BEFORE EXCAVATING NEXT TIER.
6. INSTALL WALE WITH CENTERLINE AT EL. 71.71 [+5'-0"]. WELD WALE TO EVERY SOLDIER BEAM AS SHOWN AND SHORING BETWEEN SOLDIER BEAM AND WALE WHEREVER NECESSARY TO INSURE CONTACT BETWEEN SOLDIER BEAM AND WALE. INSTALL DIAGONAL STRUT. LEAVING SOIL BERM UP AGAINST SOLDIER BEAMS, EXCAVATE LOCALLY FOR
7. EXCAVATE TO EL. [-12'-8"] +53.29. MAINTAIN 45 DEGREE BERM FROM AROUND PERIMETER.
8. CONSTRUCT CONCRETE THRUST BLOCKS EMBEDDED 6" BELOW SOIL. SEE TYP DETAILS.
9. PILES AT TOP AS SHOWN, AND WEDGING STEEL WEDGES AT BOTTOM TO ELIMINATE ALL SLACK FROM SYSTEM.
10. REMOVE BERM FROM PERIMETER. EXCAVATE TO SUB-GRADE ELEVATION +47.29 [-17'-1"] OR [-12'-8"] +53.29 (SEE PLAN) CONTINUING TO INSTALL TIMBER LAGGING AS EXCAVATION PROGRESSES. EXCAVATION TO PROCEED IN TIERS NOT TO EXCEED 2 FEET IN HEIGHT. LAGGING TO BE BACKPACKED BEFORE EXCAVATING NEXT TIER.
11. TIMBER LAGGING BOARDS SHALL BE "LOUVERED", THAT IS SPACED 1 1/2" TO 2" APART TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS BEHIND THE LAGGING. LAGGING SHALL BE BACKPACKED WITH PERMEABLE MATERIAL TO PREVENT ANY BUILD-UP OF HYDROSTATIC PRESSURE BEHIND SHEETING. SEE "DETAIL E." INSTALL ALL FOOTING FOR COLUMNS, SHEAR WALLS AND PERIMETER WALLS
12. INSTALL ALL SLAB ON GRADE AT ELEVATIONS AS SHOWN ON PLAN
13. INSTALL COLUMNS, SHEAR AND WALLS PERIMETER WALLS
14. INSTALL FIRST FLOOR FRAMED SLAB AT ELEVATION SHOWN ON PLAN.
15. AFTER 21 DAYS OF CONCRETE CURING, EXCAVATE AND EXPOSE SOLDIER PILES AND LOGGING 2 FT BELOW FUTURE SIDEWALK ELEVATION. CUT RAKERS, WALERS, SOLDIER PILES AND LOGGING. FILL 2'-0" SPACE WITH COMPACTED FILL

DRILLED SOLDIER PILE INSTALLATION PROCEDURE:

1. MOBILIZATION TO SITE
2. SET UP RIG ON PROPER LOCATION AND PLUMB MAST.
3. DRILL IN PILES USING DUPLEX DRILLING METHODS. FLUSH WITH WATER ONLY. NOTE: WHEN CLEANING THE INSIDE CASING, 2-DIAMETERS OR TWO FOOT SHOULD BE MAINTAINED BEHIND THE TIP OF THE OUTER CASING.
4. CASING IS DRILLED-IN TO THE BOTTOM OF THE PIPE SOLDIER PILE AS INDICATED ON DRAWINGS.
5. FLUSH HOLE CLEAN OF SPOILS. IF PILE TIP IS BELOW GWT, FLUID LEVEL INSIDE CASING TO BE MAINTAINED AT TOP OF PILE DURING CLEAN OUT. A BUCKET OR AUGER MAY BE USED TO CLEAN HOLE. (AIR MAY BE USED IN COMPACTED TILL OR ROCK.)
6. PLACE 3/4-INCH DIAMETER PVC GROUT TUBE TO WITHIN 2-FEET OF BOTTOM OF CASING, AND GROUT THE PILE FROM THE BOTTOM TO DISPLACE THE DRILLING FLUID. CONTINUE GROUTING UNTIL GOOD GROUT FLOWS OUT THE TOP OF THE PILE.

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.

CONSULTING STRUCTURAL AND FOUNDATION ENGINEERS

40-12 28TH STREET
LONG ISLAND CITY, NY 11101
T(718)706-7196 F(718)472-4464

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OWNER:

NOTE:
STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. HAS NOT BEEN RETAINED TO PERFORM CONTROLLED INSPECTIONS OF ANY KIND FOR THIS PROJECT.

NO.	DATE:	DESCRIPTION

REVISONS:

FILINGS:

PROJECT

1035 FULTON STREET
BROOKLYN N.Y.

SUPPORT OF EXCAVATION PLAN

DRAWING TITLE:

SECTIONS AND DETAILS

SEAL & SIGNATURE

STATE OF NEW YORK · GEORGE J. CAMBRIDGE · No. 060224-1 · LICENSED PROFESSIONAL ENGINEER

DATE:	07-18-14
PROJECT NO:	
SCALE:	AS NOTED
DRAWING BY:	M.M.
CHECKED BY:	G.J.C.
DWG NO:	SOE-104.00
SHEET NO:	5 OF 6

BSCAN STICKER

DOB APPROVAL STAMP

Brooklyn Professional Certification Accepted for OPPN #1/04 Buildings
Date/Time: 2014/08/05 12:12:59

DEPT OF BLDGS 340168277 Job Number
ES446291053 Scan Code

GENERAL EXCAVATION NOTES

1. CONTRACTOR TO CALL 811 BEFORE ANY EXCAVATION BEGINS, FOR UTILITY COMPANIES TO MARK-OUT ALL EXISTING UNDERPINNING UTILITY LINES.

2. ALL WORK PERTAINING TO SHEETING, BRACING, SUPPORT OF ADJOINING LOTS AND SIDEWALKS, PLACEMENT OF FOUNDATION CONCRETE ON SOIL SUBGRADE IS SUBJECT TO SPECIAL / CONTROLLED INSPECTION.

3. PROPER NOTICES SHALL BE GIVEN FOR PERFORMANCE OF THE CONTROLLED INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC BLDG. CODE: "BEFORE ANY WORK IS COMMENCED ON AN ITEM OF CONSTRUCTION REQUIRING CONTROLLED INSPECTION, ALL PERSONS RESPONSIBLE FOR SUCH CONTROLLED INSPECTION SHALL BE NOTIFIED IN WRITING AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT".

4. NOTICE SHALL BE PROVIDED BY THE PROJECTS OWNER TO ADJOINING PROPERTY OWNERS IN ACCORDANCE WITH THE NYC BLDG. CODE: "NO FOUNDATION OR EARTHWORK PERMIT SHALL BE ISSUED UNLESS AND UNTIL AT LEAST FIVE DAYS PRIOR WRITTEN NOTICE OF THE PERMIT APPLICATION SHALL HAVE BEEN GIVEN BY THE APPLICANT TO THE OWNERS OF ALL ADJOINING LOTS, BUILDINGS AND SERVICE FACILITIES WHICH MAY BE AFFECTED BY THE PROPOSED FOUNDATION WORK OR EARTHWORK OPERATIONS".

5. NOTICE SHALL BE PROVIDED BY THE PROJECTS OWNER TO ADJOINING PROPERTY OWNERS IN ACCORDANCE WITH THE NYC BLDG. CODE: "AT LEAST 24 HOURS WRITTEN NOTICE SHALL BE GIVEN TO NYCDOB COMMISSIONER BEFORE THE COMMENCEMENT OF ANY WORK FOR WHICH A PERMIT HAS BEEN ISSUED" CONTRACTOR TO CALL THE NYCDOB AT 212-227-4416.

6. ALL WORK PERFORMED IN CONNECTION WITH SHEETING, BRACING, UNDERPINNING, EXCAVATION SHALL ADHERE TO THE APPLICABLE PROVISIONS OF THE NEW YORK CITY BUILDING CODE, THE NEW YORK STATE CODE, REGULATIONS OF THE NEW YORK STATE DEPARTMENT OF LABOR AND OSHA.

7. PRIOR TO COMMENCEMENT OF MASS EXCAVATION, THE ADJOINING PROPERTIES AND STREETS SHALL BE VISUALLY SURVEYED BY THE CONTRACTOR, SUITABLY MARKED WITH PERMANENT MONITORING POINTS TO BE MEASURED DURING CONSTRUCTION FOR THE PURPOSES OF DETERMINING CONSTRUCTION-RELATED EFFECTS. REPORT WITH PHOTOGRAPHS SHALL BE PROVIDED TO ARCHITECT AND ENGINEER IN TRIPLICATE COPIES. A PRECONSTRUCTION DAMAGE CONDITION SURVEY OF THE ADJOINING PROPERTIES SHALL BE MADE IN WRITTEN AND PICTORIAL FORM, AND TWO COPIES SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE.

8. ANY WATER INFLOW INTO THE EXCAVATION SHALL BE CONTROLLED BY SUMPING OR OTHER SUITABLE METHODS. DISPOSAL OF WATER SHALL BE MADE OUT OF THE EXCAVATED AREA IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELEVATION OF THE WATER LEVELS BEYOND THE LIMITS OF THE PROJECT SITE SHALL NOT BE LOWERED SO AS TO CAUSE DISTRESS AND / OR SETTLEMENT TO ADJOINING STRUCTURES.

9. A COMPETENT REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUBGRADE OF THE EXCAVATION, ANY AND ALL BRACING AND BLOCKING, AT THE COMMENCEMENT OF EACH SHIFT, TO ASSURE INTEGRITY, PRIOR TO PERMITTING WORKMEN TO WORK WITHIN ANY EXCAVATED AREA. ALL SIDES OR SLOPES OF EXCAVATIONS SHALL BE INSPECTED FOR STABILITY AFTER RAINSTORMS.

10. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY EXCAVATION RESTRAINT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT. IF A SHEETING OR BRACING SYSTEM IS TO BE UTILIZED, THE DETAILS ARE TO BE SHOWN ON SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER OF RECORD BEFORE COMMENCEMENT OF WORK.

11. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SUBGRADE CONDITIONS PRIOR TO START OF WORK. THESE DRAWINGS DISCOUNT UNDERGROUND WATER CONDITIONS.

12. THOUGH USUALLY SMALL, SETTLEMENT NEARLY ALWAYS ACCOMPANIES EXCAVATION / UNDERPINNING / SHEETING WORK. THE AMOUNT OF SETTLEMENT, IF ANY, WILL VARY BASED ON THE TYPE OF BUILDING, THE CLASS OF SOILS UPON WHICH IT RESTS, THE PRESENCE OR ABSENCE OF GROUNDWATER, THE RESERVE FOUNDATION LOAD CAPACITY OF THE ORIGINAL FOUNDATION AND THE EXCELLENCE AND CARE OF THE WORKMANSHIP OF THE CONTRACTOR INSTALLING THE EXCAVATION / UNDERPINNING / SHEETING. BY USING THESE DRAWINGS TO COMPLETE THE EXCAVATION / UNDERPINNING / SHEETING WORK THE CONTRACTOR AND THE OWNER UNDERSTAND THE INHERENT RISK AND ASSUME ALL RESPONSIBILITY FOR THE THE EFFECTS OF ANY SETTLEMENT THAT MIGHT OCCUR. ALL EXCAVATION / UNDERPINNING / SHEETING WORK SHALL BE STOPPED IMMEDIATELY AND THE ENGINEER OF RECORD SHALL BE NOTIFIED IF SETTLEMENTS SHOULD EXCEED 1/4".

13. NO DEWATERING IS ANTICIPATED FOR THE PROJECT, HOWEVER, SHOULD THE GROUNDWATER TABLE FLUCTUATE DUE TO SEASONAL, TIDAL, OR MAN-MADE CONDITIONS, THE SITE SHALL BE DEWATERED AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING THAT MAY BE REQUIRED FOR THIS PROJECT.

14. EXCAVATION ELEVATIONS SHOWN ON PLANS ARE BASED ON ELEVATIONS SHOWN ON DESIGN STRUCTURAL/ARCH. DRAWINGS. ADDITIONAL EXCAVATION MAY BE REQUIRED AS PER STRUCTURAL DESIGN AND CONSTRUCTION REQUIREMENTS.

15. ALL EXCAVATION GREATER THAN 5 FEET IN DEPTH SHALL BE SHEETED, OR LAGGED AND BRACED.

16. MAINTAIN THE SIDES OF EXCAVATION WITH SHEETING HELD IN PLACE BY SOLDIER BEAMS, WALERS AND RAKERS/BRACES.

17. PROVIDE THE REACTION TO THE BRACING BY PRE-LOADING OR, BY THE USE OF SUITABLE WEDGES PROPERLY DRIVEN INTO THE JOINTS UNTIL THE NECESSARY REACTION IS PRODUCED AGAINST THE BANKS.

18. CONSTRUCT THE TIMBER LAGGING SO AS TO PREVENT THE MOVEMENT OF THE NATURAL GROUND BEHIND, AND INSTALL IN FULL BEARING AGAINST THE PLANKS. FILL VOIDS BEHIND THE TIMBER LAGGING WHEN NECESSARY TO OBTAIN SUCH BEARING. PLACE TIMBER LAGGING SO AS NOT TO DAMAGE ADJACENT CONSTRUCTION. DO NOT EXCAVATE BELOW THE BOTTOM OF TIMBER LAGGING.

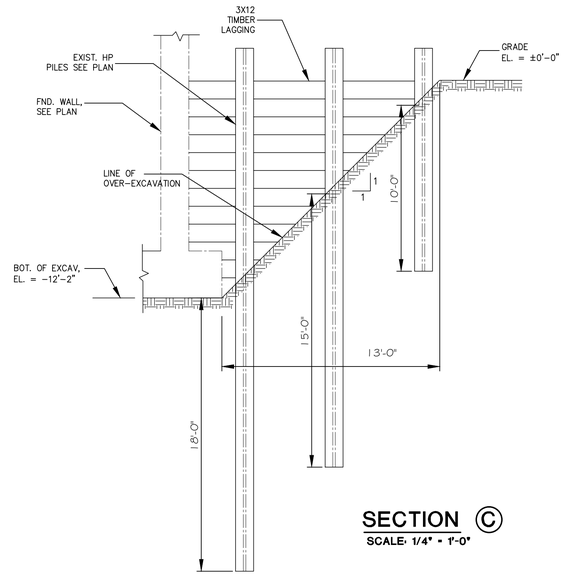
19. NO MATERIAL STORAGE TO BE PLACED WITHIN 10 FEET OF EXCAVATION PERIMETER

20. PROVIDE 3" DIAM. DRAINAGE HOLES IN WOOD LAGGING AT EVERY SOLDIER PILE SPACED 8 FEET VERTICALLY FROM THE TOP OF EXCAVATION LEVEL.

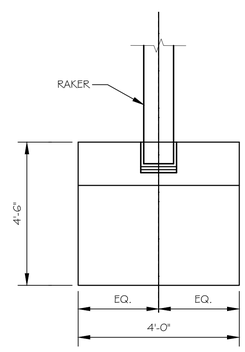
21. BOTTOM OF EXCAVATION ELEVATION AS SHOWN ON DRAWINGS TO BE VERIFIED AND COORDINATED IN FIELD WITH CONTRACT DOCUMENTS.

22. USED HAND TOOLS TO EXCAVATE WITHIN 5 FEET OF UNDERGROUND UTILITIES.

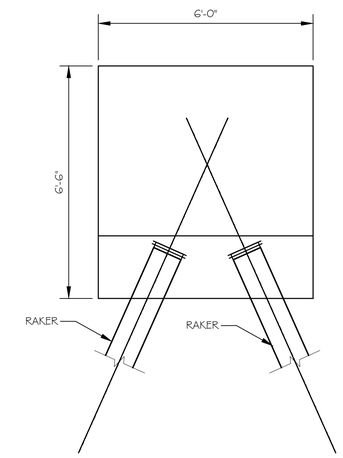
23. PROVIDE BLOCK OUTS IN CONCRETE STRUCTURE WHERE SHORING STRUCTURE ELEMENTS PENETRATE. NEW FDN. WALL. USE HIGH DENSITY FOAM.



SECTION Ⓒ
SCALE: 1/4" = 1'-0"



PLAN DETAIL OF THRUST BLOCK
N.T.S.



PLAN DETAIL OF 6X6 THRUST BLOCK
N.T.S.

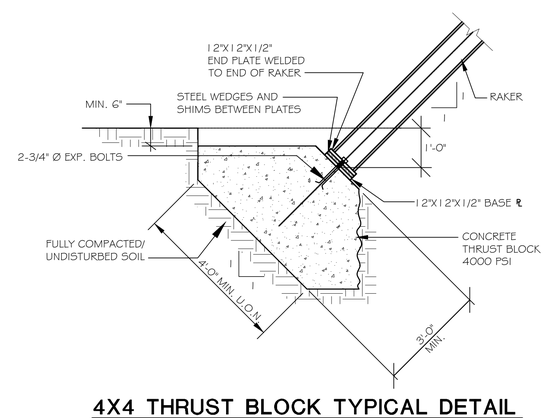
SHEETING MATERIALS:

1. TIMBER PLANKS (LAGGING) SHALL BE MINIMUM 3" THICK, SOUTHER PINE NO. 2 OR BETTER WITH MINIMUM fb = 1400 PSI OR APPROVED EQUAL, AS PER NFPA/NDS SPECIFICATION LATEST EDITION.

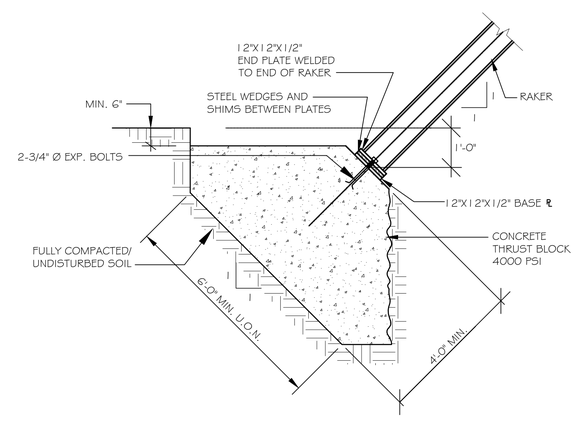
2. ALL STEEL MEMBERS SHALL CONFORM TO ASTM A572/A992 GRADE 50. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL FOR STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN.

3. ALL CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS.

4. ALL SOLDIER PILES TO BE GRADE 80 KSI



4X4 THRUST BLOCK TYPICAL DETAIL
SCALE: 1/2" = 1'-0"



6X6 THRUST BLOCK TYPICAL DETAIL
SCALE: 1/2" = 1'-0"

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NOTE:
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NO.	DATE:	DESCRIPTION

REVISONS:

FILINGS:

PROJECT

1035 FULTON STREET
BROOKLYN N.Y.

SUPPORT OF EXCAVATION PLAN

DRAWING TITLE:

SECTIONS, NOTES, & DETAILS

SEAL & SIGNATURE

STATE OF NEW YORK · GEORGE J. CAMBOURIS · LICENSED PROFESSIONAL ENGINEER · No. 080244-1

DATE:	07-18-14
PROJECT NO:	
SCALE:	AS NOTED
DRAWING BY:	M.M.
CHECKED BY:	G.J.C.
DWG NO:	SOE-105.00
SHEET NO:	6 OF 6

BSCAN STICKER

DOB APPROVAL STAMP

Brooklyn Professional Certification Accepted for OPPN #1/04
Buildings
Date/Time: 2014/08/05 12:12:59

APPENDIX D
Project Photographs

Photo 1. View of initial stage of historic fill removal.

Photo 2. Additional view of historic fill removal.

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Photo 3. Additional view of historic fill removal.

Photo 4. View of stabilized construction entrance and final stages of historic fill removal.

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Phone 631.504.6000
Fax 631.924.2870

Photo 5. View of clean native soil excavation.

Photo 6. View of a portion of the building foundation walls poured. Excavated rear courtyard visible on far right.

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Phone 631.504.6000
Fax 631.924.2870

Photo 7. Additional view of excavated rear courtyard.

Photo 8. View of vapor barrier installed below footings.

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Photo 9. View of vapor barrier being installed behind foundation walls.

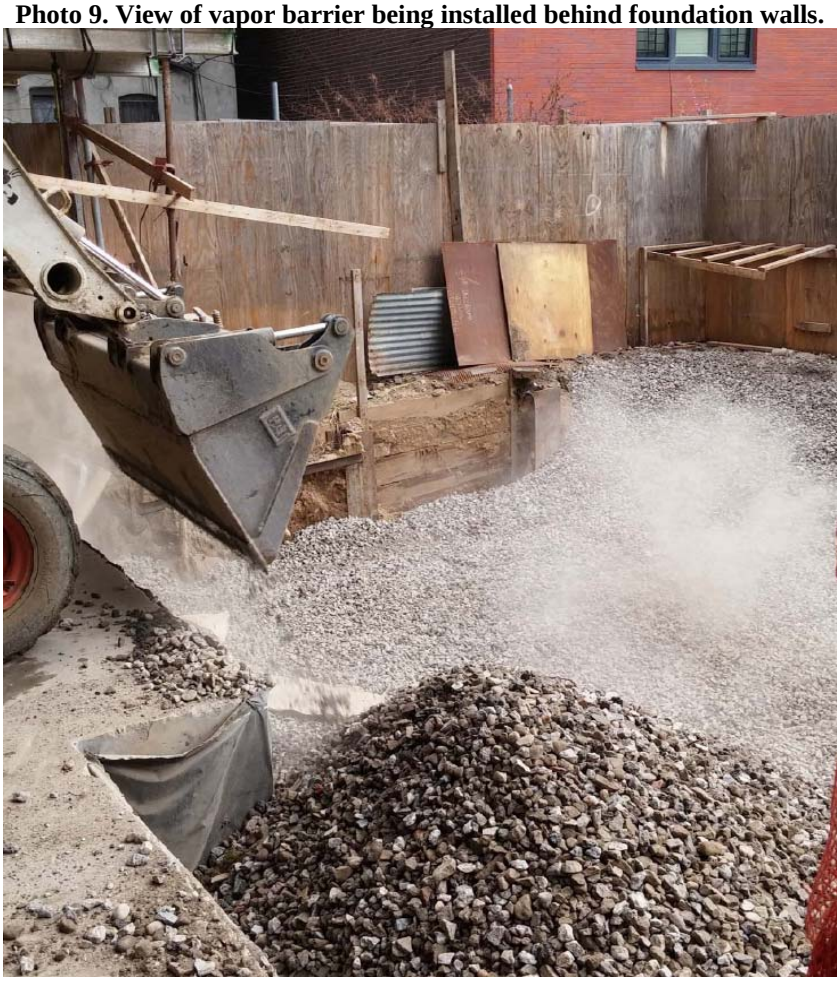

Photo 10. View of rear courtyard being backfilled with RCA.

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

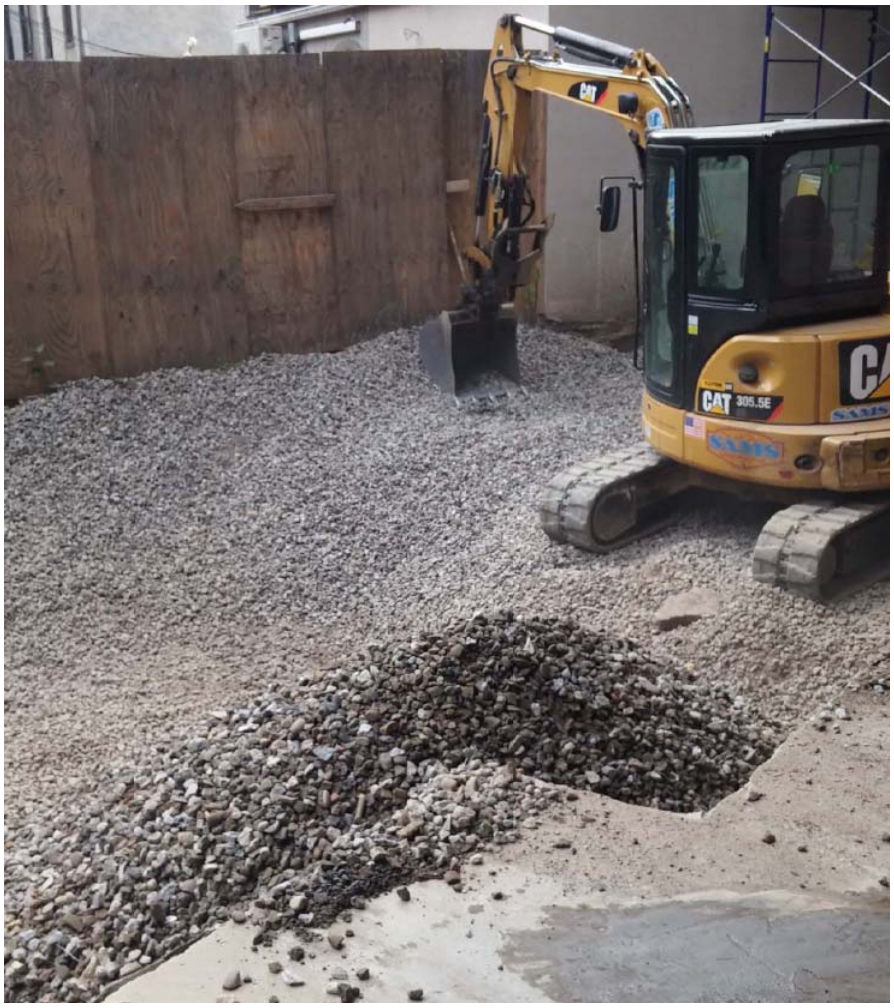

Photo 11. Additional view of rear courtyard being backfilled with RCA.

Photo 12. View of vapor barrier being installed below cellar slab.

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Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Photo 13 – Additional view of vapor barrier being installed below cellar slab.

Photo 14. View of building construction.

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

APPENDIX E

Community Air Monitoring Results

Daily Air Monitoring Log

Project Name: 1035 Fulton St Bklyn NY

Date: 5.14.14

Project Location:

BCP No:

Temperature: 54/61

Wind Speed: NE 9/

Wind Direction: el/cldy

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 0.033 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 0.036 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
7:00	0.0	0.035	0.0	0.033	0.0	0.036
8:00	0.0	0.037	0.0	0.035	0.0	0.039
		No more soil disturbance				

Activities Performed: plan - truck 0-6' to CE Philadelphia

- excavate top 6' of site sp for disposal

5/15/14 1035 Fulton St, Brooklyn
Onsite 640am
Trucking to Clean Earth of Philadelphia
Global # 133403
Approval (non CE trucks) - 143100095
Approval (CE trucks) - 143100094

Overcast | Rain - 62° wind → S 3mph a.m.

0715 - load out truck #1
Salazar trucking 10 - AN-381D
0730 - load out truck # 2
Jhonatar trucking 01
AP-861W
0743 - load out truck # 3
Jhonatar 02 AP660W
0750 - load out truck 4
Sinai trucking 77
AR 669B
0800 - load out truck 5
Munoz trucking 444
AP 533Y

Excavate + stockpile soil 0-4ft from
Eastern portion of property for TSD

Air Monitoring

Time	PID up	PID down	Dust up	Dust down
0700	Ø	Ø	0.110	0.113
0730	Ø	Ø	0.081	0.090
0800	Ø	Ø	0.094	0.138
0830	Ø	Ø	0.075	0.078
0900 - 0930	NO SOIL DISTURBANCE			
1000	Ø	Ø	0.018	0.020
1000 - 1200	NO MONITORING - Rain NO Soil disturbance - Waiting on trucks			
1200-1300	Lunch break			
1300	Ø	Ø	0.018	0.023
1330	Ø	Ø	0.010	0.015
1400	Ø	Ø	0.012	0.021

1245 - load out truck 6
Jeivar trucking
AP-573W

left Site 3:30 - no trucks after 1245

Daily Air Monitoring Log

Project Name: 1035 Fulton St Bklyn NY

Project Location:

Date: 5.16.14

Temperature: 58/64

BCP No:

Wind Speed: Cldy/ rain

Wind Direction: SE 13/

Background Data: Upwind - PID 0.0 ppm

Dust Meter 1 - 0.026 mg/m^3

Downwind - PID 0.0 ppm

Dust Meter 2 - 0.030 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.027	0.0	0.026	0.0	0.030
800	0.0	0.030	0.0	0.027	0.0	0.029
900	0.0	0.031	0.0	0.026	0.0	0.028
1000	0.0	0.033	0.0	0.027	0.0	0.031
1100	0.0	0.037	0.0	0.026	0.0	0.032
1200	lunch					
1300	0.0	0.039	0.0	0.029	0.0	0.036
	no	more	trucks	Soil disturbance over		

Activities Performed: load 0-6' to CE Philly.

Daily Air Monitoring Log

Project Name: 1035 Fulton St Bklyn NY Date: 5.14.14

Project Location: BCP No:

Temperature: 54/61 Wind Speed: NE 9/ Wind Direction: cl/cldy

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 0.033 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 0.036 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.035	0.0	0.033	0.0	0.036
800	0.0	0.037	0.0	0.035	0.0	0.039
		No more	soil disturbance			

Activities Performed: plan - truck 0-6' to CE Philadelphia
- excavate top 6' of site sp for disposal

Daily Air Monitoring Log

Project Name: 1035 Fulton St Bklyn NY

Date: 5-16-14

Project Location:

BCP No:

Temperature: 58/64

Wind Speed: Cldy/ rain

Wind Direction: SE 13/

Background Data: Upwind - PID 0.0 ppm

Dust Meter 1 - 0.026 mg/m^3

Downwind - PID 0.0 ppm

Dust Meter 2 - 0.030 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.027	0.0	0.026	0.0	0.030
800	0.0	0.030	0.0	0.027	0.0	0.029
900	0.0	0.031	0.0	0.026	0.0	0.028
1000	0.0	0.033	0.0	0.027	0.0	0.031
1100	0.0	0.037	0.0	0.026	0.0	0.032
1200	lunch					
1300	0.0	0.039	0.0	0.029	0.0	0.036
	no	more	trucks	soil disturbance		
				over		

Activities Performed: load 0-6' to CE Philly

Daily Air Monitoring Log

Project Name: _____ Date: 5.20.14

Project Location: 1035 Fulton St BCP No: _____

Temperature: _____ Wind Speed: _____ Wind Direction: _____

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 0.036 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 0.040 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
1600	0.0	0.039	0.0	0.036	0.0	0.040
1100	0.0	0.045	0.0	0.039	0.0	0.042

Activities Performed: onsite @1000 - loading 5 trucks
shoring activities

Daily Air Monitoring Log

Project Name: _____ Date: 5.21.14

Project Location: 1035 Fulton St Bkly NY BCP No: _____

Temperature: _____ Wind Speed: _____ Wind Direction: _____

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 0.033 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 0.037 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.033	0.0	0.030	0.0	0.036
800	0.0	0.037	0.0	0.036	0.0	0.042
		no more trucks	- shoring		continuing	

Activities Performed:
- load 3 trucks to CEPhilly
- shoring activities

Daily Air Monitoring Log

Project Name: _____ Date: 5-22-2014

Project Location: 1035 Fulton st. Brooklyn BCP No: _____

Temperature: 60F Wind Speed: 4mph Wind Direction: S

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 0.023 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 0.034 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.043	0.0	0.042	0.0	0.043
730	0.0	0.042	0.0	0.041	0.0	0.042
800	0.0	0.044	0.0	0.41	0.0	0.044
		No Soil Disturbance				
1200 pm	0.0	0.035	0.0	0.036	0.0	0.036
		Rain				

Activities Performed:

Loaded Historic fill into dump trucks for transport to CEP

Daily Air Monitoring Log

Project Name: _____ Date: 5-23-2014

Project Location: 1055 Fulton street, Brooklyn BCP No: _____

Temperature: 59F Wind Speed: 3-5mph Wind Direction: N

Background Data: Upwind - PID 0-0 ppm Dust Meter 1 - 0.015 mg/m^3

Downwind - PID 0-0 ppm Dust Meter 2 - 0.018 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.020	0.0	0.017	0.0	0.020
730	0.0	0.021	0.0	0.016	0.0	0.021
800	0.0	0.021	0.0	0.018	0.0	0.022
830	0.0	0.022	0.0	0.018	0.0	0.023
900	0.0	0.023	0.0	0.019	0.0	0.024

Activities Performed:

Daily Air Monitoring Log

Project Name: 1035 Fulton St Bklyn NY

Date: ~~10~~ 5-27-14

Project Location:

VCP No:

Temperature: 70 -

Wind Speed: W9

Wind Direction: SW

Background Data: Upwind - PID 0.0 ppm

Dust Meter 1 - 0.039 mg/m^3

Downwind - PID 0.0 ppm

Dust Meter 2 - 0.042 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.038	0.0	0.039	0.0	0.042
800	0.0	0.040	0.0	0.040	0.0	0.044
900	0.0	0.043	0.0	0.042	0.0	0.046
1000	0.0	0.047	0.0	0.044	0.0	0.051

Activities Performed:
- load fill for transport to CE Philadelphia
- begin underpinning
- SP remaining fill for disposal

Daily Air Monitoring Log

Project Name: 1035 Fulton St Brklyn NY

Date: 5.28.14

Project Location:

VCP No:

Temperature: 61

Wind Speed: NE @ 8

Wind Direction: cloudy

Background Data: Upwind - PID 0.0 ppm

Dust Meter 1 - 0.036 mg/m^3

Downwind - PID 0.0 ppm

Dust Meter 2 - 0.040 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
700	0.0	0.038	0.0	0.036	0.0	0.040

Activities Performed: - load trucks w/ Hist Fill for transport to CE Philly

Daily Air Monitoring Log

Project Name: 1035 Fulton Street Date: 6-16-14

Project Location: Brooklyn, NY BCP No:

Temperature: 70-80°F Wind Speed: 3-8mph Wind Direction: SSE

Background Data: Upwind - PID 0 ppm Dust Meter 1 - 96 mg/m^3

Downwind - PID 0 ppm Dust Meter 2 - 90 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
0800			No Soil Disturbance			
0900			No Soil Disturbance			
1000			0.0	120	0.0	134
1100			0.0	116	0.0	122
1200			No Soil Disturbance			
1300						

Activities Performed:

Daily Air Monitoring Log

Project Name: 1035 Fulton St Date: 6-17-14

Project Location: Brooklyn, NY BCP No:

Temperature: 70-85°F Wind Speed: 5-9mph Wind Direction: SSW

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 148 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 154 mg/m^3

Time	Work Zone		Upwind		Downwind	
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3
Background			0.0	148	0.0	154
0800			0.0	250	0.0	254
0900			No Soil Disturbance			
1000			"		"	
1100			0.0	168	0.0	175
1200			0.0	170	0.0	172
1300			0.0	140	0.0	143
1400			No Soil Disturbance			
1500			"		"	

Activities Performed:

Daily Air Monitoring Log

Project Name: _____

Project Number: _____

Project Location: 1035 Fulton St Brooklyn NY

Date: 1·15·15

Temperature: 32 Wind Speed/Direction: W / 12 Weather: Sun

Temperature: 41 Wind Speed/Direction: NW / 15 Weather: Cldy

Background Data: Upwind - PID 0.0 ppm Dust Meter 1 - 0.042 mg/m^3

Downwind - PID 0.0 ppm Dust Meter 2 - 0.045 mg/m^3

Time	Upwind		Downwind		Comments
	PID - ppm	Dust - mg/m^3	PID - ppm	Dust - mg/m^3	
700	0.0	0.056	0.0	0.057	
1500	0.0	0.067	0.0	0.063	
					– no more work.

Activities Performed: truck to Plant

Additional Comments: _____

APPENDIX F

Daily Status Reports

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 15, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Kristen DiScenza**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) Excavation of soil from the 0-6 foot interval on the southern portion the Site.
2) A total of 6 loads of soil was removed for disposal at Clean Earth of Philadelphia.
3) Excavation and stockpiling of soil from the 0-6 foot interval for transport to Clean Earth of Philadelphia on 5/16.

Working In Grid #:

Samples Collected Today:

No samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Collect confirmation soil samples at 6ftbg for approval of remaining soils for disposal at Prospect Park.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	6	150								
Total	6	150								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

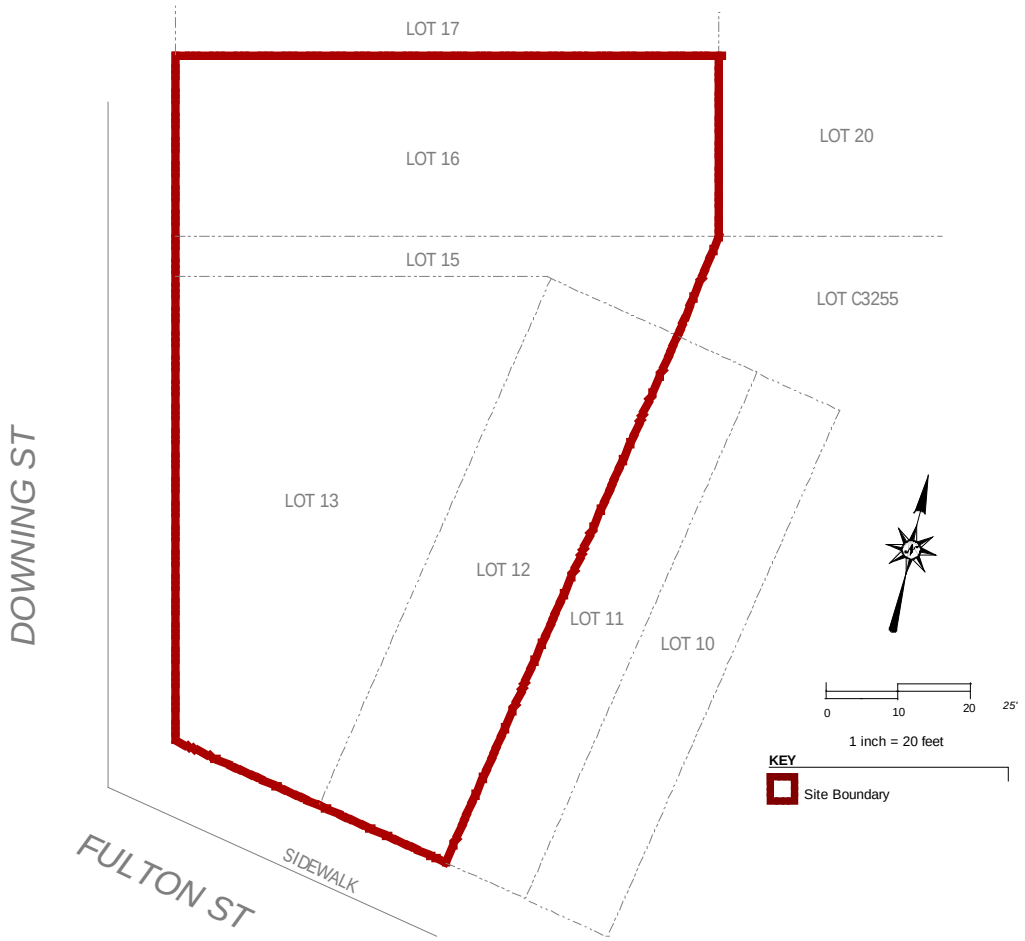


Photo Log

Photo 1 **-** **View of soil being loaded out for disposal at Clean Earth of Philadelphia from the 0-6ft interval.**	
Photo 2 – **View of southern portion of the Site**	

DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 16, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**
Work Activities Performed Today by General Contractor: **1) Excavation of soil from the 0-6 foot interval for the entire Site.** **2) A total of 26 loads of soil was removed for disposal at Clean Earth of Philadelphia.**	
Working In Grid #:	

Samples Collected Today:

No samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Collect confirmation soil samples at 6ftbg for approval of remaining soils for disposal at Prospect Park.

3) Begin shoring/lagging installation

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	26	650								
Total	32	800								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

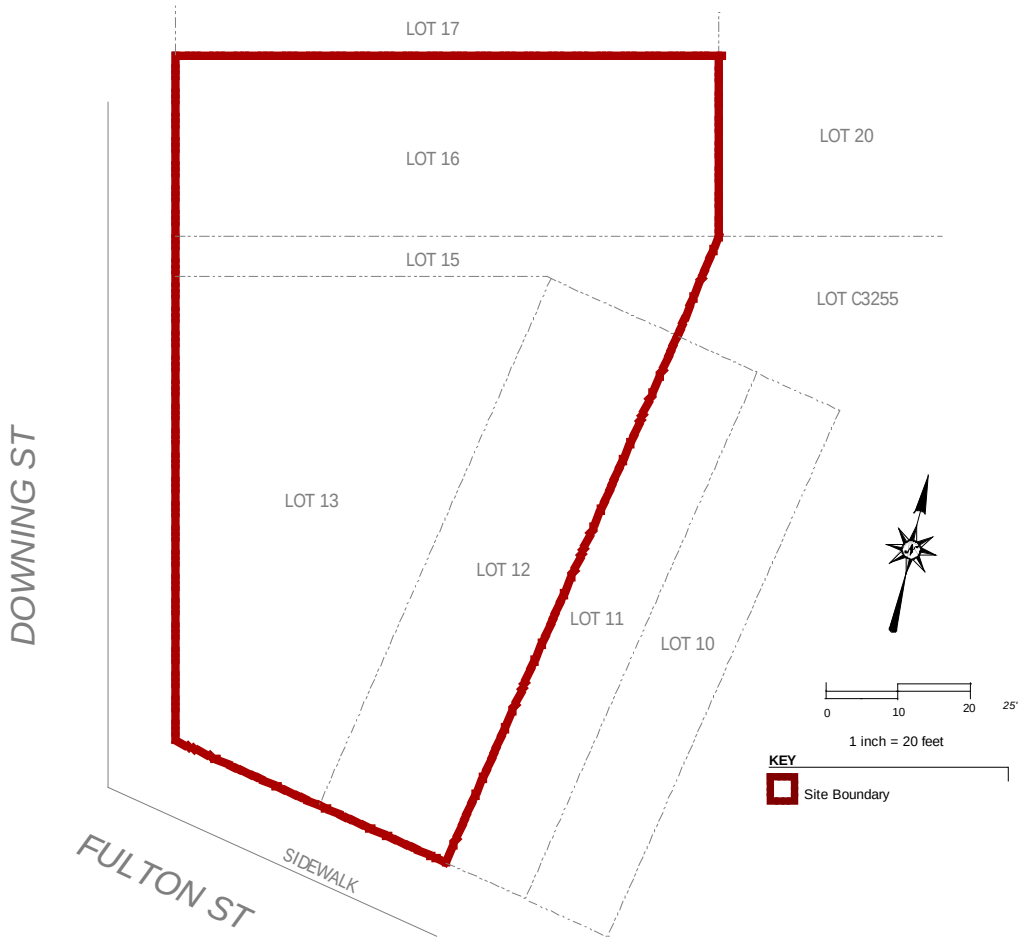


Photo Log

Photo 1 **-** **View of soil being loaded out for disposal at Clean Earth of Philadelphia from the 0-6ft interval.**	
Photo 2 – **View of Site looking North.**	

DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 20, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**
Work Activities Performed Today by General Contractor: **1) Excavation/stockpiling of soil from the 0-6 foot interval for the entire Site.** **2) A total of 3 loads of soil was removed for disposal at Clean Earth of Philadelphia.**	
Working In Grid #:	

Samples Collected Today:

5 soil samples collected at 6ftbg per disposal facility requirements.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Collect confirmation soil samples at 6ftbg for approval of remaining soils for disposal at Prospect Park.

3) Begin shoring/lagging installation

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	3	75								
Total	35	875								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

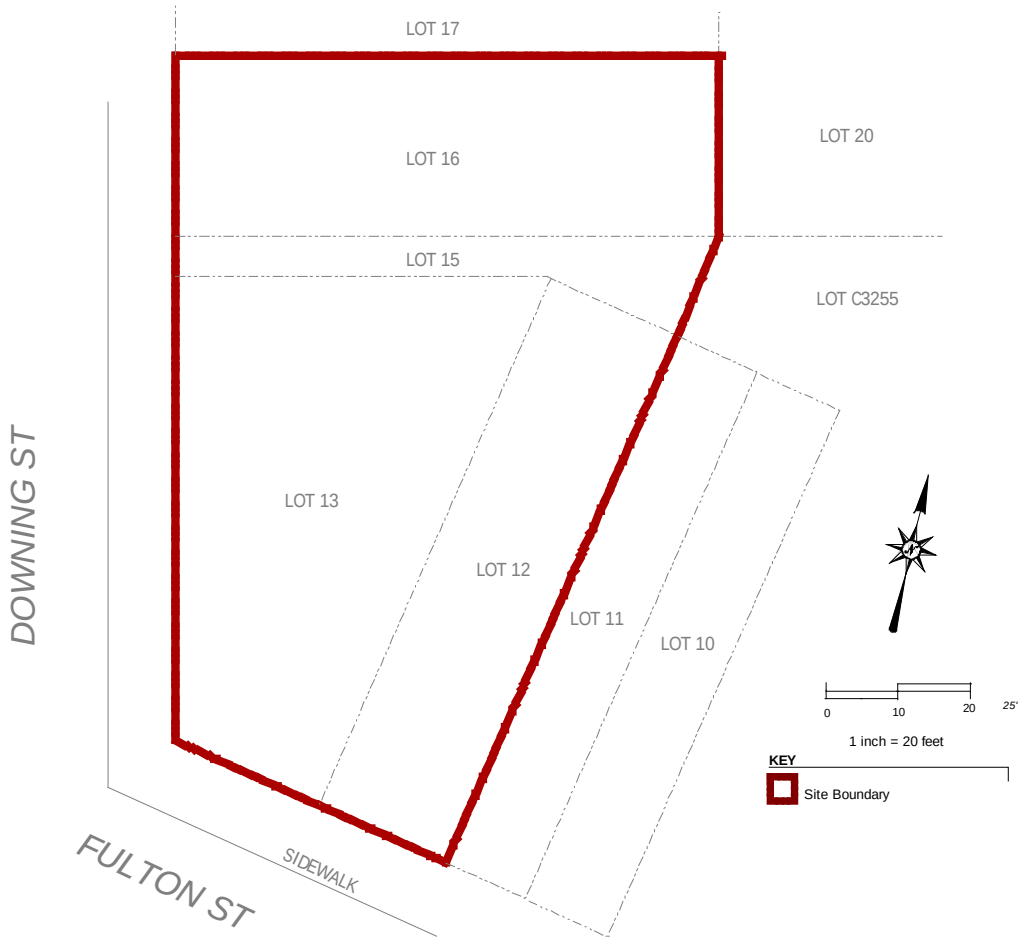


Photo Log

Photo 1 **-** **View of soil being loaded out for disposal at Clean Earth of Philadelphia from the 0-6ft interval.**	
Photo 2 – **View of Site looking South.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 21, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Kevin Waters**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) A total of 3 loads of soil was removed for disposal at Clean Earth of Philadelphia.
2) Continued working on shoring along Downing Street.

Working In Grid #:

Samples Collected Today:

3 soil samples collected at 6ftbg per disposal facility requirements. 1 soil sample collected from 6-12ftbg per disposal facility requirements.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	3	75								
Total	38	950								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

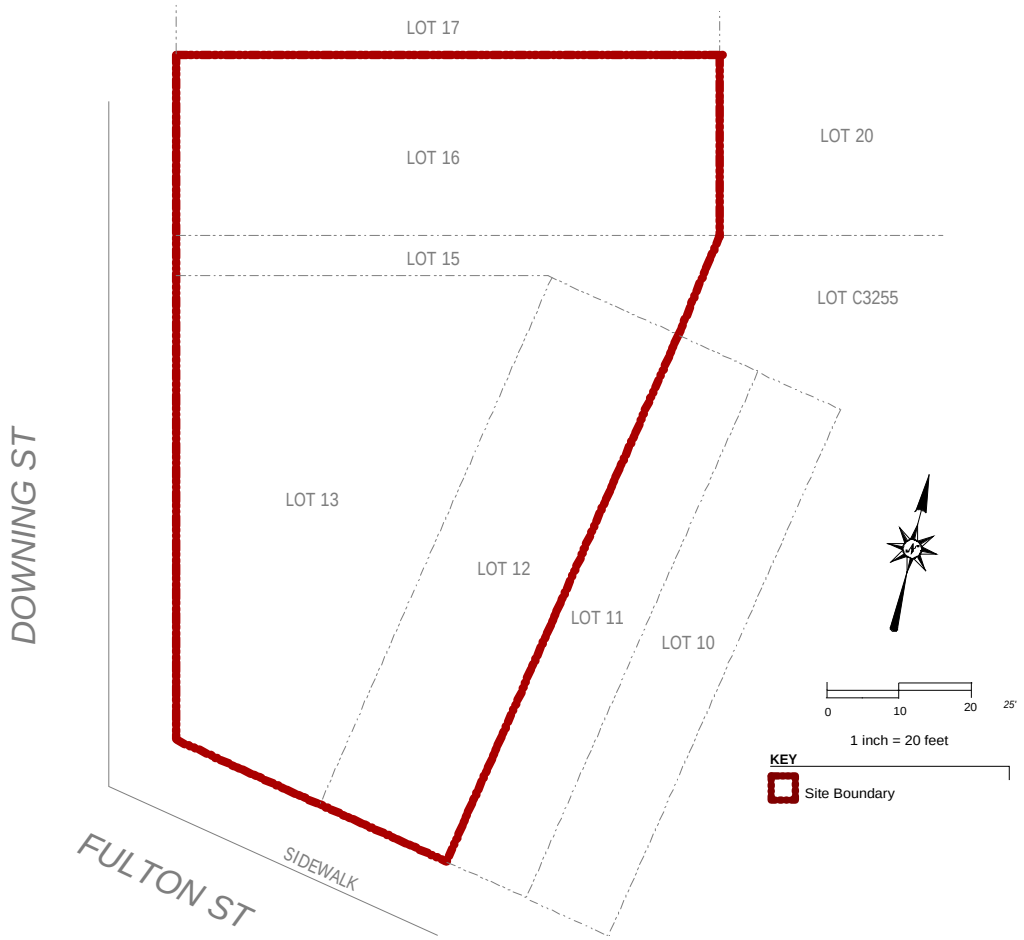


Photo Log

Photo 1 **-** **View of southeast portion of the Site.**	
Photo 2 – **View of lagging installation along Downing Street.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 22, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**
Work Activities Performed Today by General Contractor: **1) A total of 3 loads of soil was removed for disposal at Clean Earth of Philadelphia.** **2) Continued working on shoring along Downing Street.**	
Working In Grid #:	

Samples Collected Today:

No samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	3	75								
Total	41	1,025								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

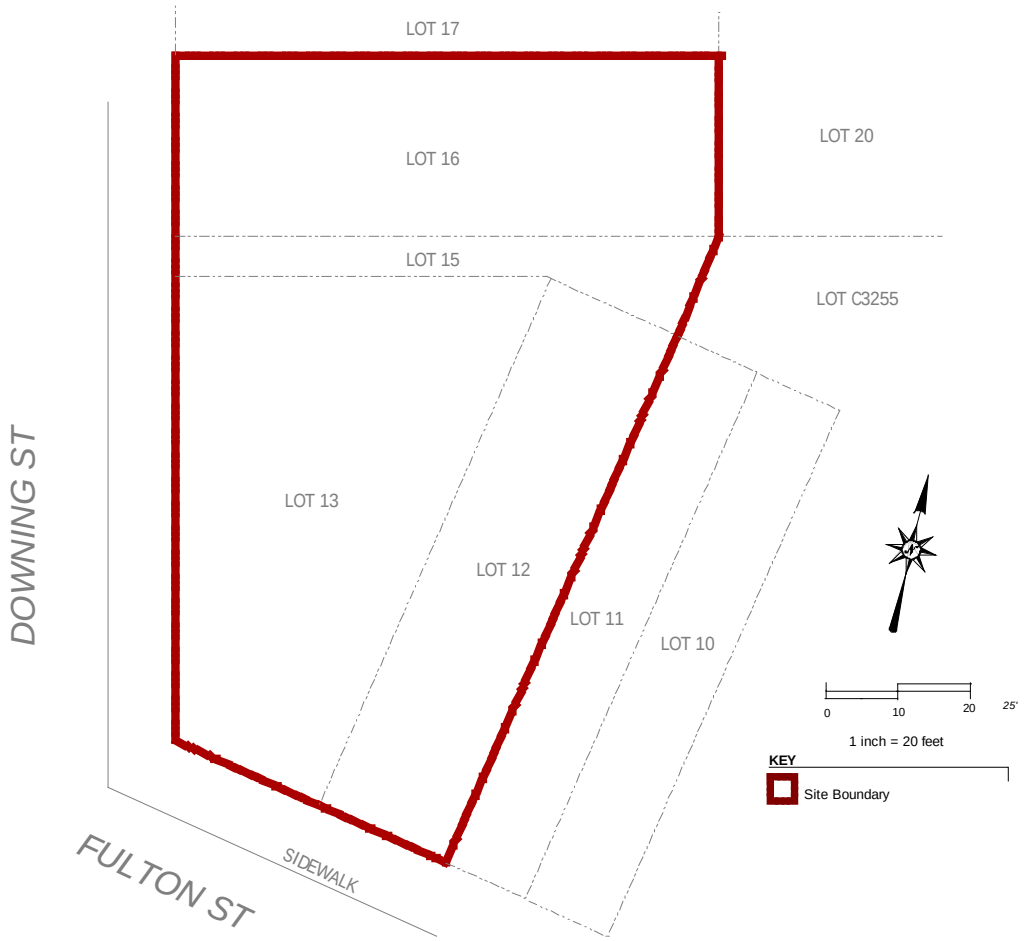


Photo Log

Photo 1 **-** **View of soil being loaded out to Clean Earth of Philadelphia.**	
Photo 2 – **View of soil being loaded out to Clean Earth of Philadelphia.**	

Photo 3 – **View of soil being loaded out to Clean Earth of Philadelphia.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 23, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Sunny Chen**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) A total of 9 loads of soil was removed for disposal at Clean Earth of Philadelphia.
2) Continued working on shoring along Downing Street.

Working In Grid #:

Samples Collected Today:

No soil samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	9	225								
Total	47	1,175								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

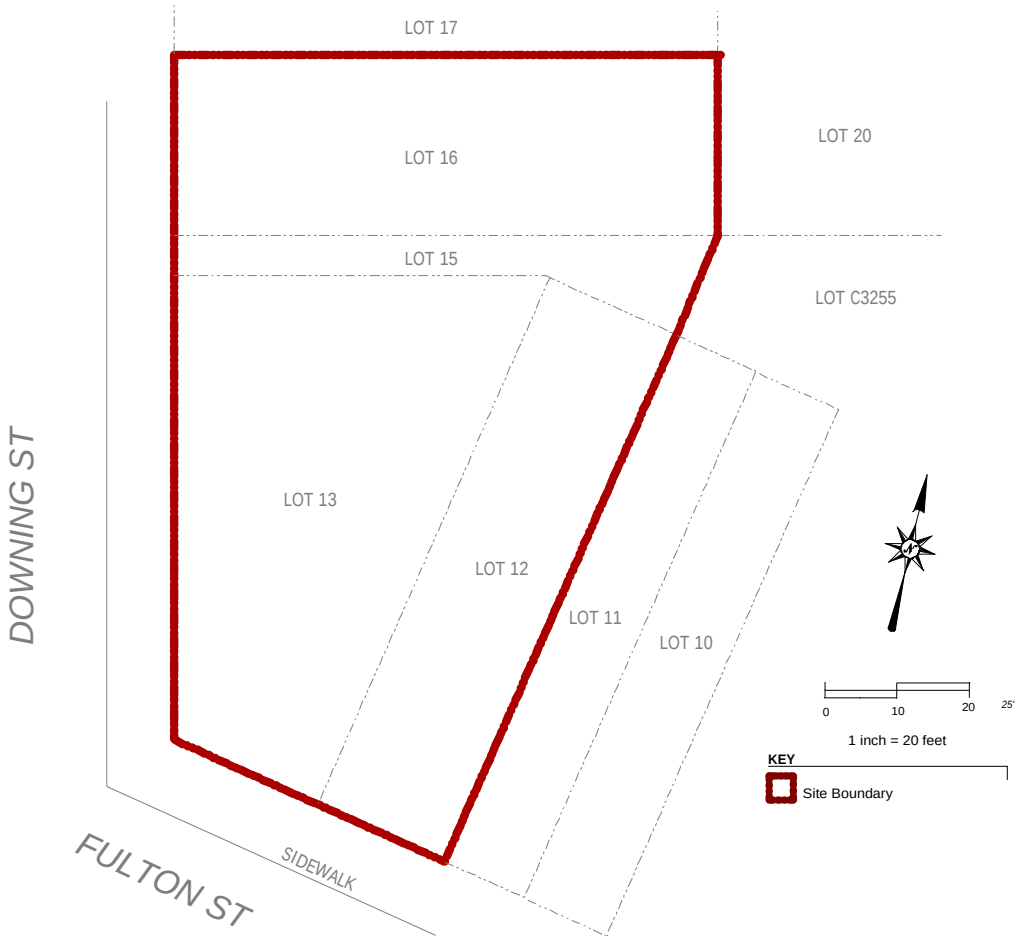


Photo Log

Photo 1 **-** **View of soil being loaded out to Clean Earth of Philadelphia.**	
Photo 2 – **View of excavation of soil 0-6ftbg.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 27, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) A total of 7 loads of soil was removed for disposal at Clean Earth of Philadelphia.
2) Continued working on shoring along Downing Street.
3) Begin underpinning.

Working In Grid #:

Samples Collected Today:

No soil samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation and underpinning

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	7	175								
Total	54	1,350								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

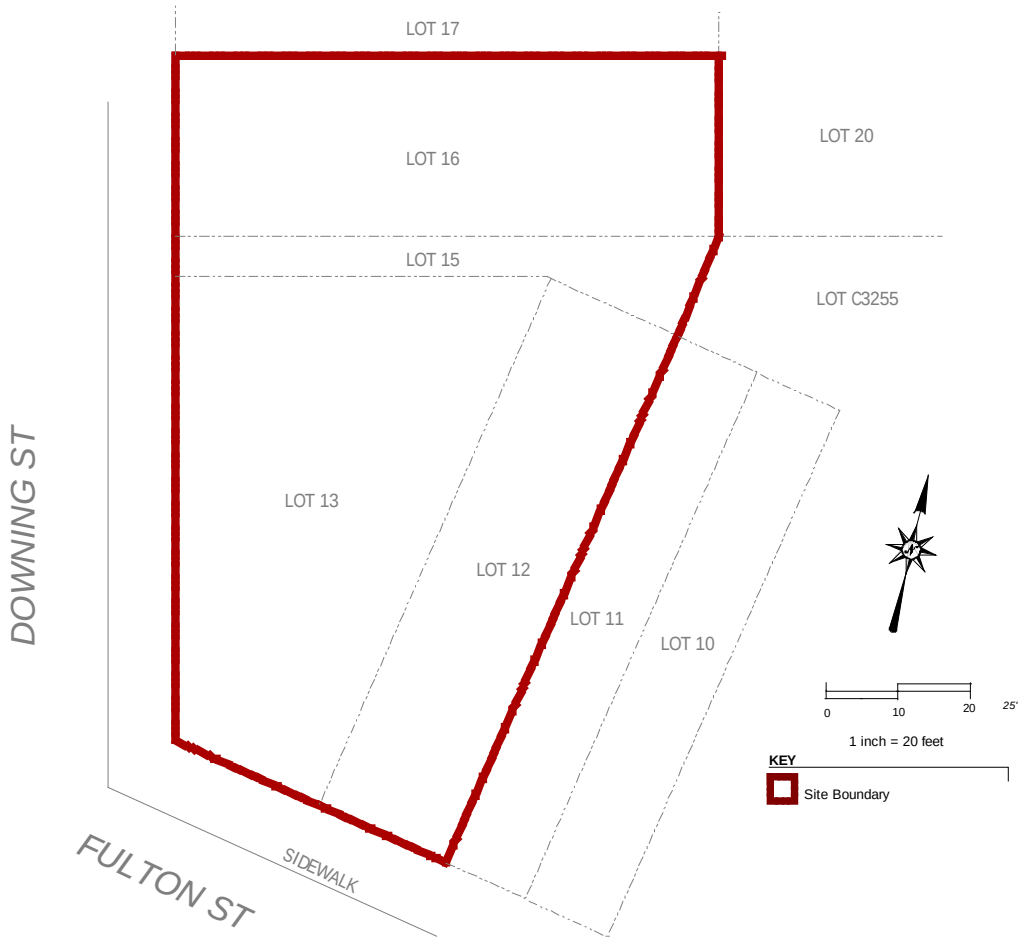


Photo Log

Photo 1 **-** **View of Site looking North.**	
Photo 2 – **View of excavation along eastern property boundary.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 28, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) A total of 5 loads of soil was removed for disposal at Clean Earth of Philadelphia.
2) Continued working on shoring along Downing Street.
3) Begin underpinning.

Working In Grid #:

Samples Collected Today:

No soil samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation and underpinning

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	5	125								
Total	59	1,475								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

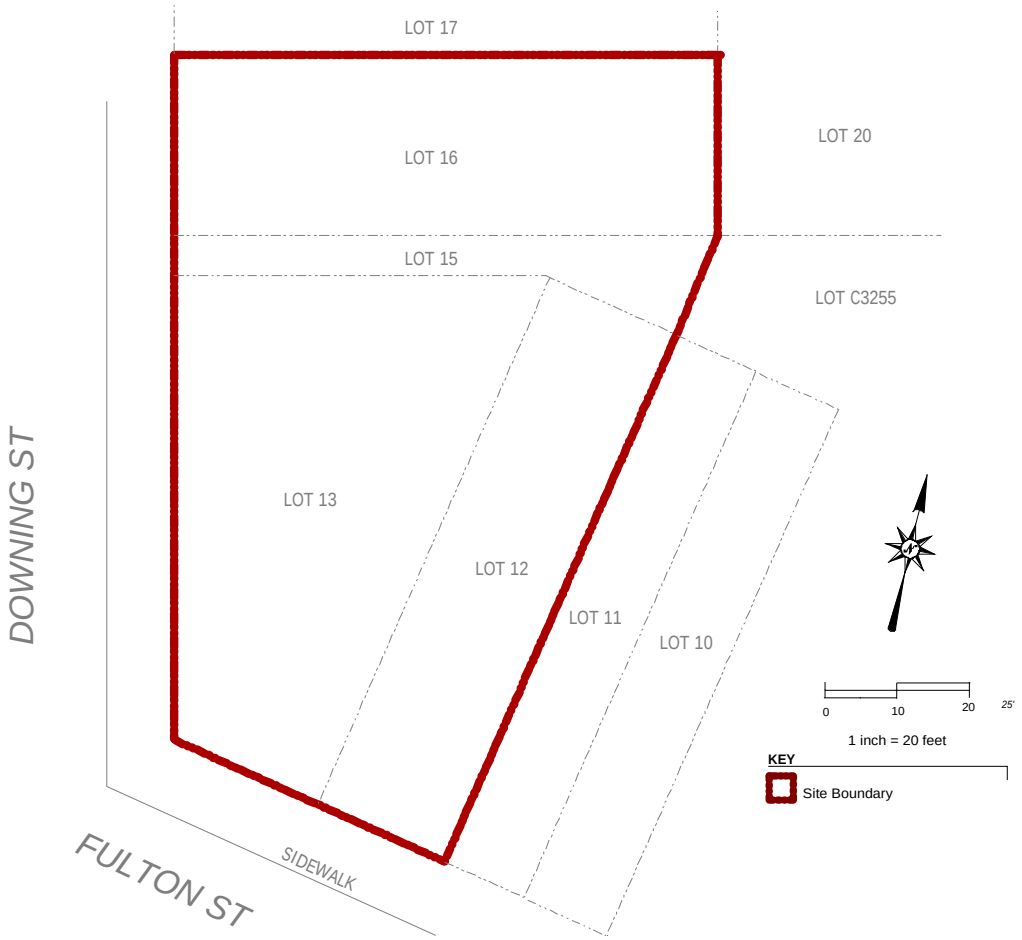


Photo Log

Photo 1 **-** **View of soil being loaded out to Clean Earth of Philadelphia.**	
Photo 2 – **View of Site looking North.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 29, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Sunny Chen**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) 1 load of soil was removed for disposal at Clean Earth of Philadelphia.
2) Continued working on shoring along Downing Street.
3) Continued underpinning.

Working In Grid #:

Samples Collected Today:

No soil samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation and underpinning

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	1	25								
Total	60	1,500								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

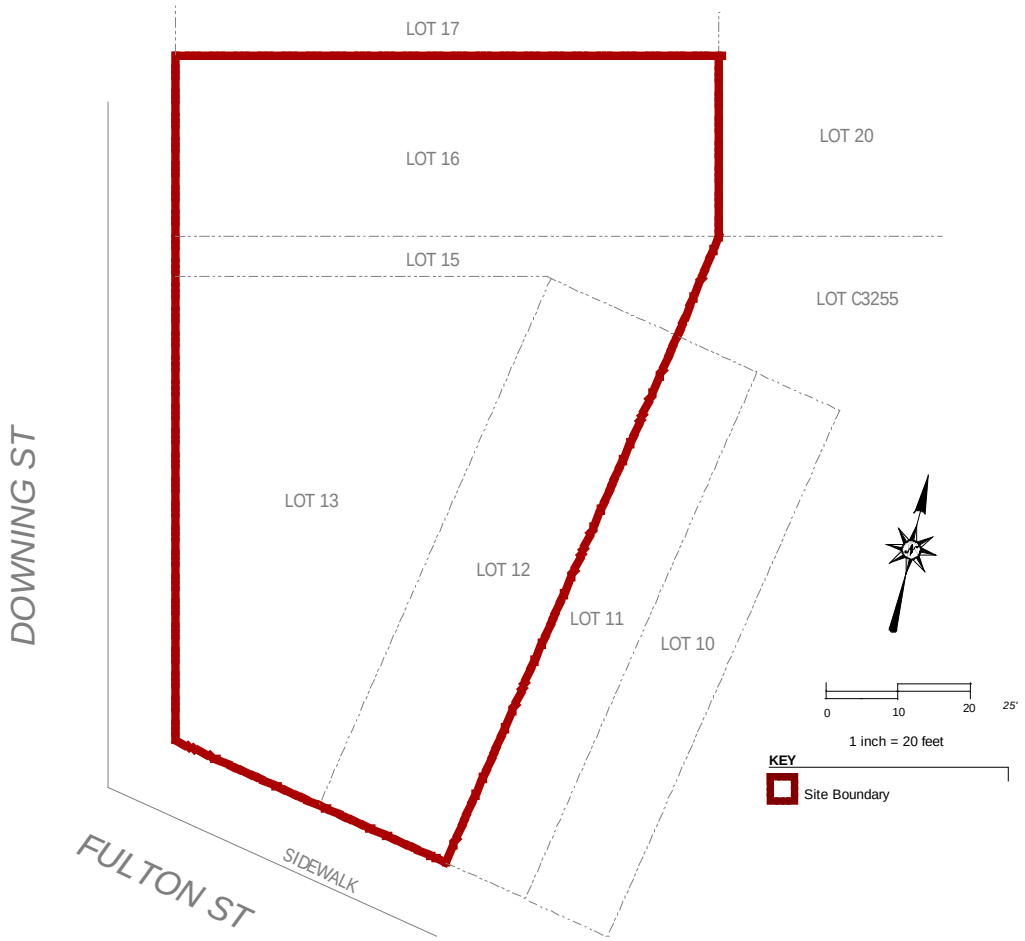


Photo Log

Photo 1 **-** **View of soil being loaded out to Clean Earth of Philadelphia.**	
Photo 2 – **View of excavation for underpinning along eastern property line.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	May 30, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Sunny Chen**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) 1 load of soil was removed for disposal at Clean Earth of Philadelphia.
2) Continued working on shoring along Downing Street.
3) Continued underpinning.

Working In Grid #:

Samples Collected Today:

No soil samples were collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of 0-6 foot interval with disposal at Clean Earth of Philadelphia.

2) Continue shoring/lagging installation and underpinning

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil									
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	1	25								
Total	61	1,525								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

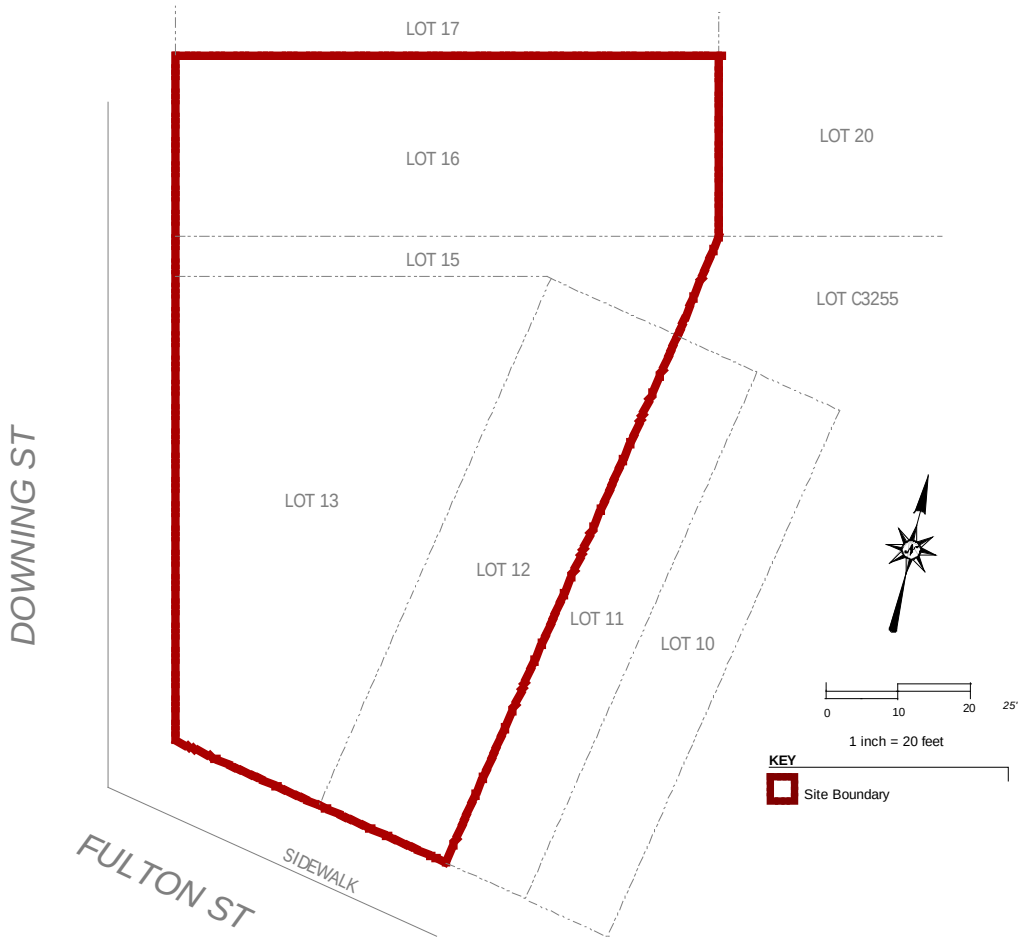


Photo Log

Photo 1 **-** **View of underpinning along eastern property line.**	
Photo 2 –	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	June 16, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Dominick Mosca**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) 1 load of soil was removed for disposal at Prospect Park.
2) Excavated and stockpiled soil from 6-10ftbg from the northern portion of the Site for transport to Prospect Park.
3) Began forms for footings.

Working In Grid #:

Samples Collected Today:

One endpoint sample, EP-4, was collected for SVOC and TAL metal analysis.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of soil from the 6-10ft foot interval with disposal at Prospect Park.

2) Continue footing installation on northern portion of the Site.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	1	25	1	25						
Total	61	1,525	1	25						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

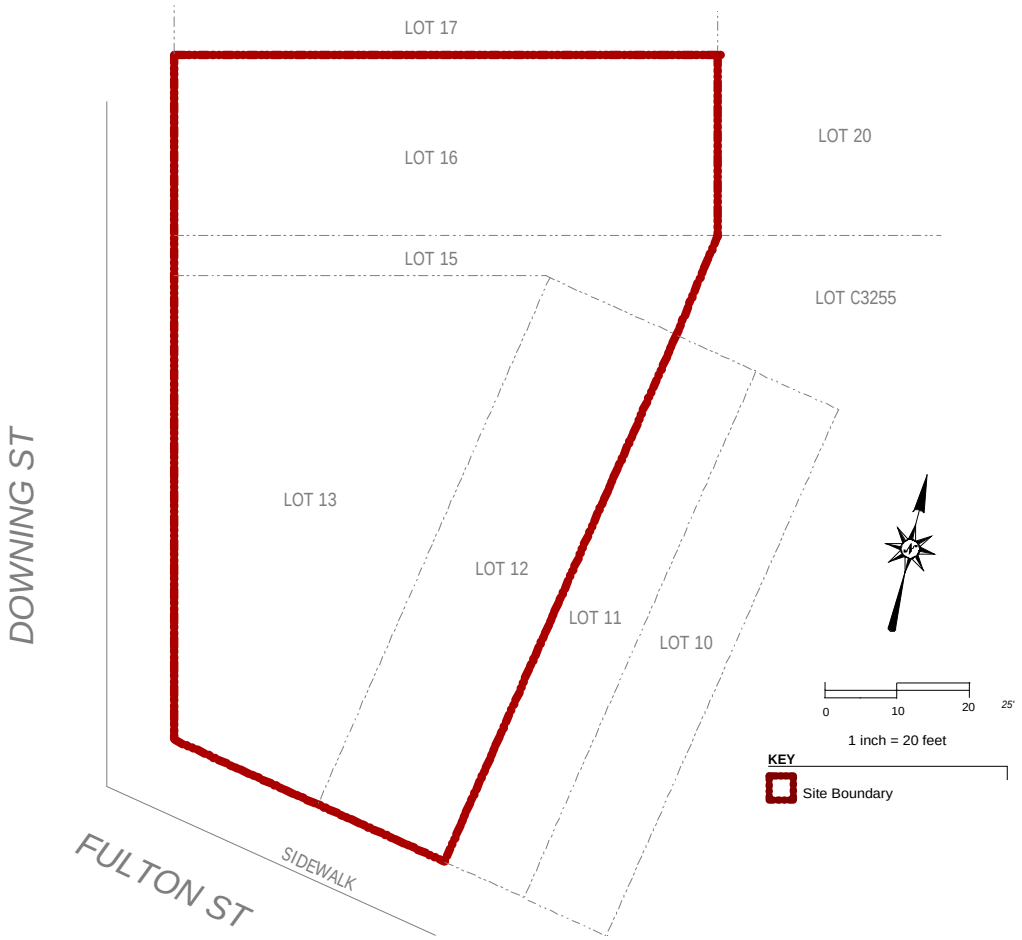
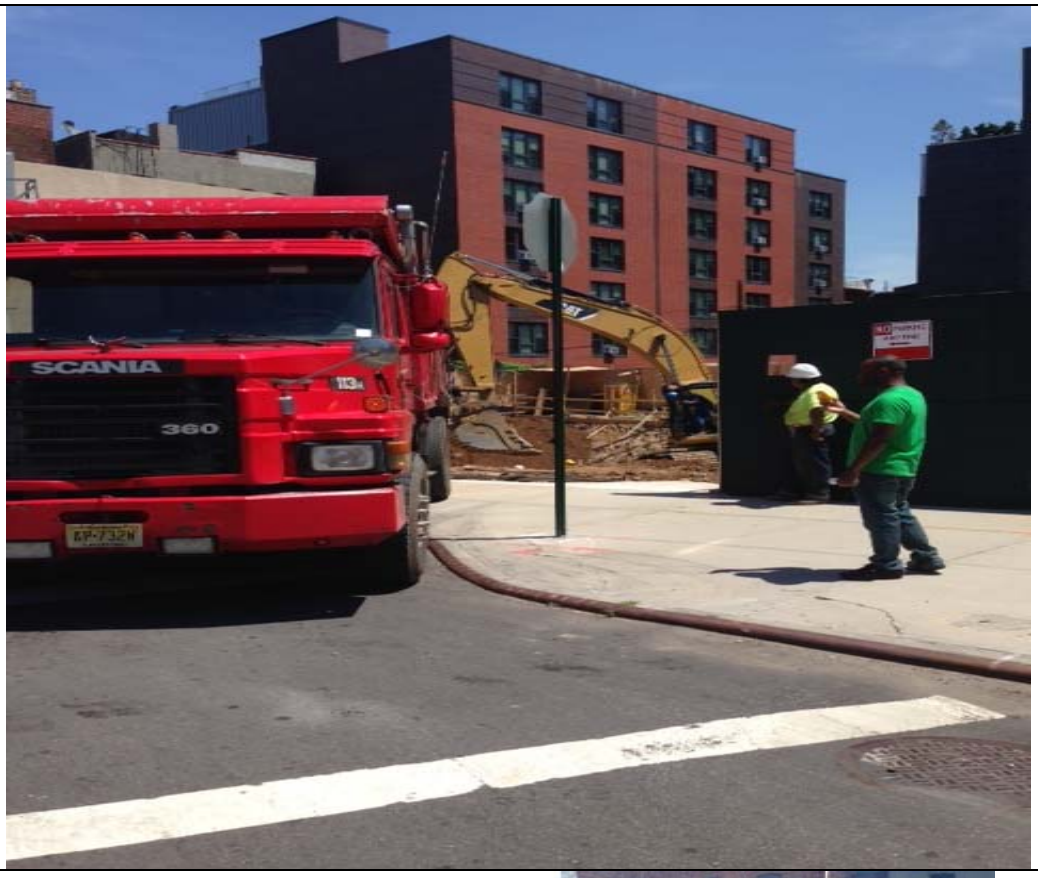


Photo Log

Photo 1 **-** **View of soil being loaded out to Prospect Park.**	
Photo 2 – **View of Site looking North, forms in foreground.**	

DAILY STATUS REPORT

Prepared By: **Kristen DiScenza**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	June 17, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Dominick Mosca**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) 8 loads of soil was removed for disposal at Prospect Park.
2) Excavated and stockpiled soil from 6-10ftbg from the northern portion of the Site for transport to Prospect Park.
3) Continued forms for footings.

Working In Grid #:

Samples Collected Today:

No samples collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of soil from the 6-10ft foot interval with disposal at Prospect Park.

2) Continue footing installation on northern portion of the Site.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	1	25	8	200						
Total	61	1,525	9	225						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

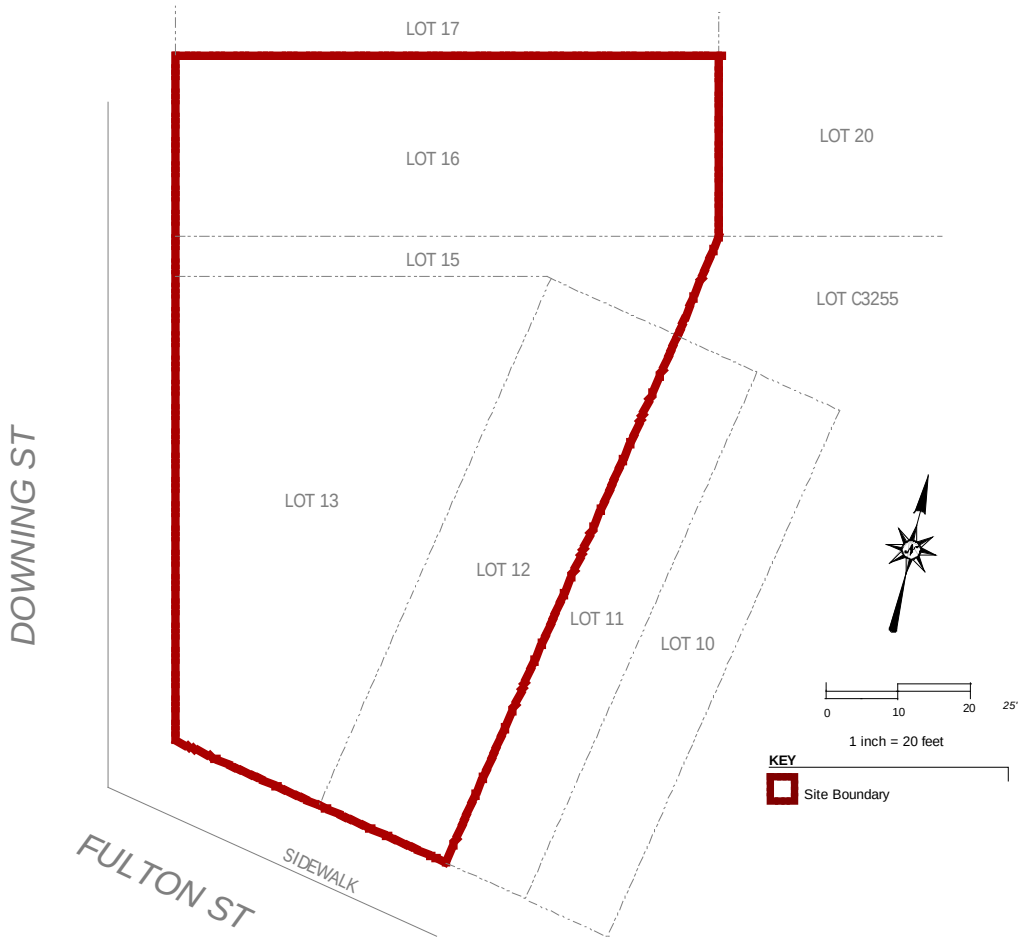


Photo Log

Photo 1 **-** **View of trucks awaiting loading for Prospect Park.**	
Photo 2 – **View of stockpiled soil for Prospect Park.**	

DAILY STATUS REPORT

Prepared By: **Dominick Mosca**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70		70-85	X	>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	June 18, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Dominick Mosca**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) 6 loads of soil was removed for disposal at Prospect Park.
2) Excavated and stockpiled soil from 6-10ftbg from the northern portion of the Site for transport to Prospect Park.
3) Continued working on forms for footings.

Working In Grid #:

Samples Collected Today:

No soil samples collected.

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of soil from the 6-10ft foot interval with disposal at Prospect Park.

2) Continue footing installation on northern portion of the Site.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	0		6	150						
Total	61	1,525	15	375						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

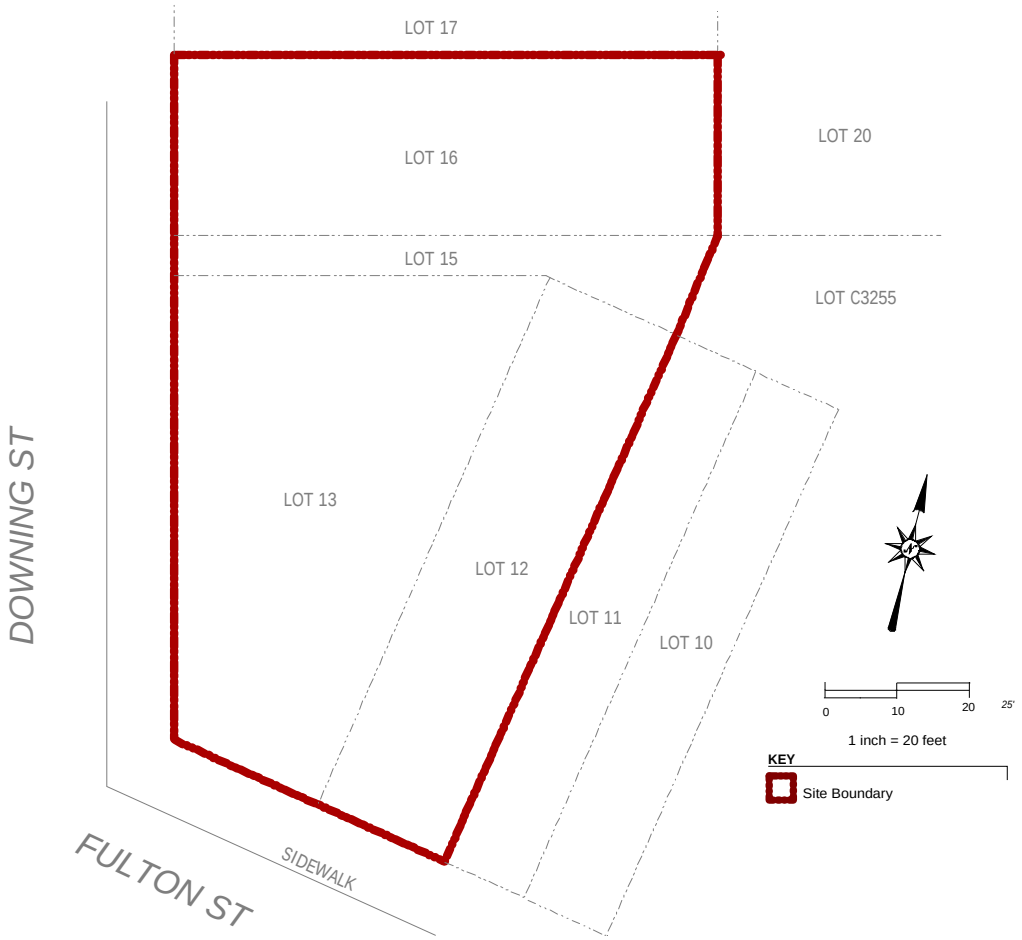
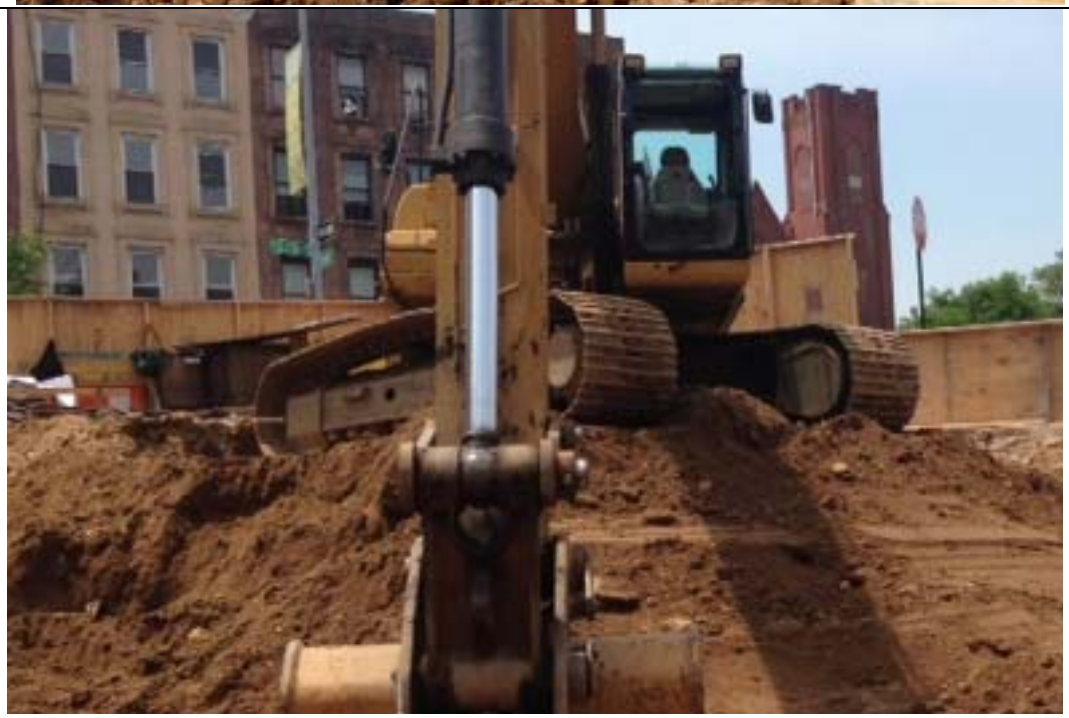


Photo Log

Photo 1 **-** **View of soil being loaded for transport to Prospect Park, NJ.**	
Photo 2 – **View of Site being excavated.**	

DAILY STATUS REPORT

Prepared By: **Dominick Mosca**

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85	X	>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	June 19, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Dominick Mosca**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) 8 loads of soil was removed for disposal at Prospect Park.
2) Excavated and stockpiled soil from 6-10ftbg from the northern portion of the Site for transport to Prospect Park.
3) Continued working on forms for footings.

Working In Grid #:

Samples Collected Today:

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue excavation of soil from the 6-10ft foot interval with disposal at Prospect Park.

2) Continue footing installation on northern portion of the Site.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today	0		8	200						
Total	61	1,525	23	575						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

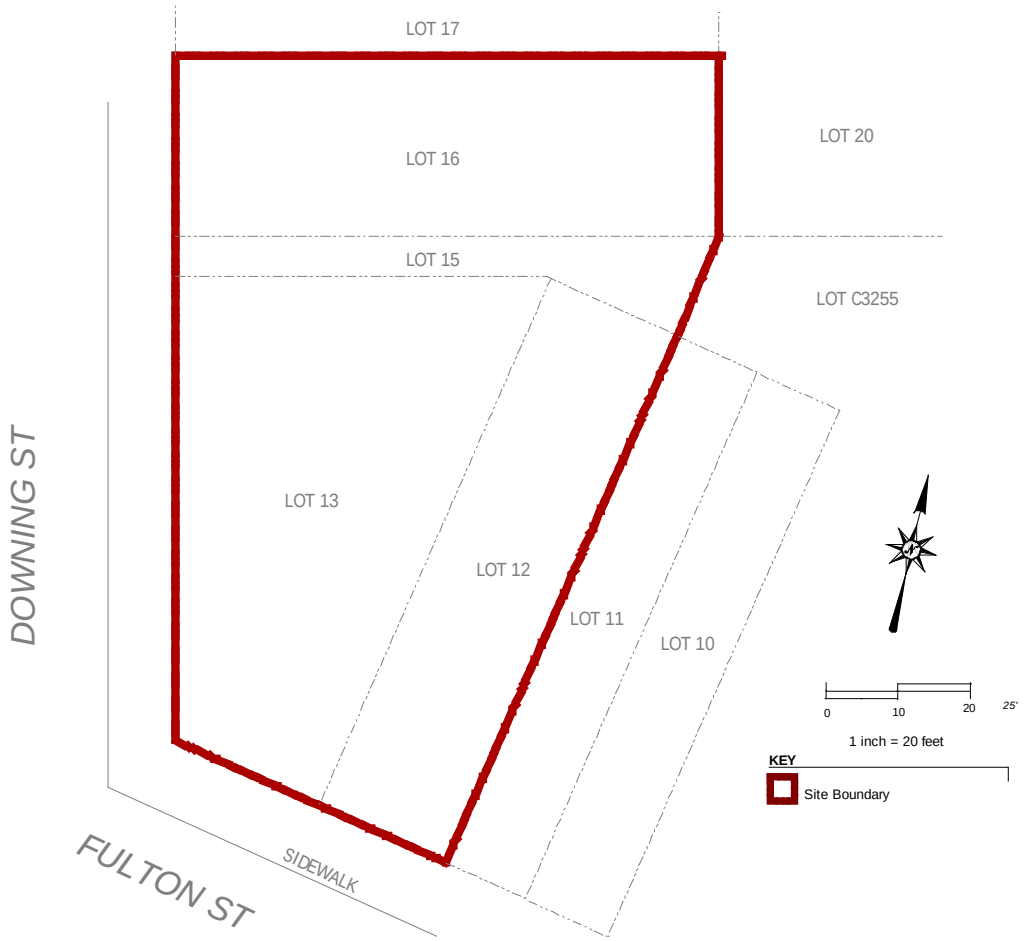


Photo Log

Photo 1 **-** **View of soil being loaded into dump truck for transport to Prospect Park, NJ.**	
Photo 2 – **View of Site being excavated.**	

DAILY STATUS REPORT

Prepared By: **Sunny Chen**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70		70-85	X	>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	July 25, 2014
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant:	Safety Officer:
Environmental Business Consultants	**Sunny Chen**
General Contractor:	Site Manager/ Supervisor:
Reliable NYC Construction Inc.	**Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) Collected endpoint sample EP-3.
2) Reliable NYC Construction continues to work on foundation walls and footing on Northern portion of Site.

Working In Grid #:

Samples Collected Today:
EP-3

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) Continue foundation wall and footing installation on Northern portion of Site.

2) No soil disturbance is anticipated next week.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today										
Total	61	1,525	23	575						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

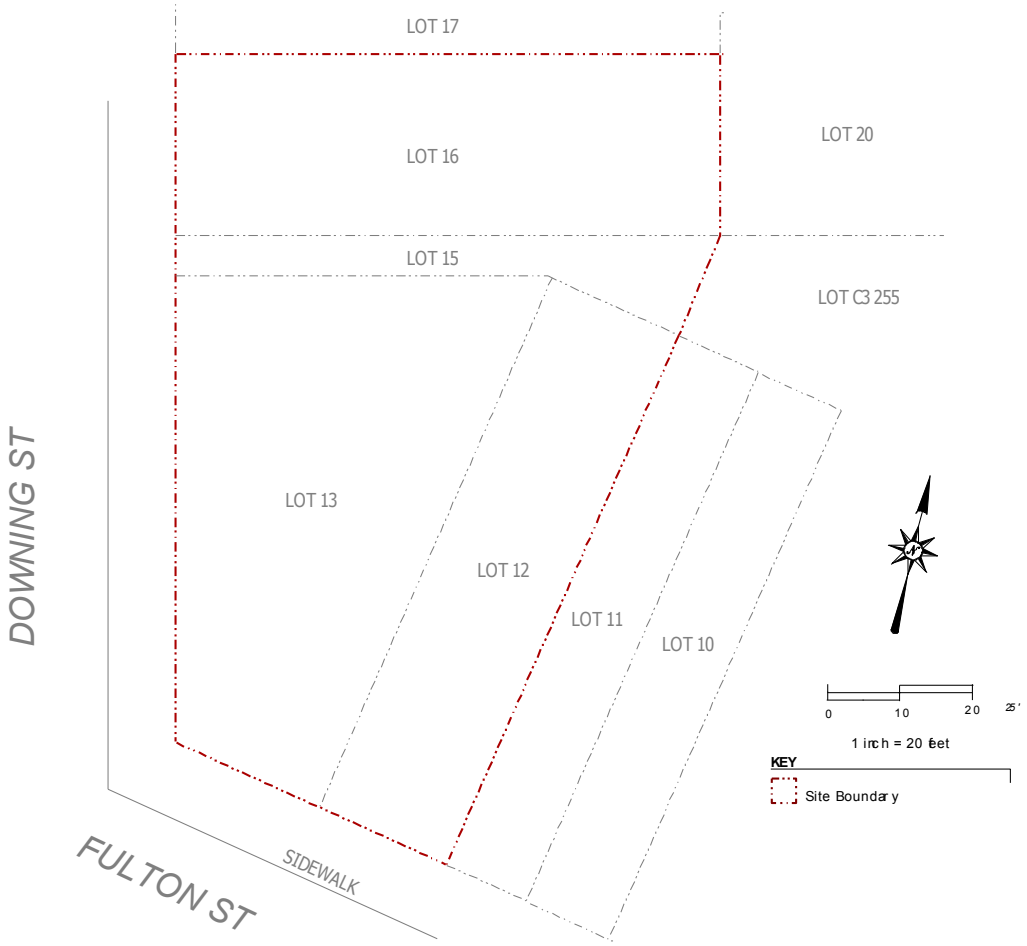


Photo Log

Photo 1 - **View of Site looking North.**	

DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	January 16, 2015
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**

Work Activities Performed Today by General Contractor:
1) Loaded out 2 trucks with soil from front yard to Prospect Park.
2) Building Construction

Working In Grid #:

Samples Collected Today:

Community Air Monitoring Results:

All air monitoring results within limits. No corrective actions required.

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

1) No soil disturbance is anticipated next week.

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today			2	48						
Total	61	1,525								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

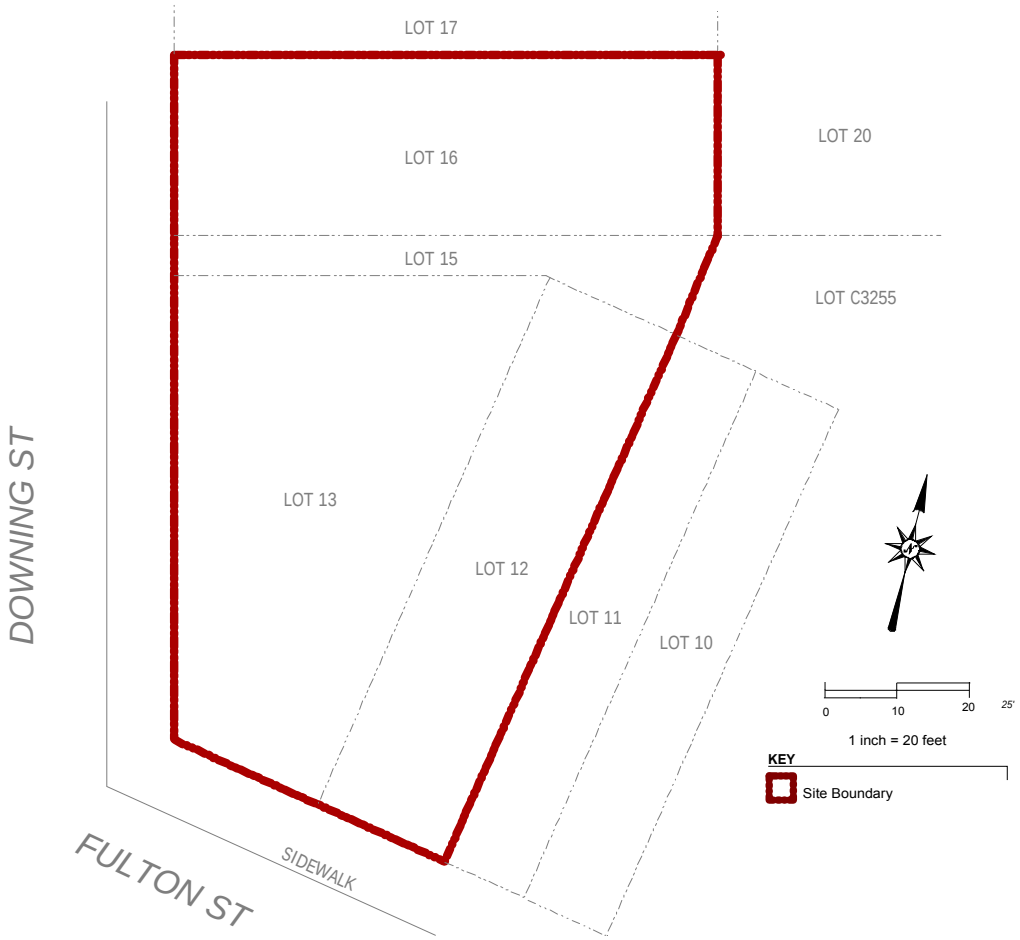


Photo Log

Photo 1 - View of Site with trucks staged.	
Photo 2 - stockpiled soil being loaded into trucks.	

DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	January 23, 2015
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Kevin Waters**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**
Work Activities Performed Today by General Contractor: **1) Vapor barrier inspection** **2) Building Construction**	
Working In Grid #:	

Samples Collected Today:
Community Air Monitoring Results: **All air monitoring results within limits. No corrective actions required.**
Problems Encountered: **No problems encountered.**
Planned Activities for the Next Day/ Week: **1) No soil disturbance is anticipated next week.**

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil		Prospect Park, NJ Non-Hazardous Soil							
Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today										
Total	61	1,525								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

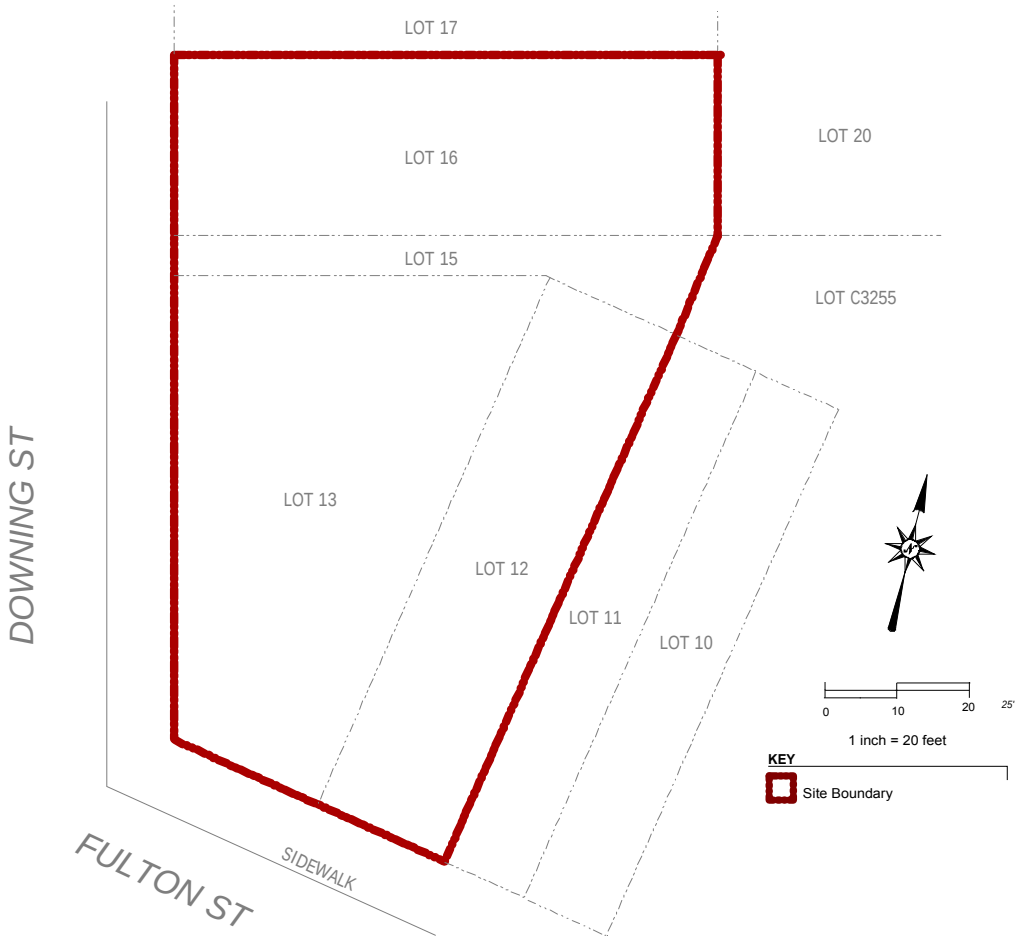


Photo Log

Photo 1 - View of vapor barrier installed on south east foundation wall	
Photo 2 - View of vapor barrier along south property line behind and under footing.	

DAILY STATUS REPORT

Prepared By: **Reuben Levinton**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	March 3rd, 2015
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Reuben Levinton**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**
Work Activities Performed Today by General Contractor: **1) Collected endpoint sample EP-6.** **2) Loaded out 3 trucks with soil from front yard to Prospect Park.**	
Working In Grid #:	

Samples Collected Today: **EP-6**
Community Air Monitoring Results: **All air monitoring results within limits. No corrective actions required.**
Problems Encountered: **No problems encountered.**
Planned Activities for the Next Day/ Week: **1) No soil disturbance is anticipated next week.**

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil	Prospect Park, NJ Non-Hazardous Soil			

Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today			3	75						
Total	61	1,525	27	675						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

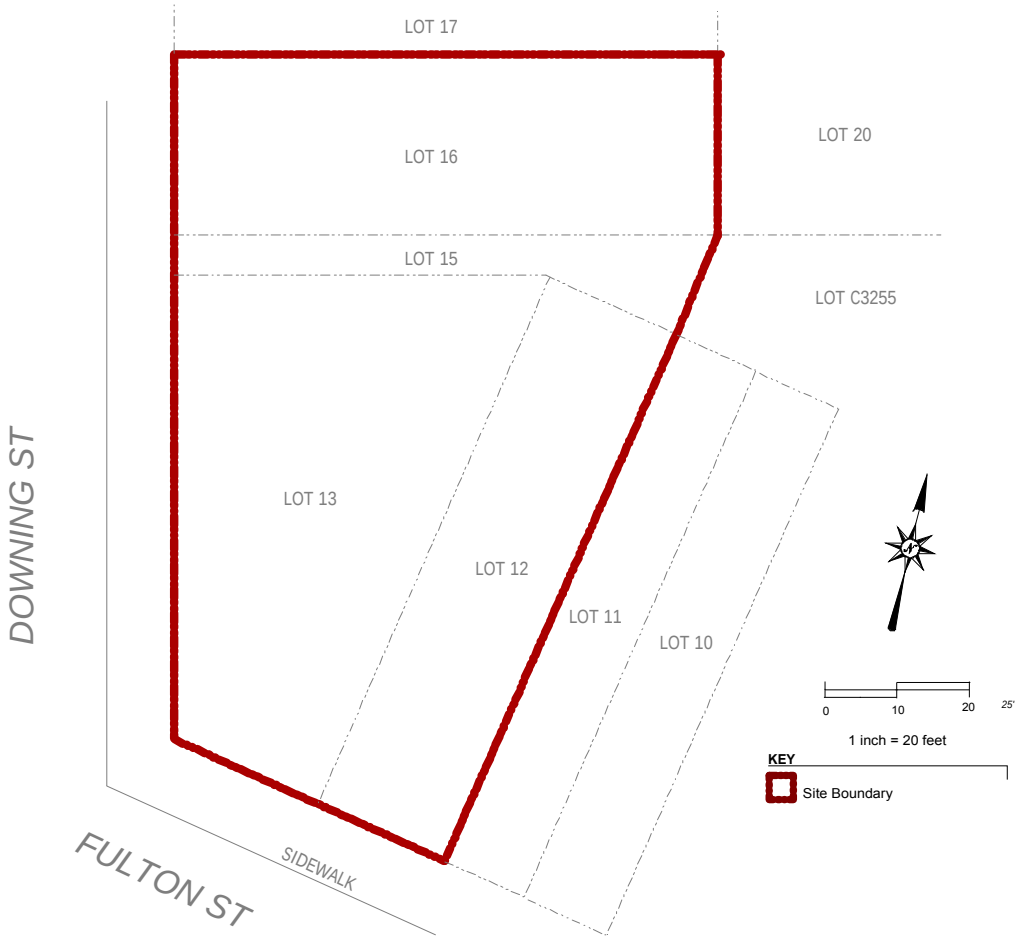


Photo Log

Photo 1 - View of Site looking North.	
Photo 2 - Truck being loaded with soil from site.	

DAILY STATUS REPORT

Prepared By: **Reuben Levinton**

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP157K	E-Number:	13EH-N380	Date:	March 6rd, 2015
Project Name:	**1035 Fulton Street, Brooklyn, NY**				

Consultant: **Environmental Business Consultants**	Safety Officer: **Reuben Levinton**
General Contractor: **Reliable NYC Construction Inc.**	Site Manager/ Supervisor: **Tyrone Haamid**
Work Activities Performed Today by General Contractor: **1) Vapor barrier inspection.**	
Working In Grid #:	

Samples Collected Today: **None.**
Community Air Monitoring Results: **All air monitoring results within limits. No corrective actions required.**
Problems Encountered: **No problems encountered.**
Planned Activities for the Next Day/ Week: **1) No soil disturbance is anticipated next week.**

Facility # Name/ Location Type of Waste Solid Or Liquid	Clean Earth of Philadelphia, PA Non-Hazardous Soil	Prospect Park, NJ Non-Hazardous Soil			

Trucks in yd^3 or Gal	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3	Trucks	yd^3
Today										
Total	61	1,525	27	675						

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd^3	Total	Trucks	yd^3

Site Grip Map

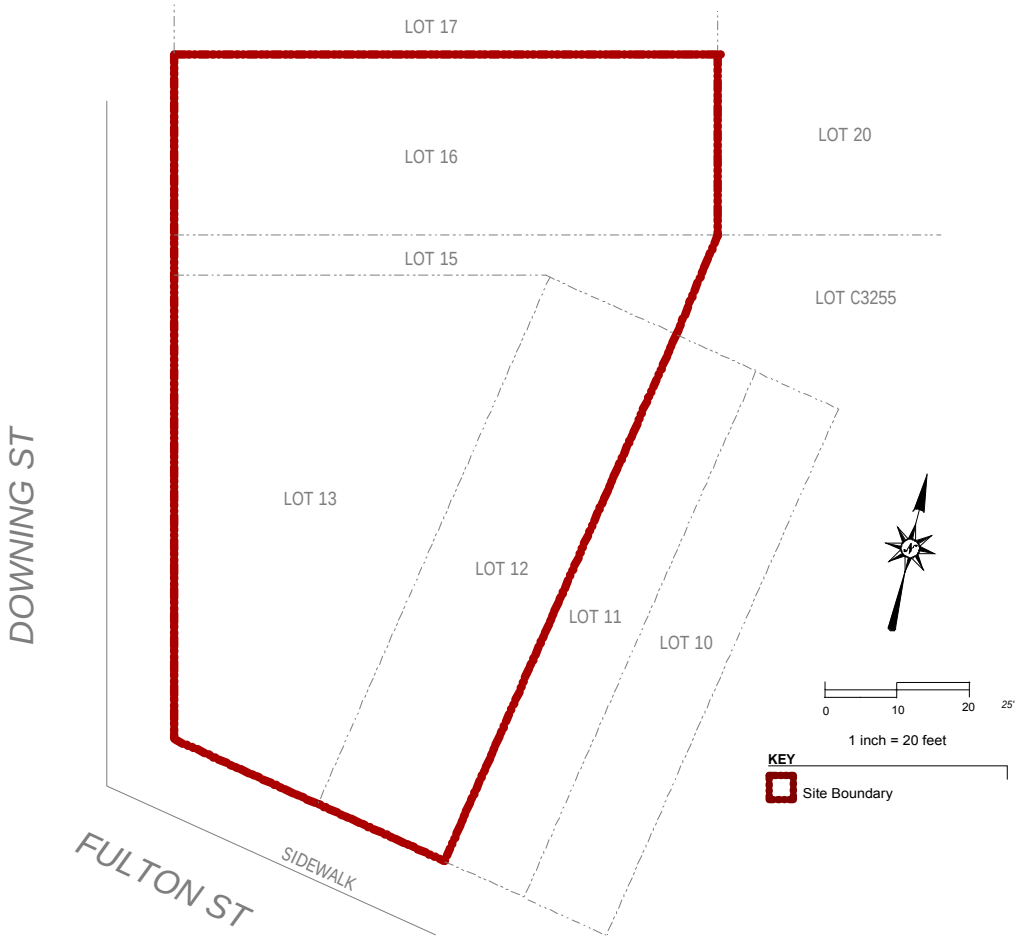


Photo Log

Photo 1 - View of vapor barrier covering corners of basement floor.	
Photo 2 - View of vapor barrier covering basement flooring.	

Photo 3 - View of seal between portions of barrier.	

APPENDIX G

Endpoint Laboratory Report

PHOENIX
Environmental Laboratories, Inc.

Tuesday, March 03, 2015

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON ST BROOKLYN
Sample ID#s: BH76826

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

March 03, 2015

SDG I.D.: GBH76826

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 03, 2015

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		02/23/15	12:00
Location Code:	EBC	Received by:	SW	02/25/15	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH76826
Phoenix ID: BH76826

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-1

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.40		0.40	0.40	mg/Kg	02/27/15	LK	SW6010C
Aluminum	5590		40	8.1	mg/Kg	02/27/15	LK	SW6010C
Arsenic	2.1		0.8	0.81	mg/Kg	02/27/15	LK	SW6010C
Barium	57.9		0.8	0.40	mg/Kg	02/27/15	LK	SW6010C
Beryllium	0.45	*	0.32	0.16	mg/Kg	02/27/15	LK	SW6010C
Calcium	5580		4.0	3.7	mg/Kg	02/27/15	LK	SW6010C
Cadmium	0.38	B	0.40	0.16	mg/Kg	02/27/15	LK	SW6010C
Cobalt	6.81		0.40	0.40	mg/Kg	02/27/15	LK	SW6010C
Chromium	15.7		0.40	0.40	mg/Kg	02/27/15	LK	SW6010C
Copper	123		0.40	0.40	mg/kg	02/27/15	LK	SW6010C
Iron	23000		40	40	mg/Kg	02/27/15	LK	SW6010C
Mercury	0.19	N	0.03	0.02	mg/Kg	02/26/15	RS	SW7471B
Potassium	1120	N	8	3.2	mg/Kg	02/27/15	LK	SW6010C
Magnesium	2920		4.0	4.0	mg/Kg	02/27/15	LK	SW6010C
Manganese	512		4.0	4.0	mg/Kg	02/27/15	LK	SW6010C
Sodium	137	N	8	3.5	mg/Kg	02/27/15	LK	SW6010C
Nickel	20.8		0.40	0.40	mg/Kg	02/27/15	LK	SW6010C
Lead	50.7		0.8	0.40	mg/Kg	02/27/15	LK	SW6010C
Antimony	< 2.0		2.0	2.0	mg/Kg	02/27/15	LK	SW6010C
Selenium	< 1.6		1.6	1.4	mg/Kg	02/27/15	LK	SW6010C
Thallium	< 1.6		1.6	1.6	mg/Kg	02/27/15	LK	SW6010C
Vanadium	28.6		0.4	0.40	mg/Kg	02/27/15	LK	SW6010C
Zinc	72.4		0.8	0.40	mg/Kg	02/27/15	LK	SW6010C
Percent Solid	87				%	02/25/15	I	SW846
Soil Extraction for SVOA	Completed					02/25/15	JJ/VH	SW3545A
Mercury Digestion	Completed					02/26/15	I/I	SW7471B
Total Metals Digest	Completed					02/25/15	CB/AG	SW3050B

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-1

Phoenix I.D.: BH76826

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND		270	130	ug/Kg	02/26/15	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
1,2-Diphenylhydrazine	ND		270	120	ug/Kg	02/26/15	DD	SW8270D	
1,3-Dichlorobenzene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
1,4-Dichlorobenzene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	02/26/15	DD	SW8270D	
2,4,6-Trichlorophenol	ND		270	120	ug/Kg	02/26/15	DD	SW8270D	
2,4-Dichlorophenol	ND		270	130	ug/Kg	02/26/15	DD	SW8270D	
2,4-Dimethylphenol	ND		270	94	ug/Kg	02/26/15	DD	SW8270D	
2,4-Dinitrophenol	ND		1900	270	ug/Kg	02/26/15	DD	SW8270D	
2,4-Dinitrotoluene	ND		270	150	ug/Kg	02/26/15	DD	SW8270D	
2,6-Dinitrotoluene	ND		270	120	ug/Kg	02/26/15	DD	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
2-Methylnaphthalene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	02/26/15	DD	SW8270D	
2-Nitroaniline	ND		1900	380	ug/Kg	02/26/15	DD	SW8270D	
2-Nitrophenol	ND		270	240	ug/Kg	02/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	02/26/15	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		760	180	ug/Kg	02/26/15	DD	SW8270D	
3-Nitroaniline	ND		1900	820	ug/Kg	02/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		1900	410	ug/Kg	02/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND		270	130	ug/Kg	02/26/15	DD	SW8270D	
4-Chloroaniline	ND		760	180	ug/Kg	02/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	02/26/15	DD	SW8270D	
4-Nitroaniline	ND		1900	130	ug/Kg	02/26/15	DD	SW8270D	
4-Nitrophenol	ND		1900	170	ug/Kg	02/26/15	DD	SW8270D	
Acenaphthene	ND		270	120	ug/Kg	02/26/15	DD	SW8270D	
Acenaphthylene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
Acetophenone	ND		270	120	ug/Kg	02/26/15	DD	SW8270D	
Aniline	ND		1900	760	ug/Kg	02/26/15	DD	SW8270D	
Anthracene	140	J	270	120	ug/Kg	02/26/15	DD	SW8270D	
Benz(a)anthracene	410		270	130	ug/Kg	02/26/15	DD	SW8270D	
Benzidine	ND		760	220	ug/Kg	02/26/15	DD	SW8270D	
Benzo(a)pyrene	340		270	120	ug/Kg	02/26/15	DD	SW8270D	
Benzo(b)fluoranthene	410		270	130	ug/Kg	02/26/15	DD	SW8270D	
Benzo(ghi)perylene	240	J	270	120	ug/Kg	02/26/15	DD	SW8270D	
Benzo(k)fluoranthene	160	J	270	130	ug/Kg	02/26/15	DD	SW8270D	
Benzoic acid	ND		1900	760	ug/Kg	02/26/15	DD	SW8270D	1
Benzyl butyl phthalate	ND		270	98	ug/Kg	02/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		270	100	ug/Kg	02/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		270	100	ug/Kg	02/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	02/26/15	DD	SW8270D	
Carbazole	ND		1900	290	ug/Kg	02/26/15	DD	SW8270D	
Chrysene	440		270	130	ug/Kg	02/26/15	DD	SW8270D	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-1

Phoenix I.D.: BH76826

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
Dibenzofuran	ND		270	110	ug/Kg	02/26/15	DD	SW8270D
Diethyl phthalate	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
Dimethylphthalate	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
Di-n-butylphthalate	ND		270	100	ug/Kg	02/26/15	DD	SW8270D
Di-n-octylphthalate	ND		270	98	ug/Kg	02/26/15	DD	SW8270D
Fluoranthene	800		270	120	ug/Kg	02/26/15	DD	SW8270D
Fluorene	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
Hexachlorobenzene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D
Hexachlorobutadiene	ND		270	140	ug/Kg	02/26/15	DD	SW8270D
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
Hexachloroethane	ND		270	110	ug/Kg	02/26/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	200	J	270	130	ug/Kg	02/26/15	DD	SW8270D
Isophorone	ND		270	110	ug/Kg	02/26/15	DD	SW8270D
Naphthalene	ND		270	110	ug/Kg	02/26/15	DD	SW8270D
Nitrobenzene	ND		270	130	ug/Kg	02/26/15	DD	SW8270D
N-Nitrosodimethylamine	ND		270	110	ug/Kg	02/26/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
N-Nitrosodiphenylamine	ND		270	150	ug/Kg	02/26/15	DD	SW8270D
Pentachloronitrobenzene	ND		270	140	ug/Kg	02/26/15	DD	SW8270D
Pentachlorophenol	ND		270	140	ug/Kg	02/26/15	DD	SW8270D
Phenanthrene	760		270	110	ug/Kg	02/26/15	DD	SW8270D
Phenol	ND		270	120	ug/Kg	02/26/15	DD	SW8270D
Pyrene	770		270	130	ug/Kg	02/26/15	DD	SW8270D
Pyridine	ND		270	93	ug/Kg	02/26/15	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	88				%	02/26/15	DD	19 - 122 %
% 2-Fluorobiphenyl	77				%	02/26/15	DD	30 - 115 %
% 2-Fluorophenol	63				%	02/26/15	DD	25 - 121 %
% Nitrobenzene-d5	73				%	02/26/15	DD	23 - 120 %
% Phenol-d5	70				%	02/26/15	DD	24 - 113 %
% Terphenyl-d14	79				%	02/26/15	DD	18 - 137 %

Project ID: 1035 FULTON ST BROOKLYN

Client ID: EP-1

Phoenix I.D.: BH76826

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Sample Criteria Exceedences Report

GBH76826 - EBC

Criteria: NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BH76826	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	123	0.40	50	50	mg/kg
BH76826	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.19	0.03	0.18	0.18	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

March 03, 2015

SDG I.D.: GBH76826

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

Temp 4 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: csusik@ebcheny.com

Customer: EBC
Address: 1808 Middle Country Rd Ridge NY

Project: 1035 Fulton street, Brooklyn
Report to: EBC
Invoice to:
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample Information - Identification

Sampler's Signature: [signature] Date: 2-23-15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	SVOC 8270	TAL Metals	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
708260	EP-1	S	2-23-15	1200	+	+		1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2-25-15	11:45
[signature]	[signature]	2-25-15	15:40

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[X] NY375 Unrestricted Use Soil
[X] NY375 Residential Soil
[X] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[ ] Phoenix Std Report
[X] Excel
[X] PDF
[ ] GIS/Key
[X] EQuIS
[ ] NJ Hazsite EDD
[X] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[X] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Thursday, December 11, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON ST BROOKLYN
Sample ID#s: BH49051 - BH49052

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

December 11, 2014

SDG I.D.: GBH49051

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 11, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KW	12/03/14	10:00
Location Code:	EBC	Received by:	SW	12/04/14	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH49051
Phoenix ID: BH49051

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.36		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Aluminum	6120	*	36	7.1	mg/Kg	12/09/14	LK	SW6010
Arsenic	1.8		0.7	0.71	mg/Kg	12/05/14	LK	SW6010
Barium	73.0		0.7	0.36	mg/Kg	12/05/14	LK	SW6010
Beryllium	0.37		0.29	0.14	mg/Kg	12/05/14	LK	SW6010
Calcium	6990	*	3.6	3.3	mg/Kg	12/05/14	LK	SW6010
Cadmium	0.32	B	0.36	0.14	mg/Kg	12/05/14	LK	SW6010
Cobalt	7.39		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Chromium	19.3		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Copper	29.5		0.36	0.36	mg/kg	12/05/14	LK	SW6010
Iron	17900	*	36	36	mg/Kg	12/09/14	LK	SW6010
Mercury	0.18		0.06	0.04	mg/Kg	12/05/14	MA	SW-7471
Potassium	1100	N	7	2.8	mg/Kg	12/05/14	LK	SW6010
Magnesium	3290		36	36	mg/Kg	12/09/14	LK	SW6010
Manganese	328	N	3.6	3.6	mg/Kg	12/09/14	LK	SW6010
Sodium	235	N*	7	3.1	mg/Kg	12/05/14	LK	SW6010
Nickel	28.0		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Lead	85.1		0.7	0.36	mg/Kg	12/05/14	LK	SW6010
Antimony	< 1.8		1.8	1.8	mg/Kg	12/09/14	LK	SW6010
Selenium	< 1.4		1.4	1.2	mg/Kg	12/05/14	LK	SW6010
Thallium	< 1.4		1.4	1.4	mg/Kg	12/05/14	LK	SW6010
Vanadium	25.0	N*	0.4	0.36	mg/Kg	12/05/14	LK	SW6010
Zinc	82.9		0.7	0.36	mg/Kg	12/05/14	LK	SW6010
Percent Solid	96				%	12/04/14	I	SW846
Soil Extraction for SVOA	Completed					12/04/14	JJ/VH	SW3545
Mercury Digestion	Completed					12/05/14	I/I	SW7471
Total Metals Digest	Completed					12/04/14	CB/AG	SW846 - 3050

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-2

Phoenix I.D.: BH49051

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND		240	120	ug/Kg	12/05/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND		240	100	ug/Kg	12/05/14	DD	SW 8270	
1,2-Dichlorobenzene	ND		240	96	ug/Kg	12/05/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND		240	110	ug/Kg	12/05/14	DD	SW 8270	
1,3-Dichlorobenzene	ND		240	100	ug/Kg	12/05/14	DD	SW 8270	
1,4-Dichlorobenzene	ND		240	100	ug/Kg	12/05/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND		240	190	ug/Kg	12/05/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND		240	110	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dichlorophenol	ND		240	120	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dimethylphenol	ND		240	84	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dinitrophenol	ND		1700	240	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dinitrotoluene	ND		240	130	ug/Kg	12/05/14	DD	SW 8270	
2,6-Dinitrotoluene	ND		240	110	ug/Kg	12/05/14	DD	SW 8270	
2-Chloronaphthalene	ND		240	96	ug/Kg	12/05/14	DD	SW 8270	
2-Chlorophenol	ND		240	96	ug/Kg	12/05/14	DD	SW 8270	
2-Methylnaphthalene	100	J	240	100	ug/Kg	12/05/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		240	160	ug/Kg	12/05/14	DD	SW 8270	
2-Nitroaniline	ND		1700	340	ug/Kg	12/05/14	DD	SW 8270	
2-Nitrophenol	ND		240	220	ug/Kg	12/05/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		240	130	ug/Kg	12/05/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND		680	160	ug/Kg	12/05/14	DD	SW 8270	
3-Nitroaniline	ND		1700	740	ug/Kg	12/05/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		1700	370	ug/Kg	12/05/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		240	100	ug/Kg	12/05/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND		240	120	ug/Kg	12/05/14	DD	SW 8270	
4-Chloroaniline	ND		680	160	ug/Kg	12/05/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		240	110	ug/Kg	12/05/14	DD	SW 8270	
4-Nitroaniline	ND		1700	110	ug/Kg	12/05/14	DD	SW 8270	
4-Nitrophenol	ND		1700	150	ug/Kg	12/05/14	DD	SW 8270	
Acenaphthene	220	J	240	100	ug/Kg	12/05/14	DD	SW 8270	
Acenaphthylene	110	J	240	95	ug/Kg	12/05/14	DD	SW 8270	
Acetophenone	ND		240	110	ug/Kg	12/05/14	DD	SW 8270	
Aniline	ND		1700	690	ug/Kg	12/05/14	DD	SW 8270	
Anthracene	550		240	110	ug/Kg	12/05/14	DD	SW 8270	
Benz(a)anthracene	1200		240	110	ug/Kg	12/05/14	DD	SW 8270	
Benzidine	ND		680	200	ug/Kg	12/05/14	DD	SW 8270	
Benzo(a)pyrene	1100		240	110	ug/Kg	12/05/14	DD	SW 8270	
Benzo(b)fluoranthene	1500		240	120	ug/Kg	12/05/14	DD	SW 8270	
Benzo(ghi)perylene	690		240	110	ug/Kg	12/05/14	DD	SW 8270	
Benzo(k)fluoranthene	510		240	110	ug/Kg	12/05/14	DD	SW 8270	
Benzoic acid	ND		1700	680	ug/Kg	12/05/14	DD	SW 8270	1
Benzyl butyl phthalate	ND		240	88	ug/Kg	12/05/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		240	94	ug/Kg	12/05/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		240	92	ug/Kg	12/05/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		240	94	ug/Kg	12/05/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND		240	98	ug/Kg	12/05/14	DD	SW 8270	
Carbazole	260	J	1700	260	ug/Kg	12/05/14	DD	SW 8270	
Chrysene	1400		240	110	ug/Kg	12/05/14	DD	SW 8270	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-2

Phoenix I.D.: BH49051

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Dibenz(a,h)anthracene	200	J	240	110	ug/Kg	12/05/14	DD	SW 8270
Dibenzofuran	170	J	240	99	ug/Kg	12/05/14	DD	SW 8270
Diethyl phthalate	ND		240	110	ug/Kg	12/05/14	DD	SW 8270
Dimethylphthalate	ND		240	110	ug/Kg	12/05/14	DD	SW 8270
Di-n-butylphthalate	ND		240	90	ug/Kg	12/05/14	DD	SW 8270
Di-n-octylphthalate	ND		240	88	ug/Kg	12/05/14	DD	SW 8270
Fluoranthene	2300		240	110	ug/Kg	12/05/14	DD	SW 8270
Fluorene	220	J	240	110	ug/Kg	12/05/14	DD	SW 8270
Hexachlorobenzene	ND		240	99	ug/Kg	12/05/14	DD	SW 8270
Hexachlorobutadiene	ND		240	120	ug/Kg	12/05/14	DD	SW 8270
Hexachlorocyclopentadiene	ND		240	100	ug/Kg	12/05/14	DD	SW 8270
Hexachloroethane	ND		240	100	ug/Kg	12/05/14	DD	SW 8270
Indeno(1,2,3-cd)pyrene	710		240	110	ug/Kg	12/05/14	DD	SW 8270
Isophorone	ND		240	95	ug/Kg	12/05/14	DD	SW 8270
Naphthalene	190	J	240	98	ug/Kg	12/05/14	DD	SW 8270
Nitrobenzene	ND		240	120	ug/Kg	12/05/14	DD	SW 8270
N-Nitrosodimethylamine	ND		240	96	ug/Kg	12/05/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		240	110	ug/Kg	12/05/14	DD	SW 8270
N-Nitrosodiphenylamine	ND		240	130	ug/Kg	12/05/14	DD	SW 8270
Pentachloronitrobenzene	ND		240	130	ug/Kg	12/05/14	DD	SW 8270
Pentachlorophenol	ND		240	130	ug/Kg	12/05/14	DD	SW 8270
Phenanthrene	2300		240	97	ug/Kg	12/05/14	DD	SW 8270
Phenol	ND		240	110	ug/Kg	12/05/14	DD	SW 8270
Pyrene	1900		240	120	ug/Kg	12/05/14	DD	SW 8270
Pyridine	ND		240	83	ug/Kg	12/05/14	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	93				%	12/05/14	DD	19 - 122 %
% 2-Fluorobiphenyl	84				%	12/05/14	DD	30 - 115 %
% 2-Fluorophenol	61				%	12/05/14	DD	25 - 121 %
% Nitrobenzene-d5	80				%	12/05/14	DD	23 - 120 %
% Phenol-d5	69				%	12/05/14	DD	24 - 113 %
% Terphenyl-d14	77				%	12/05/14	DD	18 - 137 %

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-2

Phoenix I.D.: BH49051

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 11, 2014
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 11, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KW	12/03/14	10:15
Location Code:	EBC	Received by:	SW	12/04/14	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH49051
Phoenix ID: BH49052

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-5

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.36		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Aluminum	7670	*	36	7.2	mg/Kg	12/09/14	LK	SW6010
Arsenic	2.0		0.7	0.72	mg/Kg	12/05/14	LK	SW6010
Barium	68.0		0.7	0.36	mg/Kg	12/05/14	LK	SW6010
Beryllium	0.45		0.29	0.14	mg/Kg	12/05/14	LK	SW6010
Calcium	2020	*	3.6	3.3	mg/Kg	12/05/14	LK	SW6010
Cadmium	0.27	B	0.36	0.14	mg/Kg	12/05/14	LK	SW6010
Cobalt	7.63		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Chromium	16.3		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Copper	23.4		0.36	0.36	mg/kg	12/05/14	LK	SW6010
Iron	18700	*	36	36	mg/Kg	12/09/14	LK	SW6010
Mercury	0.17		0.08	0.05	mg/Kg	12/05/14	MA	SW-7471
Potassium	877	N	7	2.8	mg/Kg	12/05/14	LK	SW6010
Magnesium	2120		36	36	mg/Kg	12/09/14	LK	SW6010
Manganese	393	N	3.6	3.6	mg/Kg	12/09/14	LK	SW6010
Sodium	60	N*	7	3.1	mg/Kg	12/05/14	LK	SW6010
Nickel	15.8		0.36	0.36	mg/Kg	12/05/14	LK	SW6010
Lead	80.4		0.7	0.36	mg/Kg	12/05/14	LK	SW6010
Antimony	< 1.8		1.8	1.8	mg/Kg	12/09/14	LK	SW6010
Selenium	< 1.4		1.4	1.2	mg/Kg	12/05/14	LK	SW6010
Thallium	< 1.4		1.4	1.4	mg/Kg	12/05/14	LK	SW6010
Vanadium	26.5	N*	0.4	0.36	mg/Kg	12/05/14	LK	SW6010
Zinc	66.6		0.7	0.36	mg/Kg	12/05/14	LK	SW6010
Percent Solid	91				%	12/04/14	I	SW846
Soil Extraction for SVOA	Completed					12/04/14	JJ/VH	SW3545
Mercury Digestion	Completed					12/05/14	I/I	SW7471
Total Metals Digest	Completed					12/04/14	CB/AG	SW846 - 3050

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-5

Phoenix I.D.: BH49052

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND		250	130	ug/Kg	12/05/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
1,2-Dichlorobenzene	ND		250	100	ug/Kg	12/05/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND		250	120	ug/Kg	12/05/14	DD	SW 8270	
1,3-Dichlorobenzene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
1,4-Dichlorobenzene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND		250	200	ug/Kg	12/05/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND		250	120	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dichlorophenol	ND		250	130	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dimethylphenol	ND		250	89	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dinitrophenol	ND		1800	250	ug/Kg	12/05/14	DD	SW 8270	
2,4-Dinitrotoluene	ND		250	140	ug/Kg	12/05/14	DD	SW 8270	
2,6-Dinitrotoluene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
2-Chloronaphthalene	ND		250	100	ug/Kg	12/05/14	DD	SW 8270	
2-Chlorophenol	ND		250	100	ug/Kg	12/05/14	DD	SW 8270	
2-Methylnaphthalene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	12/05/14	DD	SW 8270	
2-Nitroaniline	ND		1800	360	ug/Kg	12/05/14	DD	SW 8270	
2-Nitrophenol	ND		250	230	ug/Kg	12/05/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	12/05/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND		720	170	ug/Kg	12/05/14	DD	SW 8270	
3-Nitroaniline	ND		1800	780	ug/Kg	12/05/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		1800	390	ug/Kg	12/05/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	12/05/14	DD	SW 8270	
4-Chloroaniline	ND		720	170	ug/Kg	12/05/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	12/05/14	DD	SW 8270	
4-Nitroaniline	ND		1800	120	ug/Kg	12/05/14	DD	SW 8270	
4-Nitrophenol	ND		1800	160	ug/Kg	12/05/14	DD	SW 8270	
Acenaphthene	120	J	250	110	ug/Kg	12/05/14	DD	SW 8270	
Acenaphthylene	140	J	250	100	ug/Kg	12/05/14	DD	SW 8270	
Acetophenone	ND		250	110	ug/Kg	12/05/14	DD	SW 8270	
Aniline	ND		1800	730	ug/Kg	12/05/14	DD	SW 8270	
Anthracene	360		250	120	ug/Kg	12/05/14	DD	SW 8270	
Benz(a)anthracene	1200		250	120	ug/Kg	12/05/14	DD	SW 8270	
Benzidine	ND		720	210	ug/Kg	12/05/14	DD	SW 8270	
Benzo(a)pyrene	1100		250	120	ug/Kg	12/05/14	DD	SW 8270	
Benzo(b)fluoranthene	1600		250	120	ug/Kg	12/05/14	DD	SW 8270	
Benzo(ghi)perylene	610		250	120	ug/Kg	12/05/14	DD	SW 8270	
Benzo(k)fluoranthene	560		250	120	ug/Kg	12/05/14	DD	SW 8270	
Benzoic acid	ND		1800	720	ug/Kg	12/05/14	DD	SW 8270	1
Benzyl butyl phthalate	ND		250	93	ug/Kg	12/05/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		250	100	ug/Kg	12/05/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		250	97	ug/Kg	12/05/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		250	100	ug/Kg	12/05/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	12/05/14	DD	SW 8270	
Carbazole	300	J	1800	270	ug/Kg	12/05/14	DD	SW 8270	
Chrysene	1400		250	120	ug/Kg	12/05/14	DD	SW 8270	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-5

Phoenix I.D.: BH49052

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Dibenz(a,h)anthracene	150	J	250	120	ug/Kg	12/05/14	DD	SW 8270
Dibenzofuran	130	J	250	110	ug/Kg	12/05/14	DD	SW 8270
Diethyl phthalate	ND		250	110	ug/Kg	12/05/14	DD	SW 8270
Dimethylphthalate	ND		250	110	ug/Kg	12/05/14	DD	SW 8270
Di-n-butylphthalate	ND		250	96	ug/Kg	12/05/14	DD	SW 8270
Di-n-octylphthalate	ND		250	93	ug/Kg	12/05/14	DD	SW 8270
Fluoranthene	2600		250	120	ug/Kg	12/05/14	DD	SW 8270
Fluorene	170	J	250	120	ug/Kg	12/05/14	DD	SW 8270
Hexachlorobenzene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270
Hexachlorobutadiene	ND		250	130	ug/Kg	12/05/14	DD	SW 8270
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	12/05/14	DD	SW 8270
Hexachloroethane	ND		250	110	ug/Kg	12/05/14	DD	SW 8270
Indeno(1,2,3-cd)pyrene	660		250	120	ug/Kg	12/05/14	DD	SW 8270
Isophorone	ND		250	100	ug/Kg	12/05/14	DD	SW 8270
Naphthalene	110	J	250	100	ug/Kg	12/05/14	DD	SW 8270
Nitrobenzene	ND		250	130	ug/Kg	12/05/14	DD	SW 8270
N-Nitrosodimethylamine	ND		250	100	ug/Kg	12/05/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		250	120	ug/Kg	12/05/14	DD	SW 8270
N-Nitrosodiphenylamine	ND		250	140	ug/Kg	12/05/14	DD	SW 8270
Pentachloronitrobenzene	ND		250	130	ug/Kg	12/05/14	DD	SW 8270
Pentachlorophenol	ND		250	140	ug/Kg	12/05/14	DD	SW 8270
Phenanthrene	2100		250	100	ug/Kg	12/05/14	DD	SW 8270
Phenol	ND		250	120	ug/Kg	12/05/14	DD	SW 8270
Pyrene	2100		250	120	ug/Kg	12/05/14	DD	SW 8270
Pyridine	ND		250	89	ug/Kg	12/05/14	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	93				%	12/05/14	DD	19 - 122 %
% 2-Fluorobiphenyl	85				%	12/05/14	DD	30 - 115 %
% 2-Fluorophenol	68				%	12/05/14	DD	25 - 121 %
% Nitrobenzene-d5	91				%	12/05/14	DD	23 - 120 %
% Phenol-d5	75				%	12/05/14	DD	24 - 113 %
% Terphenyl-d14	85				%	12/05/14	DD	18 - 137 %

Project ID: 1035 FULTON ST BROOKLYN
Client ID: EP-5

Phoenix I.D.: BH49052

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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Phyllis Shiller, Laboratory Director
December 11, 2014
Reviewed and Released by: Ethan Lee, Project Manager

Sample Criteria Exceedences Report

GBH49051 - EBC

Criteria: NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BH49051	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1500	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1400	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	710	240	500	500	ug/Kg
BH49051	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1200	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	710	240	500	500	ug/Kg
BH49051	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	710	240	500	500	ug/Kg
BH49051	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	240	1000	1000	ug/Kg
BH49051	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	240	1000	1000	ug/Kg
BH49051	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	85.1	0.7	63	63	mg/Kg
BH49052	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1600	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1400	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	660	250	500	500	ug/Kg
BH49052	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1200	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	660	250	500	500	ug/Kg
BH49052	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	250	1000	1000	ug/Kg
BH49052	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	660	250	500	500	ug/Kg
BH49052	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	80.4	0.7	63	63	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

December 11, 2014

SDG I.D.: GBH49051

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4 °C Pg of

Contact Options:
[ ] Fax:
[■] Phone: (631) 504-6000
[■] Email: Csosik@ebcincny.com

Customer: Environmental Business Consultants
Address: 1808 Middle Country Road
Ridge, New York 11961

Project: 1035 Fulton St Brooklyn NY
Report to: Environmental Business Consultants
Invoice to: Environmental Business Consultants

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kevin Waters Date: 12-3-14

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	~~VOCs 8260~~	SVOCs 8270	~~Pesticides/PCBs~~	TAL Metals									Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] HCl	GL Amber 1000ml [ ] As is	PL As is [ ] 250ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
49051	EP-2	S	12-3	1000		X		X										1								
49052	EP-5	S	12-3	1015		X		X										1								

Relinquished by:	Accepted by:	Date:	Time:
		12-4-14	11:35
		12-4-14	1540

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[■] NY375 Unrestricted Use Soil
[■] NY375 Residential
[■] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[ ] Phoenix Std Report
[■] Excel
[■] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[■] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[■] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Thursday, August 14, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON ST., BROOKLY
Sample ID#s: BG82182

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

August 14, 2014

SDG I.D.: GBG82182

Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Client: Environmental Business Consultants

Project: 1035 FULTON ST., BROOKLY

Laboratory Project: GBG82182

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

NY Analytical Services Protocol Format

August 14, 2014 **SDG I.D.: GBG82182**

Environmental Business Consultants 1035 FULTON ST., BROOKLY

Methodology Summary

Metals

ICP :
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.
Mercury:
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

Semivolatile Organic Compounds

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
EP3	BG82182	SOIL

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

August 14, 2014 **SDG I.D.: GBG82182**

Environmental Business Consultants 1035 FULTON ST., BROOKLY

Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BG82182	Aluminum	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Antimony	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Arsenic	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Barium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Beryllium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Cadmium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Calcium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Chromium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Cobalt	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Copper	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Iron	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Lead	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Magnesium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Manganese	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Mercury	07/24/14	07/28/14	07/28/14	MA	Y
BG82182	Nickel	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Potassium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Selenium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Semivolatiles	07/24/14	07/25/14	07/27/14	DD	Y
BG82182	Silver	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Sodium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Thallium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Vanadium	07/24/14	07/25/14	07/29/14	EK	Y
BG82182	Zinc	07/24/14	07/25/14	07/29/14	EK	Y

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 14, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/24/14	14:40
Location Code:	EBC	Received by:	LB	07/25/14	16:43
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG82182
Phoenix ID: BG82182

Project ID: 1035 FULTON ST., BROOKLY
Client ID: EP3

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.34		0.34	0.34	mg/Kg	07/29/14	EK	SW6010
Aluminum	4140		34	6.7	mg/Kg	07/29/14	EK	SW6010
Arsenic	1.3	*	0.7	0.67	mg/Kg	07/29/14	EK	SW6010
Barium	30.5		0.7	0.34	mg/Kg	07/29/14	EK	SW6010
Beryllium	0.30		0.27	0.13	mg/Kg	07/29/14	EK	SW6010
Calcium	2420		3.4	3.1	mg/Kg	07/29/14	EK	SW6010
Cadmium	0.18	B	0.34	0.13	mg/Kg	07/29/14	EK	SW6010
Cobalt	5.14		0.34	0.34	mg/Kg	07/29/14	EK	SW6010
Chromium	13.4		0.34	0.34	mg/Kg	07/29/14	EK	SW6010
Copper	11.2		0.34	0.34	mg/kg	07/29/14	EK	SW6010
Iron	9270		34	34	mg/Kg	07/29/14	EK	SW6010
Mercury	< 0.07		0.07	0.04	mg/Kg	07/28/14	MA	SW-7471
Potassium	1660	N	7	2.6	mg/Kg	07/29/14	EK	SW6010
Magnesium	3040		3.4	3.4	mg/Kg	07/29/14	EK	SW6010
Manganese	213	N	3.4	3.4	mg/Kg	07/29/14	EK	SW6010
Sodium	129		7	2.9	mg/Kg	07/29/14	EK	SW6010
Nickel	20.8		0.34	0.34	mg/Kg	07/29/14	EK	SW6010
Lead	6.7		0.7	0.34	mg/Kg	07/29/14	EK	SW6010
Antimony	< 1.7		1.7	1.7	mg/Kg	07/29/14	EK	SW6010
Selenium	< 1.3		1.3	1.1	mg/Kg	07/29/14	EK	SW6010
Thallium	< 1.3		1.3	1.3	mg/Kg	07/29/14	EK	SW6010
Vanadium	26.5		0.3	0.34	mg/Kg	07/29/14	EK	SW6010
Zinc	23.7		0.7	0.34	mg/Kg	07/29/14	EK	SW6010
Percent Solid	92				%	07/26/14	I	E160.3
Soil Extraction for SVOA	Completed					07/25/14	TJ/HF	SW3545
Mercury Digestion	Completed					07/28/14	I/I	SW7471
Total Metals Digest	Completed					07/25/14	CB\AG	SW846 - 3050

Project ID: 1035 FULTON ST., BROOKLY
Client ID: EP3

Phoenix I.D.: BG82182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	07/27/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	07/27/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	07/27/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
2,4-Dichlorophenol	ND	250	130	ug/Kg	07/27/14	DD	SW 8270	
2,4-Dimethylphenol	ND	250	89	ug/Kg	07/27/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1800	250	ug/Kg	07/27/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	250	140	ug/Kg	07/27/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
2-Chloronaphthalene	ND	250	100	ug/Kg	07/27/14	DD	SW 8270	
2-Chlorophenol	ND	250	100	ug/Kg	07/27/14	DD	SW 8270	
2-Methylnaphthalene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	07/27/14	DD	SW 8270	
2-Nitroaniline	ND	1800	360	ug/Kg	07/27/14	DD	SW 8270	
2-Nitrophenol	ND	250	230	ug/Kg	07/27/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	07/27/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	720	170	ug/Kg	07/27/14	DD	SW 8270	
3-Nitroaniline	ND	1800	780	ug/Kg	07/27/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1800	390	ug/Kg	07/27/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	07/27/14	DD	SW 8270	
4-Chloroaniline	ND	720	170	ug/Kg	07/27/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
4-Nitroaniline	ND	1800	120	ug/Kg	07/27/14	DD	SW 8270	
4-Nitrophenol	ND	1800	160	ug/Kg	07/27/14	DD	SW 8270	
Acenaphthene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
Acenaphthylene	ND	250	100	ug/Kg	07/27/14	DD	SW 8270	
Acetophenone	ND	250	110	ug/Kg	07/27/14	DD	SW 8270	
Aniline	ND	1800	730	ug/Kg	07/27/14	DD	SW 8270	
Anthracene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
Benz(a)anthracene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
Benzidine	ND	720	210	ug/Kg	07/27/14	DD	SW 8270	
Benzo(a)pyrene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
Benzo(ghi)perylene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	
Benzoic acid	ND	1800	720	ug/Kg	07/27/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	250	93	ug/Kg	07/27/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	99	ug/Kg	07/27/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	250	97	ug/Kg	07/27/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	07/27/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	07/27/14	DD	SW 8270	
Carbazole	ND	1800	270	ug/Kg	07/27/14	DD	SW 8270	
Chrysene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270	

Project ID: 1035 FULTON ST., BROOKLY
Client ID: EP3

Phoenix I.D.: BG82182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
Dibenzofuran	ND	250	100	ug/Kg	07/27/14	DD	SW 8270
Diethyl phthalate	ND	250	110	ug/Kg	07/27/14	DD	SW 8270
Dimethylphthalate	ND	250	110	ug/Kg	07/27/14	DD	SW 8270
Di-n-butylphthalate	ND	250	96	ug/Kg	07/27/14	DD	SW 8270
Di-n-octylphthalate	ND	250	93	ug/Kg	07/27/14	DD	SW 8270
Fluoranthene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
Fluorene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
Hexachlorobenzene	ND	250	100	ug/Kg	07/27/14	DD	SW 8270
Hexachlorobutadiene	ND	250	130	ug/Kg	07/27/14	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	07/27/14	DD	SW 8270
Hexachloroethane	ND	250	110	ug/Kg	07/27/14	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
Isophorone	ND	250	100	ug/Kg	07/27/14	DD	SW 8270
Naphthalene	ND	250	100	ug/Kg	07/27/14	DD	SW 8270
Nitrobenzene	ND	250	130	ug/Kg	07/27/14	DD	SW 8270
N-Nitrosodimethylamine	ND	250	100	ug/Kg	07/27/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	07/27/14	DD	SW 8270
Pentachloronitrobenzene	ND	250	130	ug/Kg	07/27/14	DD	SW 8270
Pentachlorophenol	ND	250	140	ug/Kg	07/27/14	DD	SW 8270
Phenanthrene	ND	250	100	ug/Kg	07/27/14	DD	SW 8270
Phenol	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
Pyrene	ND	250	120	ug/Kg	07/27/14	DD	SW 8270
Pyridine	ND	250	88	ug/Kg	07/27/14	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	105			%	07/27/14	DD	19 - 122 %
% 2-Fluorobiphenyl	95			%	07/27/14	DD	30 - 115 %
% 2-Fluorophenol	86			%	07/27/14	DD	25 - 121 %
% Nitrobenzene-d5	87			%	07/27/14	DD	23 - 120 %
% Phenol-d5	88			%	07/27/14	DD	24 - 113 %
% Terphenyl-d14	116			%	07/27/14	DD	18 - 137 %

Project ID: 1035 FULTON ST., BROOKLY
Client ID: EP3

Phoenix I.D.: BG82182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 14, 2014
Reviewed and Released by: Tina Covensky

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

August 14, 2014

QA/QC Data

SDG I.D.: GBG82182

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 281184, QC Sample No: BG81339 (BG82182)													
ICP Metals - Soil													
Aluminum	BRL	8320	9010	8.00	105	104	1.0	NC	NC	NC	80 - 120	30	
Antimony	BRL	<1.9	<4.0	NC	125	126	0.8	85.8	89.4	4.1	70 - 130	30	
Arsenic	BRL	4.5	7.08	44.6	105	106	0.9	93.0	96.1	3.3	80 - 120	30	r
Barium	BRL	62.6	67.8	8.00	102	98.8	3.2	104	109	4.7	80 - 120	30	
Beryllium	BRL	0.47	0.46	NC	102	103	1.0	96.0	99.6	3.7	80 - 120	30	
Cadmium	BRL	0.26	0.25	NC	104	104	0.0	92.5	95.5	3.2	80 - 120	30	
Calcium	BRL	1080	945	13.3	99.5	99.9	0.4	NC	NC	NC	80 - 120	30	
Chromium	BRL	17.7	20.4	14.2	105	106	0.9	99.9	103	3.1	80 - 120	30	
Cobalt	BRL	8.06	8.88	9.70	101	102	1.0	93.1	96.2	3.3	80 - 120	30	
Copper	BRL	17.7	18.8	6.00	104	103	1.0	104	106	1.9	80 - 120	30	
Iron	BRL	20200	20900	3.40	109	105	3.7	NC	NC	NC	80 - 120	30	
Lead	BRL	5.8	6.23	7.10	106	106	0.0	94.9	97.6	2.8	80 - 120	30	
Magnesium	BRL	2560	2970	14.8	107	106	0.9	NC	NC	NC	80 - 120	30	
Manganese	BRL	389	341	13.2	101	101	0.0	66.3	89.0	29.2	80 - 120	30	m
Nickel	BRL	15.4	15.6	1.30	105	106	0.9	95.8	98.8	3.1	80 - 120	30	
Potassium	BRL	1650	1590	3.70	95.8	94.7	1.2	>130	>130	NC	80 - 120	30	m
Selenium	BRL	<1.5	<1.6	NC	107	105	1.9	82.9	85.1	2.6	80 - 120	30	
Silver	BRL	<0.38	<0.40	NC	105	104	1.0	98.7	99.9	1.2	70 - 130	30	
Sodium	BRL	201	180	11.0	97.2	96.2	1.0	123	116	5.9	80 - 120	30	
Thallium	BRL	<1.5	<3.6	NC	105	104	1.0	94.8	96.7	2.0	80 - 120	30	
Vanadium	BRL	27.7	27.2	1.80	104	104	0.0	104	106	1.9	80 - 120	30	
Zinc	BRL	33.2	36.8	10.3	103	104	1.0	97.7	102	4.3	80 - 120	30	
QA/QC Batch 281278, QC Sample No: BG82181 (BG82182)													
Mercury - Soil	BRL	0.06	0.04 B	NC	86.4	80.6	6.9	87.2	92.1	5.5	75 - 125	30	

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

August 14, 2014

QA/QC Data

SDG I.D.: GBG82182

QA/QC Batch 281210, QC Sample No: BG82181 (BG82182)

Semivolatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	90	93	3.3	94	88	6.6	30 - 130	30	
1,2,4-Trichlorobenzene	ND	90	95	5.4	94	91	3.2	30 - 130	30	
1,2-Dichlorobenzene	ND	79	86	8.5	82	82	0.0	30 - 130	30	
1,2-Diphenylhydrazine	ND	93	95	2.1	102	97	5.0	30 - 130	30	
1,3-Dichlorobenzene	ND	78	87	10.9	82	82	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	76	85	11.2	81	81	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	102	103	1.0	113	104	8.3	30 - 130	30	
2,4,6-Trichlorophenol	ND	99	98	1.0	107	99	7.8	30 - 130	30	
2,4-Dichlorophenol	ND	92	95	3.2	98	91	7.4	30 - 130	30	
2,4-Dimethylphenol	ND	62	63	1.6	68	64	6.1	30 - 130	30	
2,4-Dinitrophenol	ND	<10	<10	NC	<10	<10	NC	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	104	107	2.8	112	106	5.5	30 - 130	30	m
2,6-Dinitrotoluene	ND	102	105	2.9	110	104	5.6	30 - 130	30	
2-Chloronaphthalene	ND	96	99	3.1	100	98	2.0	30 - 130	30	
2-Chlorophenol	ND	83	87	4.7	88	87	1.1	30 - 130	30	
2-Methylnaphthalene	ND	86	90	4.5	91	85	6.8	30 - 130	30	
2-Methylphenol (o-cresol)	ND	81	85	4.8	87	86	1.2	30 - 130	30	
2-Nitroaniline	ND	136	140	2.9	150	134	11.3	30 - 130	30	l,m
2-Nitrophenol	ND	99	93	6.3	106	98	7.8	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	81	83	2.4	87	84	3.5	30 - 130	30	
3,3'-Dichlorobenzidine	ND	87	114	26.9	116	83	33.2	30 - 130	30	r
3-Nitroaniline	ND	87	114	26.9	117	88	28.3	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	66	13	134.2	88	77	13.3	30 - 130	30	l,r
4-Bromophenyl phenyl ether	ND	92	95	3.2	99	95	4.1	30 - 130	30	
4-Chloro-3-methylphenol	ND	93	94	1.1	101	92	9.3	30 - 130	30	
4-Chloroaniline	ND	46	77	50.4	77	50	42.5	30 - 130	30	r
4-Chlorophenyl phenyl ether	ND	92	95	3.2	95	96	1.0	30 - 130	30	
4-Nitroaniline	ND	101	103	2.0	114	106	7.3	30 - 130	30	
4-Nitrophenol	ND	93	80	15.0	102	89	13.6	30 - 130	30	
Acenaphthene	ND	90	94	4.3	95	93	2.1	30 - 130	30	
Acenaphthylene	ND	92	94	2.2	96	94	2.1	30 - 130	30	
Acetophenone	ND	82	86	4.8	88	87	1.1	30 - 130	30	
Aniline	ND	62	87	33.6	85	58	37.8	30 - 130	30	r
Anthracene	ND	94	96	2.1	100	98	2.0	30 - 130	30	
Benz(a)anthracene	ND	93	95	2.1	100	96	4.1	30 - 130	30	
Benzidine	ND	>200	>200	NC	176	177	0.6	30 - 130	30	l,m
Benzo(a)pyrene	ND	90	92	2.2	98	93	5.2	30 - 130	30	
Benzo(b)fluoranthene	ND	95	90	5.4	95	91	4.3	30 - 130	30	
Benzo(ghi)perylene	ND	101	99	2.0	104	94	10.1	30 - 130	30	
Benzo(k)fluoranthene	ND	81	89	9.4	91	89	2.2	30 - 130	30	
Benzyl butyl phthalate	ND	92	91	1.1	98	97	1.0	30 - 130	30	

QA/QC Data

SDG I.D.: GBG82182

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bis(2-chloroethoxy)methane	ND	85	87	2.3	90	87	3.4	30 - 130	30	
Bis(2-chloroethyl)ether	ND	77	83	7.5	82	81	1.2	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	77	82	6.3	83	84	1.2	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	92	91	1.1	103	99	4.0	30 - 130	30	
Carbazole	ND	122	117	4.2	129	129	0.0	30 - 130	30	
Chrysene	ND	78	80	2.5	80	83	3.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	96	96	0.0	97	92	5.3	30 - 130	30	
Dibenzofuran	ND	90	92	2.2	95	93	2.1	30 - 130	30	
Diethyl phthalate	ND	94	97	3.1	101	97	4.0	30 - 130	30	
Dimethylphthalate	ND	93	96	3.2	100	96	4.1	30 - 130	30	
Di-n-butylphthalate	ND	102	100	2.0	107	107	0.0	30 - 130	30	
Di-n-octylphthalate	ND	84	86	2.4	93	90	3.3	30 - 130	30	
Fluoranthene	ND	107	104	2.8	111	117	5.3	30 - 130	30	
Fluorene	ND	91	93	2.2	94	96	2.1	30 - 130	30	
Hexachlorobenzene	ND	91	93	2.2	99	97	2.0	30 - 130	30	
Hexachlorobutadiene	ND	86	92	6.7	88	86	2.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	59	61	3.3	66	52	23.7	30 - 130	30	
Hexachloroethane	ND	78	86	9.8	82	83	1.2	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	98	98	0.0	100	94	6.2	30 - 130	30	
Isophorone	ND	90	94	4.3	96	92	4.3	30 - 130	30	
Naphthalene	ND	84	88	4.7	88	85	3.5	30 - 130	30	
Nitrobenzene	ND	80	84	4.9	86	85	1.2	30 - 130	30	
N-Nitrosodimethylamine	ND	71	77	8.1	76	74	2.7	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	79	82	3.7	87	81	7.1	30 - 130	30	
N-Nitrosodiphenylamine	ND	111	114	2.7	118	111	6.1	30 - 130	30	
Pentachloronitrobenzene	ND	100	103	3.0	108	104	3.8	30 - 130	30	
Pentachlorophenol	ND	90	46	64.7	112	97	14.4	30 - 130	30	m,r
Phenanthrene	ND	93	96	3.2	100	100	0.0	30 - 130	30	
Phenol	ND	87	93	6.7	94	91	3.2	30 - 130	30	m
Pyrene	ND	109	106	2.8	112	121	7.7	30 - 130	30	
Pyridine	ND	61	66	7.9	58	61	5.0	30 - 130	30	
% 2,4,6-Tribromophenol	100	92	86	6.7	105	99	5.9	19 - 122	30	
% 2-Fluorobiphenyl	94	90	91	1.1	94	93	1.1	30 - 115	30	
% 2-Fluorophenol	88	79	82	3.7	85	84	1.2	25 - 121	30	
% Nitrobenzene-d5	88	81	84	3.6	88	86	2.3	23 - 120	30	
% Phenol-d5	88	80	82	2.5	86	84	2.4	24 - 113	30	
% Terphenyl-d14	103	115	109	5.4	115	125	8.3	18 - 137	30	

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
August 14, 2014

Sample Criteria Exceedences Report

GBG82182 - EBC

Criteria: NY: 375, 375RS, CP51S

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

August 14, 2014

SDG I.D.: GBG82182

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 4 °C Pg of

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email: SCsosit@ebcinny.com

Customer: EBC
Address: 1808 Middle Country Rd

Project: 1035 Fulton Street. Brooklyn.
Report to: TBC
Invoice to:

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 7/24/14

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	SVOC 8270	TAL Metal												Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
82182	EP-3	S	7-24	1440	X	X													2								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	7-25-14	11:30
[signature]	Cpardise	7-25-14	1643

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[X] NY375 Unrestricted Use Soil
[X] NY375 Residential Soil
[X] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[ ] Phoenix Std Report
[X] Excel
[X] PDF
[ ] GIS/Key
[X] EQuIS
[ ] NJ Hazsite EDD
[X] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[X] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 01, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON STREET
Sample ID#s: BG62159

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

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Environmental Laboratories, Inc.
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NY # 11301

SDG Comments

July 01, 2014

SDG I.D.: GBG62159

Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Client: Environmental Business Consultants

Project: 1035 FULTON STREET

Laboratory Project: GBG62159

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

July 01, 2014 **SDG I.D.: GBG62159**

Environmental Business Consultants 1035 FULTON STREET

Methodology Summary

Metals

ICP :
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.
Mercury:
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

Semivolatile Organic Compounds

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
EP 4	BG62159	SOLID

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

July 01, 2014 **SDG I.D.: GBG62159**

Environmental Business Consultants 1035 FULTON STREET

Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BG62159	Aluminum	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Antimony	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Arsenic	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Barium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Beryllium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Cadmium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Calcium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Chromium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Cobalt	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Copper	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Iron	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Lead	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Magnesium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Manganese	06/16/14	06/18/14	06/21/14	LK	Y
BG62159	Mercury	06/16/14	06/19/14	06/19/14	RS	Y
BG62159	Nickel	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Potassium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Selenium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Semivolatiles	06/16/14	06/18/14	06/19/14	DD	Y
BG62159	Silver	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Sodium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Thallium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Vanadium	06/16/14	06/18/14	06/19/14	LK	Y
BG62159	Zinc	06/16/14	06/18/14	06/19/14	LK	Y

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/16/14	9:45
Location Code:	EBC	Received by:	SW	06/18/14	17:12
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG62159
Phoenix ID: BG62159

Project ID: 1035 FULTON STREET
Client ID: EP 4

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.33		0.33	0.33	mg/Kg	06/19/14	LK	SW6010	
Aluminum	6960		33	6.5	mg/Kg	06/19/14	LK	SW6010	
Arsenic	2.5		0.7	0.65	mg/Kg	06/19/14	LK	SW6010	
Barium	62.3		0.7	0.33	mg/Kg	06/19/14	LK	SW6010	
Beryllium	0.42		0.26	0.13	mg/Kg	06/19/14	LK	SW6010	
Calcium	2940		3.3	3.0	mg/Kg	06/19/14	LK	SW6010	
Cadmium	0.31	B	0.33	0.13	mg/Kg	06/19/14	LK	SW6010	
Cobalt	9.02		0.33	0.33	mg/Kg	06/19/14	LK	SW6010	
Chromium	17.3		0.33	0.33	mg/Kg	06/19/14	LK	SW6010	
Copper	22.1		0.33	0.33	mg/kg	06/19/14	LK	SW6010	
Iron	23400		33	33	mg/Kg	06/19/14	LK	SW6010	B
Mercury	0.09		0.07	0.04	mg/Kg	06/19/14	RS	SW-7471	
Potassium	1230		7	2.6	mg/Kg	06/19/14	LK	SW6010	
Magnesium	2860		3.3	3.3	mg/Kg	06/19/14	LK	SW6010	
Manganese	464	N	3.3	3.3	mg/Kg	06/21/14	LK	SW6010	
Sodium	167	*	7	2.8	mg/Kg	06/19/14	LK	SW6010	
Nickel	20.4		0.33	0.33	mg/Kg	06/19/14	LK	SW6010	
Lead	40.1		0.7	0.33	mg/Kg	06/19/14	LK	SW6010	
Antimony	< 1.6		1.6	1.6	mg/Kg	06/19/14	LK	SW6010	
Selenium	< 1.3		1.3	1.1	mg/Kg	06/19/14	LK	SW6010	
Thallium	< 1.3		1.3	1.3	mg/Kg	06/19/14	LK	SW6010	
Vanadium	46.5	N*	0.3	0.33	mg/Kg	06/19/14	LK	SW6010	
Zinc	56.6		0.7	0.33	mg/Kg	06/19/14	LK	SW6010	
Percent Solid	92				%	06/18/14	I	E160.3	
Soil Extraction for SVOA	Completed					06/18/14	BJ/FV	SW3545	
Mercury Digestion	Completed					06/19/14	I/I	SW7471	
Total Metals Digest	Completed					06/18/14	CB/AG	SW846 - 3050	

Project ID: 1035 FULTON STREET
Client ID: EP 4

Phoenix I.D.: BG62159

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND		250	130	ug/Kg	06/19/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
1,2-Dichlorobenzene	ND		250	100	ug/Kg	06/19/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND		250	120	ug/Kg	06/19/14	DD	SW 8270	
1,3-Dichlorobenzene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
1,4-Dichlorobenzene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND		250	190	ug/Kg	06/19/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
2,4-Dichlorophenol	ND		250	130	ug/Kg	06/19/14	DD	SW 8270	
2,4-Dimethylphenol	ND		250	88	ug/Kg	06/19/14	DD	SW 8270	
2,4-Dinitrophenol	ND		1800	250	ug/Kg	06/19/14	DD	SW 8270	
2,4-Dinitrotoluene	ND		250	140	ug/Kg	06/19/14	DD	SW 8270	
2,6-Dinitrotoluene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
2-Chloronaphthalene	ND		250	100	ug/Kg	06/19/14	DD	SW 8270	
2-Chlorophenol	ND		250	100	ug/Kg	06/19/14	DD	SW 8270	
2-Methylnaphthalene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	06/19/14	DD	SW 8270	
2-Nitroaniline	ND		1800	360	ug/Kg	06/19/14	DD	SW 8270	
2-Nitrophenol	ND		250	230	ug/Kg	06/19/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	06/19/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND		710	170	ug/Kg	06/19/14	DD	SW 8270	
3-Nitroaniline	ND		1800	770	ug/Kg	06/19/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		1800	380	ug/Kg	06/19/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		250	100	ug/Kg	06/19/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	06/19/14	DD	SW 8270	
4-Chloroaniline	ND		710	170	ug/Kg	06/19/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	06/19/14	DD	SW 8270	
4-Nitroaniline	ND		1800	120	ug/Kg	06/19/14	DD	SW 8270	
4-Nitrophenol	ND		1800	160	ug/Kg	06/19/14	DD	SW 8270	
Acenaphthene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
Acenaphthylene	ND		250	100	ug/Kg	06/19/14	DD	SW 8270	
Acetophenone	ND		250	110	ug/Kg	06/19/14	DD	SW 8270	
Aniline	ND		1800	720	ug/Kg	06/19/14	DD	SW 8270	
Anthracene	ND		250	120	ug/Kg	06/19/14	DD	SW 8270	
Benz(a)anthracene	280		250	120	ug/Kg	06/19/14	DD	SW 8270	
Benzidine	ND		710	210	ug/Kg	06/19/14	DD	SW 8270	
Benzo(a)pyrene	250	J	250	120	ug/Kg	06/19/14	DD	SW 8270	
Benzo(b)fluoranthene	330		250	120	ug/Kg	06/19/14	DD	SW 8270	
Benzo(ghi)perylene	170	J	250	120	ug/Kg	06/19/14	DD	SW 8270	
Benzo(k)fluoranthene	ND		250	120	ug/Kg	06/19/14	DD	SW 8270	
Benzoic acid	ND		1800	710	ug/Kg	06/19/14	DD	SW 8270	1
Benzyl butyl phthalate	ND		250	92	ug/Kg	06/19/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		250	98	ug/Kg	06/19/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		250	96	ug/Kg	06/19/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		250	99	ug/Kg	06/19/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	06/19/14	DD	SW 8270	
Carbazole	ND		1800	270	ug/Kg	06/19/14	DD	SW 8270	
Chrysene	280		250	120	ug/Kg	06/19/14	DD	SW 8270	

Project ID: 1035 FULTON STREET
Client ID: EP 4

Phoenix I.D.: BG62159

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND		250	120	ug/Kg	06/19/14	DD	SW 8270
Dibenzofuran	ND		250	100	ug/Kg	06/19/14	DD	SW 8270
Diethyl phthalate	ND		250	110	ug/Kg	06/19/14	DD	SW 8270
Dimethylphthalate	ND		250	110	ug/Kg	06/19/14	DD	SW 8270
Di-n-butylphthalate	ND		250	95	ug/Kg	06/19/14	DD	SW 8270
Di-n-octylphthalate	ND		250	92	ug/Kg	06/19/14	DD	SW 8270
Fluoranthene	550		250	120	ug/Kg	06/19/14	DD	SW 8270
Fluorene	ND		250	120	ug/Kg	06/19/14	DD	SW 8270
Hexachlorobenzene	ND		250	100	ug/Kg	06/19/14	DD	SW 8270
Hexachlorobutadiene	ND		250	130	ug/Kg	06/19/14	DD	SW 8270
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	06/19/14	DD	SW 8270
Hexachloroethane	ND		250	110	ug/Kg	06/19/14	DD	SW 8270
Indeno(1,2,3-cd)pyrene	140	J	250	120	ug/Kg	06/19/14	DD	SW 8270
Isophorone	ND		250	100	ug/Kg	06/19/14	DD	SW 8270
Naphthalene	ND		250	100	ug/Kg	06/19/14	DD	SW 8270
Nitrobenzene	ND		250	120	ug/Kg	06/19/14	DD	SW 8270
N-Nitrosodimethylamine	ND		250	100	ug/Kg	06/19/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		250	120	ug/Kg	06/19/14	DD	SW 8270
N-Nitrosodiphenylamine	ND		250	140	ug/Kg	06/19/14	DD	SW 8270
Pentachloronitrobenzene	ND		250	130	ug/Kg	06/19/14	DD	SW 8270
Pentachlorophenol	ND		250	130	ug/Kg	06/19/14	DD	SW 8270
Phenanthrene	340		250	100	ug/Kg	06/19/14	DD	SW 8270
Phenol	ND		250	110	ug/Kg	06/19/14	DD	SW 8270
Pyrene	500		250	120	ug/Kg	06/19/14	DD	SW 8270
Pyridine	ND		250	87	ug/Kg	06/19/14	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	72				%	06/19/14	DD	19 - 122 %
% 2-Fluorobiphenyl	72				%	06/19/14	DD	30 - 115 %
% 2-Fluorophenol	68				%	06/19/14	DD	25 - 121 %
% Nitrobenzene-d5	69				%	06/19/14	DD	23 - 120 %
% Phenol-d5	72				%	06/19/14	DD	24 - 113 %
% Terphenyl-d14	73				%	06/19/14	DD	18 - 137 %

Project ID: 1035 FULTON STREET
Client ID: EP 4

Phoenix I.D.: BG62159

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 01, 2014
Reviewed and Released by: Tina Covensky

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

July 01, 2014

QA/QC Data

SDG I.D.: GBG62159

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 277449, QC Sample No: BG60359 (BG62159)													
Mercury - Soil	BRL	0.23	0.13	NC	92.9	89.9	3.3	85.7	82.7	3.6	75 - 125	30	
QA/QC Batch 277390, QC Sample No: BG62159 (BG62159)													
ICP Metals - Soil													
Aluminum	BRL	6960	5180	29.3	92.9			NC	NC	NC	80 - 120	30	
Antimony	BRL	<1.6	<3.3	NC	87.8			81.4	82.9	1.8	80 - 120	30	
Arsenic	BRL	2.5	1.94	NC	82.7			83.1	85.8	3.2	80 - 120	30	
Barium	BRL	62.3	49.3	23.3	88.7			81.9	97.7	17.6	80 - 120	30	
Beryllium	BRL	0.42	0.32	NC	88.9			90.0	93.6	3.9	80 - 120	30	
Cadmium	BRL	0.31	0.31	NC	82.8			85.5	88.4	3.3	80 - 120	30	
Calcium	BRL	2940	3090	5.00	89.9			NC	NC	NC	80 - 120	30	
Chromium	BRL	17.3	15.2	12.9	91.2			89.4	96.6	7.7	80 - 120	30	
Cobalt	BRL	9.02	7.00	25.2	87.0			86.2	89.8	4.1	80 - 120	30	
Copper	BRL	22.1	18.2	19.4	89.4			89.8	94.8	5.4	80 - 120	30	
Iron	7.9	23400	19800	16.7	112			NC	NC	NC	80 - 120	30	
Lead	BRL	40.1	40.1	0	84.6			84.7	90.6	6.7	80 - 120	30	
Magnesium	BRL	2860	2890	1.00	87.3			NC	NC	NC	80 - 120	30	
Manganese	BRL	464	394	16.3	110			49.2	>130	NC	80 - 120	30	m
Nickel	BRL	20.4	19.5	4.50	86.5			83.4	89.6	7.2	80 - 120	30	
Potassium	BRL	1230	966	24.0	92.4			98.2	103	4.8	80 - 120	30	
Selenium	BRL	<1.3	<1.3	NC	95.7			93.2	95.8	2.8	80 - 120	30	
Silver	BRL	<0.33	<0.33	NC	77.9			83.6	86.7	3.6	80 - 120	30	l
Sodium	BRL	167	107	43.8	96.3			78.3	117	39.6	80 - 120	30	r
Thallium	BRL	<1.3	<3.0	NC	82.9			85.5	88.2	3.1	80 - 120	30	
Vanadium	BRL	46.5	26.4	55.1	91.6			74.9	83.2	10.5	80 - 120	30	r
Zinc	BRL	56.6	43.5	26.2	79.7			80.7	81.8	1.4	80 - 120	30	

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

July 01, 2014

QA/QC Data

SDG I.D.: GBG62159

QA/QC Batch 277399, QC Sample No: BG62159 (BG62159)

Semivolatiles - Solid

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	93	93	0.0	99	95	4.1	30 - 130	30	
1,2,4-Trichlorobenzene	ND	88	88	0.0	91	91	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	86	87	1.2	85	88	3.5	30 - 130	30	
1,2-Diphenylhydrazine	ND	102	101	1.0	101	102	1.0	30 - 130	30	
1,3-Dichlorobenzene	ND	86	86	0.0	84	87	3.5	30 - 130	30	
1,4-Dichlorobenzene	ND	85	85	0.0	83	86	3.6	30 - 130	30	
2,4,5-Trichlorophenol	ND	109	106	2.8	119	113	5.2	30 - 130	30	
2,4,6-Trichlorophenol	ND	105	97	7.9	117	112	4.4	30 - 130	30	
2,4-Dichlorophenol	ND	102	102	0.0	108	105	2.8	30 - 130	30	
2,4-Dimethylphenol	ND	61	60	1.7	64	64	0.0	30 - 130	30	
2,4-Dinitrophenol	ND	<10	<10	NC	<10	13	NC	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	103	104	1.0	109	106	2.8	30 - 130	30	m
2,6-Dinitrotoluene	ND	103	104	1.0	109	107	1.9	30 - 130	30	
2-Chloronaphthalene	ND	100	99	1.0	104	101	2.9	30 - 130	30	
2-Chlorophenol	ND	96	95	1.0	95	96	1.0	30 - 130	30	
2-Methylnaphthalene	ND	97	97	0.0	102	100	2.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	90	90	0.0	88	89	1.1	30 - 130	30	
2-Nitroaniline	ND	145	147	1.4	145	144	0.7	30 - 130	30	l,m
2-Nitrophenol	ND	97	86	12.0	99	104	4.9	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	96	95	1.0	95	95	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	138	138	0.0	150	147	2.0	30 - 130	30	l,m
3-Nitroaniline	ND	132	135	2.2	129	128	0.8	30 - 130	30	l
4,6-Dinitro-2-methylphenol	ND	42	13	105.5	101	90	11.5	30 - 130	30	l,r
4-Bromophenyl phenyl ether	ND	100	99	1.0	104	101	2.9	30 - 130	30	
4-Chloro-3-methylphenol	ND	110	109	0.9	113	113	0.0	30 - 130	30	m
4-Chloroaniline	ND	78	80	2.5	74	78	5.3	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	98	99	1.0	106	101	4.8	30 - 130	30	
4-Nitroaniline	ND	110	111	0.9	109	112	2.7	30 - 130	30	
4-Nitrophenol	ND	112	105	6.5	120	119	0.8	30 - 130	30	m
Acenaphthene	ND	98	98	0.0	105	100	4.9	30 - 130	30	
Acenaphthylene	ND	97	98	1.0	103	100	3.0	30 - 130	30	
Acetophenone	ND	96	96	0.0	94	96	2.1	30 - 130	30	
Aniline	ND	101	100	1.0	93	96	3.2	30 - 130	30	
Anthracene	ND	102	102	0.0	111	105	5.6	30 - 130	30	
Benz(a)anthracene	ND	97	98	1.0	109	101	7.6	30 - 130	30	
Benzidine	ND	>200	>200	NC	>200	>200	NC	30 - 130	30	l,m
Benzo(a)pyrene	ND	90	93	3.3	101	93	8.2	30 - 130	30	
Benzo(b)fluoranthene	ND	103	99	4.0	107	100	6.8	30 - 130	30	
Benzo(ghi)perylene	ND	93	97	4.2	111	106	4.6	30 - 130	30	
Benzo(k)fluoranthene	ND	96	104	8.0	105	100	4.9	30 - 130	30	
Benzyl butyl phthalate	ND	106	110	3.7	114	116	1.7	30 - 130	30	

QA/QC Data

SDG I.D.: GBG62159

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bis(2-chloroethoxy)methane	ND	94	93	1.1	93	96	3.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	86	86	0.0	82	86	4.8	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	94	94	0.0	88	94	6.6	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	92	95	3.2	101	104	2.9	30 - 130	30	
Carbazole	ND	135	139	2.9	150	146	2.7	30 - 130	30	l,m
Chrysene	ND	103	105	1.9	114	106	7.3	30 - 130	30	
Dibenz(a,h)anthracene	ND	97	100	3.0	110	108	1.8	30 - 130	30	
Dibenzofuran	ND	100	101	1.0	106	102	3.8	30 - 130	30	
Diethyl phthalate	ND	103	104	1.0	107	106	0.9	30 - 130	30	
Dimethylphthalate	ND	99	99	0.0	104	100	3.9	30 - 130	30	
Di-n-butylphthalate	ND	100	103	3.0	109	107	1.9	30 - 130	30	
Di-n-octylphthalate	ND	104	106	1.9	109	113	3.6	30 - 130	30	
Fluoranthene	ND	97	102	5.0	133	113	16.3	30 - 130	30	m
Fluorene	ND	102	104	1.9	111	106	4.6	30 - 130	30	
Hexachlorobenzene	ND	102	101	1.0	103	103	0.0	30 - 130	30	
Hexachlorobutadiene	ND	87	87	0.0	92	90	2.2	30 - 130	30	
Hexachlorocyclopentadiene	ND	68	70	2.9	59	51	14.5	30 - 130	30	
Hexachloroethane	ND	88	88	0.0	84	87	3.5	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	96	100	4.1	110	107	2.8	30 - 130	30	
Isophorone	ND	103	102	1.0	101	104	2.9	30 - 130	30	
Naphthalene	ND	92	91	1.1	95	96	1.0	30 - 130	30	
Nitrobenzene	ND	95	94	1.1	90	94	4.3	30 - 130	30	
N-Nitrosodimethylamine	ND	86	85	1.2	77	84	8.7	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	98	98	0.0	92	95	3.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	116	118	1.7	123	118	4.1	30 - 130	30	
Pentachloronitrobenzene	ND	98	100	2.0	107	103	3.8	30 - 130	30	
Pentachlorophenol	ND	67	36	60.2	131	119	9.6	30 - 130	30	m,r
Phenanthrene	ND	104	102	1.9	125	110	12.8	30 - 130	30	
Phenol	ND	102	99	3.0	99	100	1.0	30 - 130	30	m
Pyrene	ND	99	105	5.9	133	113	16.3	30 - 130	30	
Pyridine	ND	74	73	1.4	70	77	9.5	30 - 130	30	
% 2,4,6-Tribromophenol	103	113	103	9.3	112	115	2.6	19 - 122	30	
% 2-Fluorobiphenyl	91	100	99	1.0	104	101	2.9	30 - 115	30	
% 2-Fluorophenol	91	94	91	3.2	90	93	3.3	25 - 121	30	
% Nitrobenzene-d5	92	98	95	3.1	92	95	3.2	23 - 120	30	
% Phenol-d5	98	102	101	1.0	99	100	1.0	24 - 113	30	
% Terphenyl-d14	90	104	107	2.8	115	108	6.3	18 - 137	30	

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 01, 2014

Sample Criteria Exceedences Report

GBG62159 - EBC

Criteria: NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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NY Temperature Narration

July 01, 2014

SDG I.D.: GBG62159

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [✓] No [ ]
Coolant: Wet Ice [✓] ICE [ ] No [ ]
Temp 4 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[✓] Email:

Customer: EBL
Address: 1808 Middle Country Road Ridge, NY 11961

Project: 1035 Fulton Street
Report to: EBL
Invoice to: EBL

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6-16-14

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	SVOCs 8270	TAL Metals	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle
62159	EP4	S	6-16-14	0945	X	X		1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6-18-14	9:30
		6-18-14	1712

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[✓] NY375 Unrestricted Use Soil
[✓] NY375 Residential Soil
[✓] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[ ] Phoenix Std Report
[✓] Excel
[✓] PDF
[ ] GIS/Key
[✓] EQuIS
[ ] NJ Hazsite EDD
[✓] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[✓] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Wednesday, March 11, 2015

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON ST BROOKLYN NY
Sample ID#s: BH79963

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

March 11, 2015

SDG I.D.: GBH79963

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 11, 2015

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	RL	03/03/15	9:00
Location Code:	EBC	Received by:	SW	03/05/15	16:24
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH79963
Phoenix ID: BH79963

Project ID: 1035 FULTON ST BROOKLYN NY
Client ID: EP6

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.36		0.36	0.36	mg/Kg	03/09/15	EK	SW6010C
Aluminum	5120		36	7.2	mg/Kg	03/10/15	LK	SW6010C
Arsenic	1.7		0.7	0.72	mg/Kg	03/09/15	EK	SW6010C
Barium	52.4		0.7	0.36	mg/Kg	03/09/15	EK	SW6010C
Beryllium	0.28	B	0.29	0.14	mg/Kg	03/09/15	EK	SW6010C
Calcium	4820		36	33	mg/Kg	03/09/15	EK	SW6010C
Cadmium	0.20	B	0.36	0.14	mg/Kg	03/09/15	EK	SW6010C
Cobalt	6.46		0.36	0.36	mg/Kg	03/09/15	EK	SW6010C
Chromium	14.1		0.36	0.36	mg/Kg	03/09/15	EK	SW6010C
Copper	19.2		0.36	0.36	mg/kg	03/09/15	EK	SW6010C
Iron	16900		36	36	mg/Kg	03/10/15	LK	SW6010C
Mercury	0.17	*	0.03	0.02	mg/Kg	03/09/15	MA	SW7471B
Potassium	914	N	72	28	mg/Kg	03/09/15	EK	SW6010C
Magnesium	2290		36	36	mg/Kg	03/10/15	LK	SW6010C
Manganese	342	N	3.6	3.6	mg/Kg	03/09/15	EK	SW6010C
Sodium	126	N	7	3.1	mg/Kg	03/09/15	EK	SW6010C
Nickel	15.5		0.36	0.36	mg/Kg	03/09/15	EK	SW6010C
Lead	57.1		0.7	0.36	mg/Kg	03/09/15	EK	SW6010C
Antimony	< 1.8		1.8	1.8	mg/Kg	03/09/15	EK	SW6010C
Selenium	< 1.4		1.4	1.2	mg/Kg	03/09/15	EK	SW6010C
Thallium	< 1.4		1.4	1.4	mg/Kg	03/09/15	EK	SW6010C
Vanadium	23.4		0.4	0.36	mg/Kg	03/09/15	LK	SW6010C
Zinc	54.6	*	0.7	0.36	mg/Kg	03/09/15	EK	SW6010C
Percent Solid	92				%	03/05/15	I	SW846-%Solid
Soil Extraction for SVOA	Completed					03/05/15	BJ/VH	SW3545A
Mercury Digestion	Completed					03/09/15	I/I	SW7471B
Total Metals Digest	Completed					03/05/15	CB/AG	SW3050B

Project ID: 1035 FULTON ST BROOKLYN NY
Client ID: EP6

Phoenix I.D.: BH79963

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND		250	120	ug/Kg	03/06/15	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	03/06/15	DD	SW8270D	
1,2-Dichlorobenzene	ND		250	99	ug/Kg	03/06/15	DD	SW8270D	
1,2-Diphenylhydrazine	ND		250	110	ug/Kg	03/06/15	DD	SW8270D	
1,3-Dichlorobenzene	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
1,4-Dichlorobenzene	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
2,4,5-Trichlorophenol	ND		250	190	ug/Kg	03/06/15	DD	SW8270D	
2,4,6-Trichlorophenol	ND		250	110	ug/Kg	03/06/15	DD	SW8270D	
2,4-Dichlorophenol	ND		250	120	ug/Kg	03/06/15	DD	SW8270D	
2,4-Dimethylphenol	ND		250	87	ug/Kg	03/06/15	DD	SW8270D	
2,4-Dinitrophenol	ND		1800	250	ug/Kg	03/06/15	DD	SW8270D	
2,4-Dinitrotoluene	ND		250	140	ug/Kg	03/06/15	DD	SW8270D	
2,6-Dinitrotoluene	ND		250	110	ug/Kg	03/06/15	DD	SW8270D	
2-Chloronaphthalene	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
2-Chlorophenol	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
2-Methylnaphthalene	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	03/06/15	DD	SW8270D	
2-Nitroaniline	ND		1800	360	ug/Kg	03/06/15	DD	SW8270D	
2-Nitrophenol	ND		250	220	ug/Kg	03/06/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	03/06/15	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		700	170	ug/Kg	03/06/15	DD	SW8270D	
3-Nitroaniline	ND		1800	760	ug/Kg	03/06/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		1800	380	ug/Kg	03/06/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND		250	120	ug/Kg	03/06/15	DD	SW8270D	
4-Chloroaniline	ND		700	160	ug/Kg	03/06/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	03/06/15	DD	SW8270D	
4-Nitroaniline	ND		1800	120	ug/Kg	03/06/15	DD	SW8270D	
4-Nitrophenol	ND		1800	160	ug/Kg	03/06/15	DD	SW8270D	
Acenaphthene	110	J	250	110	ug/Kg	03/06/15	DD	SW8270D	
Acenaphthylene	ND		250	98	ug/Kg	03/06/15	DD	SW8270D	
Acetophenone	ND		250	110	ug/Kg	03/06/15	DD	SW8270D	
Aniline	ND		1800	710	ug/Kg	03/06/15	DD	SW8270D	
Anthracene	310		250	120	ug/Kg	03/06/15	DD	SW8270D	
Benz(a)anthracene	1100		250	120	ug/Kg	03/06/15	DD	SW8270D	
Benzidine	ND		700	210	ug/Kg	03/06/15	DD	SW8270D	
Benzo(a)pyrene	840		250	110	ug/Kg	03/06/15	DD	SW8270D	
Benzo(b)fluoranthene	1100		250	120	ug/Kg	03/06/15	DD	SW8270D	
Benzo(ghi)perylene	430		250	110	ug/Kg	03/06/15	DD	SW8270D	
Benzo(k)fluoranthene	400		250	120	ug/Kg	03/06/15	DD	SW8270D	
Benzoic acid	ND		1800	700	ug/Kg	03/06/15	DD	SW8270D	1
Benzyl butyl phthalate	ND		250	91	ug/Kg	03/06/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		250	97	ug/Kg	03/06/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		250	95	ug/Kg	03/06/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		250	98	ug/Kg	03/06/15	DD	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	03/06/15	DD	SW8270D	
Carbazole	ND		1800	270	ug/Kg	03/06/15	DD	SW8270D	
Chrysene	800		250	120	ug/Kg	03/06/15	DD	SW8270D	

Project ID: 1035 FULTON ST BROOKLYN NY
Client ID: EP6

Phoenix I.D.: BH79963

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	03/06/15	DD	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	03/06/15	DD	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	03/06/15	DD	SW8270D
Fluoranthene	2000	250	110	ug/Kg	03/06/15	DD	SW8270D
Fluorene	ND	250	120	ug/Kg	03/06/15	DD	SW8270D
Hexachlorobenzene	ND	250	100	ug/Kg	03/06/15	DD	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	03/06/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
Hexachloroethane	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	350	250	120	ug/Kg	03/06/15	DD	SW8270D
Isophorone	ND	250	98	ug/Kg	03/06/15	DD	SW8270D
Naphthalene	ND	250	100	ug/Kg	03/06/15	DD	SW8270D
Nitrobenzene	ND	250	120	ug/Kg	03/06/15	DD	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	03/06/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	250	130	ug/Kg	03/06/15	DD	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	03/06/15	DD	SW8270D
Pentachlorophenol	ND	250	130	ug/Kg	03/06/15	DD	SW8270D
Phenanthrene	1600	250	100	ug/Kg	03/06/15	DD	SW8270D
Phenol	ND	250	110	ug/Kg	03/06/15	DD	SW8270D
Pyrene	1700	250	120	ug/Kg	03/06/15	DD	SW8270D
Pyridine	ND	250	86	ug/Kg	03/06/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	98			%	03/06/15	DD	19 - 122 %
% 2-Fluorobiphenyl	96			%	03/06/15	DD	30 - 115 %
% 2-Fluorophenol	69			%	03/06/15	DD	25 - 121 %
% Nitrobenzene-d5	89			%	03/06/15	DD	23 - 120 %
% Phenol-d5	75			%	03/06/15	DD	24 - 113 %
% Terphenyl-d14	97			%	03/06/15	DD	18 - 137 %

Project ID: 1035 FULTON ST BROOKLYN NY
Client ID: EP6

Phoenix I.D.: BH79963

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 11, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Wednesday, March 11, 2015

Criteria: NY: 375, 375RRS, 375RS

State: NY

Sample Criteria Exceedences Report

GBH79963 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BH79963	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	250	1000	1000	ug/Kg
BH79963	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1100	250	1000	1000	ug/Kg
BH79963	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	250	1000	1000	ug/Kg
BH79963	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	250	1000	1000	ug/Kg
BH79963	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	1000	1000	ug/Kg
BH79963	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

March 11, 2015

SDG I.D.: GBH79963

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [✓] No [ ]
Coolant: IPK [✓] ICE [ ] No [ ]

Temp 4 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[■] Phone: (631) 504-6000
[■] Email: Csosik@ebcincny.com

Customer: Environmental Business Consultants
Address: 1808 Middle Country Road
Ridge, New York 11961

Project: 1035 Fulton St, Brooklyn NY
Report to: Environmental Business Consultants
Invoice to: Environmental Business Consultants

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Renton Lenhton Date: 3/3/15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	Pesticides/PCBs	TAL Metals								Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] HCl	GL Amber 1000ml [ ] As is	PL As is [ ] 250ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
79963	EP 6	S	3/3/15	9:00		X		X									1								

Relinquished by:	Accepted by:	Date:	Time:
		3-5-15	12:30
		3-5-15	16:24

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[■] NY375 Unrestricted Use Soil
[■] NY375 Residential
[■] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[ ] Phoenix Std Report
[■] Excel
[■] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[■] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[■] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

APPENDIX H

Soil Disposal Request Letter

May 2, 2014

Karen Vivo Hartley
Clean Earth
334 S. Warminster Rd
Hatboro, PA 19040

Re: Soil Characterization Sampling Summary
1035 Fulton Street, Brooklyn, NY

Ms. Vivo Hartley:

Environmental Business Consultants (EBC) collected additional soil samples from 1035 Fulton Street located in Brooklyn New York on April 17, 2014. These samples were collected to complete characterization of soil in the 0 to 6 foot interval for acceptance to your non-hazardous soil treatment, processing and recycling facility located at 3201 South 61st Street, Philadelphia, Pennsylvania (Clean Earth of Philadelphia).

To collect waste characterization soil samples from the Site, a total of nine test pits were completed across the Site to a total depth of 6 feet below grade (see attached figure for locations). One grab soil sample was collected from each test pit (C1 through C9) and submitted to Phoenix Environmental Laboratories, Inc. for analysis of TPH DRO/GRO in accordance with the frequency and analytical requirements of Clean Earth of Philadelphia. A copy of the laboratory report for the soil samples is attached for your records.

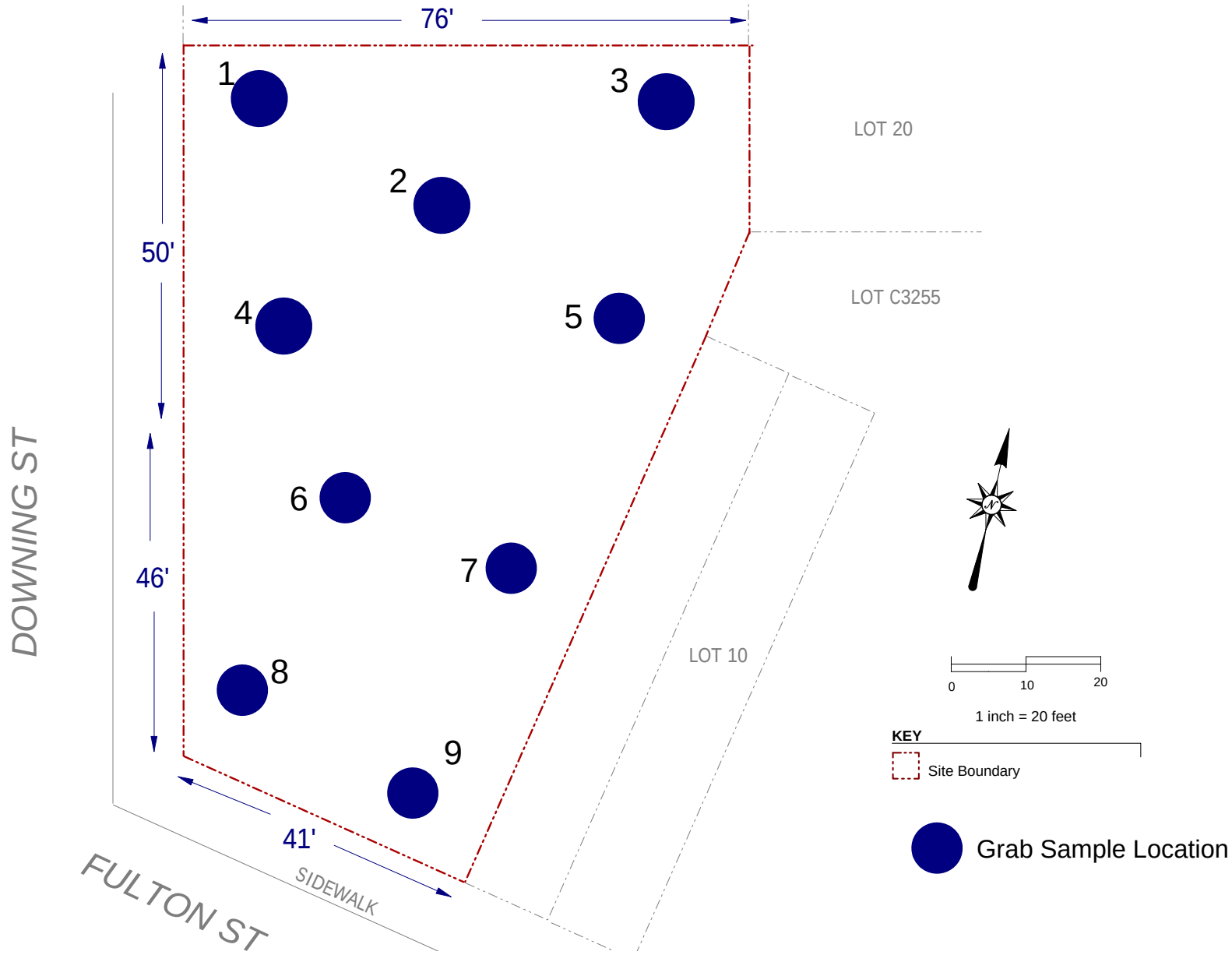
If you have any questions or require additional information please do not hesitate to contact me, thank you.

Very truly yours,

Kristen DiScenza
Project Manager

Cc: S. Chen, EBC

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870



EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Phone 631.504.6000
Fax 631. 924 .2870

1035 FULTON STREET
BROOKLYN, NY 11238

FIGURE 1

WASTE CHARACTERIZATION SAMPLING PLAN

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 01, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 1035 FULTON ST BROOKLYN
Sample ID#s: BG35509 - BG35517

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35509

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C1 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	86		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	320	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	117		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	ND	380	mg/Kg	04/29/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	50		%	04/29/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	65		%	04/29/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C1 0-6 FT

Phoenix I.D.: BG35509

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35510

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C2 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	86		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	330	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	118		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	410	380	mg/Kg	04/29/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	54		%	04/29/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	81		%	04/29/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C2 0-6 FT

Phoenix I.D.: BG35510

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35511

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C3 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	85		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	370	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	126		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	400	380	mg/Kg	04/30/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	57		%	04/30/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	81		%	04/30/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C3 0-6 FT

Phoenix I.D.: BG35511

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35512

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C4 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	86		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	320	56	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	111		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	550	390	mg/Kg	04/30/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	57		%	04/30/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	87		%	04/30/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C4 0-6 FT

Phoenix I.D.: BG35512

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35513

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C5 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	04/22/14	I	E160.3
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550
TPH by GC (Extractable Products)						
Fuel Oil #2 / Diesel Fuel	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
Fuel Oil #4	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
Fuel Oil #6	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
Kerosene	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
Motor Oil	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
Other Oil	**	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
Unidentified	270	57	mg/kg	04/23/14	JRB	8015M (C9-C36) 1
QA/QC Surrogates						
% n-Pentacosane	110		%	04/23/14	JRB	50 - 150 %
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO
Extractable Petroleum Hydrocarbons						
TPH to C44	ND	380	mg/Kg	04/30/14	JRB	8015Mod
QA/QC Surrogates						
% Chlorobenzene (surrogate)	76		%	04/30/14	JRB	60 - 120 %
% Pentacosane (surrogate)	66		%	04/30/14	JRB	50 - 150 %

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C5 0-6 FT

Phoenix I.D.: BG35513

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35514

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C6 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	84		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	630	58	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	150		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	640	390	mg/Kg	04/30/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	56		%	04/30/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	101		%	04/30/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C6 0-6 FT

Phoenix I.D.: BG35514

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35515

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C7 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	90		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	290	55	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	126		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	560	360	mg/Kg	04/30/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	49		%	04/30/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	84		%	04/30/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C7 0-6 FT

Phoenix I.D.: BG35515

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35516

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C8 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	81		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	390	61	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	127		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	1500	400	mg/Kg	04/30/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	52		%	04/30/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	200		%	04/30/14	JRB	50 - 150 %	3

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C8 0-6 FT

Phoenix I.D.: BG35516

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 01, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 01, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/14	9:00
Location Code:	EBC	Received by:	LK	04/22/14	14:46
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG35509
Phoenix ID: BG35517

Project ID: 1035 FULTON ST BROOKLYN
Client ID: C9 0-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Percent Solid	87		%	04/22/14	I	E160.3	
Ext. of Petroleum Hydrocarbons	Completed			04/28/14	BJ/D	3545	
Extraction of TPH SM	Completed			04/22/14	BJ/F	3545/3550	
TPH by GC (Extractable Products)							
Fuel Oil #2 / Diesel Fuel	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #4	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Fuel Oil #6	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Kerosene	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Motor Oil	ND	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Other Oil	**	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
Unidentified	400	57	mg/kg	04/23/14	JRB	8015M (C9-C36)	1
QA/QC Surrogates							
% n-Pentacosane	115		%	04/23/14	JRB	50 - 150 %	
Gasoline Range Organics	< 20	20	mg/Kg	04/22/14	JRB	8015GRO	
Extractable Petroleum Hydrocarbons							
TPH to C44	530	370	mg/Kg	04/30/14	JRB	8015Mod	
QA/QC Surrogates							
% Chlorobenzene (surrogate)	57		%	04/30/14	JRB	60 - 120 %	3
% Pentacosane (surrogate)	78		%	04/30/14	JRB	50 - 150 %	

Project ID: 1035 FULTON ST BROOKLYN

Client ID: C9 0-6 FT

Phoenix I.D.: BG35517

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

May 01, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

QA/QC Report

May 01, 2014

QA/QC Data

SDG I.D.: GBG35509

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 272294, QC Sample No: BG35509 (BG35509, BG35510, BG35511, BG35512, BG35513, BG35514, BG35515, BG35516, BG35517)										
TPH by GC (Extractable Products) - Soil										
Unidentified	ND	78	78	0.0	70	107	41.8	60 - 120	30	r
% n-Pentacosane	84	89	90	1.1	153	129	17.0	50 - 150	30	m
QA/QC Batch 272381, QC Sample No: BG35511 (BG35509, BG35510, BG35511, BG35512, BG35513, BG35514, BG35515, BG35516, BG35517)										
Gasoline Range Organics - Soil										
Gasoline Range Organics	BRL	76			62	64	3.2			

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 01, 2014

Sample Criteria Exceedences Report

GBG35509 - EBC

Criteria: NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

May 01, 2014

SDG I.D.: GBG35509

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4°C Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: Csosik@ebcincny.com

Customer: ~~1035~~ EBC
Address: 1808 Middle Country Rd
Ridge NY

Project: 1035 Fulton street, Brooklyn
Report to: EBC
Invoice to: EBC

Project P.O:
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4-21

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request: TPH GRO/DRO

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TPH GRO/DRO	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
	~~GW6 (5pts Comp)~~	~~S~~	~~4-21~~	~~900~~ SC											
35509	C1 0-6' (5pts Comp)	S	4-21	900	X		1								
35510	C2 0-6' (5pts Comp)	↓	↓	↓	X		1								
35511	C3 0-6' (5pts Comp)				X		1								
35512	C4 0-6' (5pts Comp)				X		1								
35513	C5 0-6' (5pts Comp)				X		1								
35514	C6 0-6' (5pts Comp)				X		1								
35515	C7 0-6' (5pts Comp)				X		1								
35516	C8 0-6' (5pts Comp)				X		1								
35517	C9 0-6' (5pts Comp)				X		1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	4-22-14	10:05
[signature]	THOTTL	4/22/14	14:46

Comments, Special Requirements or Regulations:

Turnaround:
☒ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TOGS GA GW
☐ CP-51 Soil
☒ NY375 Unrestricted Soil
☒ NY375 Residential Soil
☒ NY375 Restricted Non-Residential Soil

Data Format
☐ Phoenix Std Report
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

Sarah - Phoenixlabs

From: Kristen DiScenza [kdiscenza@ebcincny.com]
Sent: Monday, April 28, 2014 10:47 AM
To: sarah@phoenixlabs.com
Subject: GBG35509

Hey Sarah - can I have the samples IDs on this report edited? I just want to have the "5pt composite" removed from the IDs, if possible. The samples are actually grab samples, and were mis-labeled.

Thanks.
Kristen DiScenza
Environmental Business Consultants

Sarah - Phoenixlabs

From: Kristen DiScenza [kdiscenza@ebcincny.com]
Sent: Monday, April 28, 2014 11:15 AM
To: Sarah - Phoenixlabs
Subject: RE: GBG35509

yes, please. The disposal facilities always tell me what they need after they have the results!

Thanks
Kristen DiScenza
Environmental Business Consultants

On April 28, 2014 at 11:13 AM Sarah - Phoenixlabs <sarah@phoenixlabs.com> wrote:

We will have to rerun for that, do you want me to add on?

From: Kristen DiScenza [mailto:kdiscenza@ebcincny.com]
Sent: Monday, April 28, 2014 11:07 AM
To: sarah@phoenixlabs.com
Subject: Re: GBG35509

One more question on this - can the samples be reported out to C44? or will this require additional sample volume?

thanks
Kristen DiScenza
Environmental Business Consultants

On April 28, 2014 at 10:46 AM Kristen DiScenza <kdiscenza@ebcincny.com> wrote:

Hey Sarah - can I have the samples IDs on this report edited? I just want to have the "5pt composite" removed from the IDs, if possible. The samples are actually grab samples, and were mis-labeled.

Thanks.
Kristen DiScenza
Environmental Business Consultants

APPENDIX I

Soil Disposal Acceptance Letter

P Park NJ
100 Planten Ave.
Prospect Park, NJ 07508

6/11/2014

Kristin Foldes
Clean Earth LLC
334 South Warminster Road
Hatboro, PA 19040

Re: Fulton Hill Corner LLC
1035 Fulton Street
Brooklyn, NY 11238

Dear Kristin,

P Park NJ, LLC (P Park) has prepared this Approval Letter for Clean Earth LLC (Clean Earth) with regards to material from the above-referenced site. P Park has reviewed the laboratory data you provided and compared it with our current protocols for acceptance. The analytical results were reviewed for the purposes of determining if the material on the subject site is acceptable for placement at P Park located in Prospect Park, NJ.

The analytical results provided support that material from specific portions of the site meet P Park's Clean Fill Protocol. All the analytical results provided, were reviewed and compared to the NJDEP Remediation Standards for Residential Direct Contact Soil Cleanup Criteria and several areas were found to be below the standards. This approval is based solely upon the information provided on this application and the following documents submitted with this application:

- York Analytical Laboratories Technical Report #13K0608 (11/27/2013).
- Phoenix Environmental Laboratories Analysis Reports GBG46431 (5/27/14).
- Phoenix Environmental Laboratories Analysis Reports GBG47225 (5/30/14).
- Site maps and drawings indicating boring locations and delineation areas.

The applicant warrants that the material proposed for shipment to P Park is in fact, the same material which was tested and is represented by the sample results provided with this application. Furthermore, it is our understanding that material encountered within the scope of the 1035 Fulton Street project which does not meet P Park NJ, LLC's protocol will be sent to a separate disposal facility permitted to take the material. Clean Earth further warrants that a proper QA/QC plan will be in place during the excavation and loading of the material to ensure that only approved soils are sent to the P Park facility.

The material approved for import into P Park is identified in the provided data as:

- **Sample ID – Red WC**

The total material approval is for 1,600 tons.

P Park NJ LLC's compliance engineers, WCD Consultants reviewed all analytical data and site background information and determined the material profiled meets our current acceptance criteria for approval and placement into the facility. Based upon our review, the results and application have been accepted and given the WCD approval # PPNJ-061014-0149 and P Park has issued the project #14-288.

All deliveries **must** be scheduled in advance with Lori Ripp via email at lripp@pparknj.com .

Please contact me if you have any questions.

Sincerely,

Gary Roth
General Manager
P. Park NJ, LLC

CLEANEARTH

Faster, smarter, greener solutions...

06 May 2014

Kevin Brussee
Environmental Business Consultants
1808 Middle Country Road
Ridge, NY 11961

Re: 1035 Fulto Street
Brooklyn, NY 111238
Green/Blue Areas

Dear Mr. Brussee,

In regards to the above referenced contaminated soil, the non-hazardous material represented by analysis received, is within our acceptance parameters and is now approved for receipt of 2000 tons of soil. This material has been issued global approval number 133403 and facility approval ID is pending.

Processing of the soil will be performed under PADEP solid waste permit number 301220, issued to Clean Earth of Philadelphia.

Sincerely,

Dane M. Tanner, CHMM
Clean Earth of Philadelphia
Laboratory Director/Approval manager

Cc: AKRF, Inc.

APPENDIX J

Manifests and Scale Tickets
Clean Earth of Philadelphia

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0046663
Invoice Date:
05/20/14
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		05/30/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
133403	Soil Treatment Type IV	05/15/14	700000040712	880389	28.69	Tons	22.00	631.18
133403	Soil Treatment Type IV	05/15/14	700000040767	880390	31.58	Tons	22.00	694.76
133403	Soil Treatment Type IV	05/15/14	700000040768	880391	29.22	Tons	22.00	642.84
133403	Soil Treatment Type IV	05/15/14	700000040814	880396	28.31	Tons	22.00	622.82
133403	Soil Treatment Type IV	05/15/14	700000040818	880392	31.84	Tons	22.00	700.48
133403	Soil Treatment Type IV	05/15/14	700000040954	880393	32.38	Tons	22.00	712.36
133403	Soil Treatment Type IV	05/16/14	700000041401	874198	33.87	Tons	22.00	745.14
133403	Soil Treatment Type IV	05/16/14	700000041455	874193	32.89	Tons	22.00	723.58
133403	Soil Treatment Type IV	05/16/14	700000041691	874181	27.86	Tons	22.00	612.92
133403	Soil Treatment Type IV	05/16/14	700000041692	874180	28.36	Tons	22.00	623.92
? 133403	Soil Treatment Type IV	05/16/14	700000042489	874163	29.75	Tons	22.00	654.50
? 133403	Soil Treatment Type IV	05/16/14	700000042490	874200	28.55	Tons	22.00	628.10

391

Transferred to page 2..... 7,992.60

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions.

Invoice

Invoice Number:
PSI0046663
Invoice Date:
05/20/14
Order Number

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		05/30/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
	Transferred from page 1.....							7,992.60
? 133403	Soil Treatment Type IV	05/16/14	700000042491	874189	30.83	Tons	22.00	678.26
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
0.00	8,670.86	394.13	Subtotal:	8,670.86
			Invoice Discount:	0.00
			Tax:	0.00
			Total:	**8,670.86**

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041401

	Date	Time	Scale
In:	5/16/2014	12:11:19	Scale CE
Out:	5/16/2014	12:12:02	P.T.

	Lbs	Tns
Gross:	96320	48.16
Tare:	28580	14.29
Net:	67740	33.87

Manifest: 874198
Vehicle ID: 10SIN077
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.87	Tns

Storage Area: Area 2
Comment:

Driver: Sdvin C

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874198

133403

~~143100094 T&D~~

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT 90 #W+16587

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.29
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-268-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	33.87

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Clerk II

Signature: [illegible] Date and Time: 5.16.14 8:10

TRANSPORTER

Company: SINAI TRUCKING Phone Number: _____

Address: 274 CARSTIE ST-NY Truck # and License Plate: AR. 669B #77

Driver: MARIO [illegible] C. SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: MARIO [illegible] C. Date and Time: 5.16.14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: MARIO [illegible] C. Date and Time: 5.16.14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041455

	Date	Time	Scale
In:	5/16/2014	12:17:53	Scale CE
Out:	5/16/2014	13:09:09	Scale CE

	Lbs	Tns
Gross:	95020	47.51
Tare:	29240	14.62
Net:	65780	32.89

Manifest: 874193
Vehicle ID: 10SIN033
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.89	Tns

Storage Area: Area 2
Comment:

Driver: Daniel

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874193

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☑Tons ☐Yards	14.62
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	32.89

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consult

Signature: _____ Date and Time: 5.16.14

TRANSPORTER

Company: CINAI F 33 Phone Number: 973 337 99-10

Address: 274 OARSIDE ST Truck # and License Plate: AP587H 33

Driver: Daniel (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Daniel Date and Time: 05-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Daniel Date and Time: 05-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041691

	Date	Time	Scale
In:	5/16/2014	17:12:39	Scale CE
Out:	5/16/2014	17:15:07	P.T.

	Lbs	Tns
Gross:	85000	42.50
Tare:	29280	14.64
Net:	55720	27.86

Manifest: 874181
Vehicle ID: 10SAL053
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.86	Tns

Storage Area: Not Applicable
Comment:

Driver: B Francoeth

Facility: Clifford Jay
Jay, Clifford H 67116

CLEANEARTH

53

Manifest # 874181

133403

143100094 (a)

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	14.64
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	27.86

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consult

Signature: _____ Date and Time: 5-16-14

TRANSPORTER

Company: Galaxy Trucking Phone Number: #53-AM6807-NJ

Address: 1008 64th St. Truck # and License Plate: _____

Driver: Gustavo Betancourth SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041692

	Date	Time	Scale
In:	5/16/2014	17:16:09	Scale CE
Out:	5/16/2014	17:16:28	P.T.

	Lbs	Tns
Gross:	86340	43.17
Tare:	29620	14.81
Net:	56720	28.36

Manifest: 874180
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Generator: Fulton Hill Corner LLC
Job Name: Fulton Hill Corner LLC/1035 F
Gen Address: 936 Fulton Street
Brooklyn, NY 11238
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	28.36	Tns

Storage Area: Not Applicable
Comment:

Driver: _____

Facility: Clifford Jay
Jay, Clifford H 67116

CLEANEARTH

10

Manifest # 874180

133403

GLOBAL JOB NUMBER: _____ FACILITY APPROVAL NUMBER: ~~143100094 T&D~~ ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☑Tons ☐Yards	14.81
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	28.36

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Carpenter

Signature: [illegible] Date and Time: 5.16.14 1335

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: _____

Address: North Bergen NJ Truck # and License Plate: #10 AN381D NJ

Driver: Sherry SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000042489 4261

	Date	Time	Scale
In:	5/16/2014	10:31:40	Manual W
Out:	5/16/2014	10:32:29	P.T.

	Lbs	Tns
Gross:	89120	44.56
Tare:	29620	14.81
Net:	59500	29.75

Manifest: 874163
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.75	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

4261

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 7000000041261

	Date	Time	Scale
In:	5/16/2014	10:31:40	Scale CE
Out:	5/16/2014	10:32:29	P.T.

	Lbs	Tns
Gross:	89120	44.56
Tare:	29620	14.81
Net:	59500	29.75

Manifest: 874163
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Generator: Fulton Hill Corner LLC
Job Name: Fulton Hill Corner LLC/1035 F
Gen Address: 936 Fulton Street
Brooklyn, NY 11238
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.75	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874163

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100094 T&D ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly) AL T9 FH 6940

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☒Tons ☐Yards	14.81
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	29.25

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ku Wata Title: Consult

Signature: [signature] Date and Time: 5-16-14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AW381D NJ

Driver: Sheiny SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 72[illegible]939

Ticket: 700000042490

	Date	Time	Scale
In:	5/16/2014	00:04:32	Manual W
Out:	5/16/2014	00:05:34	P.T.
Net:		Tns 10	

Manifest: 874200
Vehicle ID: 10SIN444
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin		Quantity	Unit
Kings	Materials & Services	28.55	Tns

Storage Area: Area 2
Comment: Soil Treatment

Facility: Jay, Clifford H 67116

Driver: _____

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041391

	Date	Time	Scale
In:	5/16/2014	12:04:32	Scale CE
Out:	5/16/2014	12:05:34	P.T.

	Lbs	Tns
Gross:	86200	43.10
Tare:	29100	14.55
Net:	57100	28.55

Manifest: 874200
Vehicle ID: 10SIN444
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	28.55	Tn

Storage Area: Area 2
Comment:

Facility: Jay, Clifford H 67116

Driver:

CLEANEARTH

Manifest # 874200

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~ 143100094 T&D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 60 Fwd 16587

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.55
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	28.55

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ken Waters Title: Consult

Signature: [signature] Date and Time: 5-16-14 750

TRANSPORTER

Company: SINAP Trucking LLC Phone Number: _____

Address: 274 Grandview St Truck # and License Plate: 444 AP5734

Driver: Anyel [signature] SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 05-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 05-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000042491

	Date	Time	Scale
In:	5/16/2014	00:31:43	Manual W
Out:	5/16/2014	00:31:55	P.T.

	Lbs	Tns
Gross:	91420	45.71
Tare:	29760	14.88
Net:	61660	30.83

Manifest: 874189
Vehicle ID: 10SAL7
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.83	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

x

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041421

	Date	Time	Scale
In:	5/16/2014	12:31:43	Scale CE
Out:	5/16/2014	12:31:55	P.T.

	Lbs	Tns
Gross:	91420	45.71
Tare:	29760	14.88
Net:	61660	30.83

Manifest: 874189
Vehicle ID: 10SAL7
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.83	Tns

Storage Area: Area 2
Comment:

Driver: PENA

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874189

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100094 T&D ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acr90 nw6940

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.88
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	30.83

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Cusff

Signature: _____ Date and Time: 5-16-14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: _____

Address: 1208 64 ST NORTH BERGEN Truck # and License Plate: 7 / AL116A / 744

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 1208596 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 5-16-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 5-16-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

sRpPrfGTN.rpt

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/15/2014 through 05/15/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

5/16/2014
9:43AM
User ID: JROBERTS

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000040712	05/15/14	10SAL10	I	880389	REL514-RELIABLE NYC CONSTRUCTION INC	43.50	14.81	28.69
700000040767	05/15/14	10JHO001	I	880390	REL514-RELIABLE NYC CONSTRUCTION INC	46.35	14.77	31.58
700000040768	05/15/14	10JHO002	I	880391	REL514-RELIABLE NYC CONSTRUCTION INC	43.69	14.47	29.22
700000040814	05/15/14	10SIN444	I	880396	REL514-RELIABLE NYC CONSTRUCTION INC	42.88	14.57	28.31
700000040818	05/15/14	10SIN077	I	880392	REL514-RELIABLE NYC CONSTRUCTION INC	46.10	14.26	31.84
700000040954	05/15/14	10JEN072	I	880393	REL514-RELIABLE NYC CONSTRUCTION INC	46.71	14.33	32.38
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								182.02
6 tickets								

Report Grand Totals

182.02

6 tickets

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000040712

	Date	Time	Scale
In:	5/15/2014	10:01:08	Scale CE
Out:	5/15/2014	11:25:36	Scale CE

	Lbs	Tns
Gross:	87000	43.50
Tare:	29620	14.81
Net:	57380	28.69

Manifest: 880389
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	28.69	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

①

CLEANEARTH

Manifest # 880389

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AL98#nH6940

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton St, Brooklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	14.81
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	28.69

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz soil 0-6ft

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Tyrone Hamm Title: Proj. Mgr.

Signature: _____ Date and Time: 5/14/14

TRANSPORTER

Company: Salazar Trucking Phone Number: _____

Address: North Bergen NJ Truck # and License Plate: #10 AN 381D NJ

Driver: Sheiny SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/15/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/15/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-15-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000040767

	Date	Time	Scale
In:	5/15/2014	11:00:51	Scale CE
Out:	5/15/2014	12:09:53	Scale CE

	Lbs	Tns
Gross:	92700	46.35
Tare:	29540	14.77
Net:	63160	31.58

Manifest: 880390
Vehicle ID: 10JH0001
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.58	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

(2)

CLEANEARTH

Manifest # 880390

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

Acct# NH16386

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton St, Brooklyn	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	14.77
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	31.58

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-hazardous Soil 0-6ft

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Tyrone Hearn Title: PM

Signature: T. L Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: 5120142755282

Address: 370 HW AVE KEARNY NJ 07032 Truck # and License Plate: _____

Driver: JHONATAN (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above. CK AF881 W

Driver Signature: _____ Date and Time: 5/15/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/15/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-15-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000040768

	Date	Time	Scale
In:	5/15/2014	11:02:12	Scale CE
Out:	5/15/2014	12:11:09	Scale CE

	Lbs	Tns
Gross:	87380	43.69
Tare:	28940	14.47
Net:	58440	29.22

Manifest: 880391
Vehicle ID: 10JH0002
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.22	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

(3)

CLEANEARTH

Manifest # 880391

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acct 90 Tr# 16350

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC 1035 Fulton St, Brooklyn	TARE WEIGHT: ☑Tons ☐Yards	14.46
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	29.22 V

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-hazardous Soil 0-6ft

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Kristen Discorza Title: Proj. Mngr

Signature: [illegible] on behalf of Generator Date and Time: 5/14/14

TRANSPORTER

Company: Jhonatan Trucking Phone Number: 201 275 5282

Address: 8 John hay ave Kearny NJ Truck # and License Plate: D2 AP860W

Driver: Jhonatan Diaz SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Jhonatan Diaz Date and Time: 05-15-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05-15-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-15-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000040814

	Date	Time	Scale
In:	5/15/2014	11:52:10	Scale CE
Out:	5/15/2014	12:58:12	Scale CE

	Lbs	Tns
Gross:	85760	42.88
Tare:	29140	14.57
Net:	56620	28.31

Manifest: 880396
Vehicle ID: 10SIN444
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	28.31	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 880396

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

AL790 WU 16587

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton St, Brooklyn	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	14.57
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	28.31

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil 0-6ft

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Tyrone Hasan Title:

Signature: Tyrone Hasan Date and Time: 5/14/14

TRANSPORTER

Company: Sinai Trucking LLC Phone Number:

Address: 274 Garside St Truck # and License Plate: TK # AP5333 444

Driver: Angel Bravo (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Ant A Bravo Date and Time: 05-14-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 05-14-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-15-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000040818

	Date	Time	Scale
In:	5/15/2014	11:56:12	Scale CE
Out:	5/15/2014	13:00:50	Scale CE

	Lbs	Tns
Gross:	92200	46.10
Tare:	28520	14.26
Net:	63680	31.84

Manifest: 880392
Vehicle ID: 10SIN077
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.84	Tns

Storage Area: Area 2
Comment:

Driver: Alex Gal

Facility: Jay, Clifford H 67116

(4)

CLEANEARTH

Manifest # 880392

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT90 WA16587

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Owner LLC 1035 Fulton St, Brooklyn	TARE WEIGHT: ☐Tons ☐Yards	14.~~57~~ 26 cy
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	31.84 ~~28.31~~ cy

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil 0-6ft

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Kristen DiSenza Title: Proj. Mngr

Signature: [signature] on behalf of Generator Date and Time: 5/14/14

TRANSPORTER

Company: SINAI TRUCKING Phone Number:

Address: 274 GARSIDE ST NEWARK NJ Truck # and License Plate: 77-A76698

Driver: AARON SAGUAY (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: AARON [signature] Date and Time: 05-14-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: AARON [signature] Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-15-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000040954

	Date	Time	Scale
In:	5/15/2014	15:34:48	Scale CE
Out:	5/15/2014	15:35:22	P.T.

	Lbs	Tns
Gross:	93420	46.71
Tare:	28660	14.33
Net:	64760	32.38

Manifest: 880393
Vehicle ID: 10JEN072
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.38	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

(6)

CLEANEARTH

Manifest # 880393

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

HZ795 MH7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton St, Brooklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	14.33
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	32.383

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-hazardous Soil 0-6ft

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Tyrone Hanna Title: Mgr

Signature: Tyrone Hanna Date and Time: 5/14/14

TRANSPORTER

Company: Jencor Phone Number: 72 AP 573 W

Address: 10 Alexander Dr. Truck # and License Plate:

Driver: Juan Rodriguez SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Juan Rodriguez Date and Time: 5/15/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-15-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/16/2014 through 05/16/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

5/20/2014
8:24AM
User ID: JROBERTS

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000041401	05/16/14	10SIN077	I	874198	REL514-RELIABLE NYC CONSTRUCTION INC	48.16	14.29	33.87
700000041455	05/16/14	10SIN033	I	874193	REL514-RELIABLE NYC CONSTRUCTION INC	47.51	14.62	32.89
700000041691	05/16/14	10SAL053	I	874181	REL514-RELIABLE NYC CONSTRUCTION INC	42.50	14.64	27.86
700000041692	05/16/14	10SAL10	I	874180	REL514-RELIABLE NYC CONSTRUCTION INC	43.17	14.81	28.36
700000042489	05/16/14	10SAL10	I	874163	REL514-RELIABLE NYC CONSTRUCTION INC	44.56	14.81	29.75
700000042490	05/16/14	10SIN444	I	874200	REL514-RELIABLE NYC CONSTRUCTION INC	43.10	14.55	28.55
700000042491	05/16/14	10SAL7	I	874189	REL514-RELIABLE NYC CONSTRUCTION INC	45.71	14.88	30.83
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								212.11
7 tickets								

Report Grand Totals

212.11

7 tickets

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions.

Invoice

Invoice Number:
PSI0047095
Invoice Date:
05/29/14
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		06/08/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
133403	Soil Treatment Type IV	05/16/14	700000043247	874184	27.2	Tons	22.00	598.40
133403	Soil Treatment Type IV	05/16/14	700000043254	874185	30.9	Tons	22.00	679.80
133403	Soil Treatment Type IV	05/16/14	700000043268	874186	33.95	Tons	22.00	746.90
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
0.00	2,025.10	92.05	Subtotal:	2,025.10
			Invoice Discount:	0.00
			Tax:	0.00
			Total:	**2,025.10**

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043254

	Date	Time	Scale
In:	5/16/2014	13:19:13	Manual W
Out:	5/16/2014	13:19:22	P.T.

******** Reprinted Ticket - Edited ********

	Lbs	Tns
Gross:	90800	45.40
Tare:	29000	14.50
Net:	61800	30.90

Manifest: 874185
Vehicle ID: 10JH0002
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.90	Tns

Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Kelly, Mike 69480

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041484

	Date	Time	Scale
In:	5/16/2014	13:26:12	Scale CE
Out:	5/16/2014	13:26:35	P.T.

	Lbs	Tns
Gross:	90800	45.40
Tare:	29000	14.50
Net:	61800	30.90

Manifest: B74185
Vehicle ID: 10JH0002
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.90	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874185

133403

143100094 T&D

ZONG corrected

GLOBAL JOB NUMBER: _____ FACILITY APPROVAL NUMBER: ~~143100096 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT90 NH16380

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.50
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	30.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.16.14

TRANSPORTER

Company: Jhonatan Trucking Phone Number: 201 275 5282

Address: 8 John hay ave Kearny Truck # and License Plate: 02 AP960W

Driver: Jon Diaz SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 05-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 05-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043268

	Date	Time	Scale
In:	5/16/2014	13:19:13	Manual W
Out:	5/16/2014	13:19:22	P.T.

******** Reprinted Ticket - Edited ********

	Lbs	Tns
Gross:	97440	48.72
Tare:	29540	14.77
Net:	67900	33.95

Manifest: 874186
Vehicle ID: 10JH0001
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.95	Tns

Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Kelly, Mike 69480

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041468

	Date	Time	Scale
In:	5/16/2014	13:19:13	Scale CE
Out:	5/16/2014	13:19:22	P.T.

	Lbs	Tns
Gross:	97440	48.72
Tare:	29540	14.77
Net:	67900	33.95

Manifest: 874186
Vehicle ID: 10JH0001
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.95	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874186

133403

143100094 T&D RONG

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D Corrected NSM

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT95# WH16380

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.77
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	33.95

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: K Waters Title: Consult

Signature: _____ Date and Time: 5.16.17 1007

TRANSPORTER

Company: JHONATAN Phone Number: 201-275282

Address: 3 JOHN HAY AVE KEARNY NJ Truck # and License Plate: 01 AF361 W

Driver: ALFONSO SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 05-16-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05-16-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 05-16-17

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043247

	Date	Time	Scale
In:	5/16/2014	13:40:23	Manual W
Out:	5/16/2014	13:50:14	Manual W

******** Reprinted Ticket - Edited ********

	Lbs	Tns
Gross:	84100	42.05
Tare:	29700	14.85
Net:	54400	27.20

Manifest: 874184
Vehicle ID: 10ECA003
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION
Facility Approval#: 143100095
Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.20	Tns

Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Kelly, Mike 69480

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041518

	Date	Time	Scale
In:	5/16/2014	13:40:23	Scale CE
Out:	5/16/2014	13:50:14	Scale CE

	Lbs	Tns
Gross:	84100	42.05
Tare:	29700	14.85
Net:	54400	27.20

Manifest: 874184
Vehicle ID: 10ECA003
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.20	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874184

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~ Row 6 correct MSA

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

NET 9.4 NH 16380

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.85
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	27.20

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: C Waterell Title: Consult

Signature: _____ Date and Time: 5-16-14 1030

TRANSPORTER

Company: E CARE Phone Number: E CARE 2012758

Address: 8 Hoy Hoy Ave Kearny Truck # and License Plate: AP 414X #03

Driver: HECTOR SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/20/2014 through 05/20/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000042857	05/20/14	10SAL7	I	874179	REL514-RELIABLE NYC CONSTRUCTION INC	42.67	14.88	27.79
700000042880	05/20/14	10SAL053	I	874178	REL514-RELIABLE NYC CONSTRUCTION INC	46.96	14.64	32.32
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								60.11
2 tickets								

Report Grand Totals

	60.11

2 tickets

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0046662
Invoice Date:
05/20/14
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		05/30/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
133403	Soil Treatment Type IV	05/16/14	700000041288	874203	27.91	Tons	49.00	1,367.59
133403	Soil Treatment Type IV	05/16/14	700000041292	874204	29.34	Tons	49.00	1,437.66
133403	Soil Treatment Type IV	05/16/14	700000041304	874202	28.73	Tons	49.00	1,407.77
133403	Soil Treatment Type IV	05/16/14	700000041323	874201	29.83	Tons	49.00	1,461.67
133403	Soil Treatment Type IV	05/16/14	700000041332	874199	31.54	Tons	49.00	1,545.46
133403	Soil Treatment Type IV	05/16/14	700000041339	874197	32.68	Tons	49.00	1,601.32
133403	Soil Treatment Type IV	05/16/14	700000041342	874196	31.73	Tons	49.00	1,554.77
133403	Soil Treatment Type IV	05/16/14	700000041351	874195	33.75	Tons	49.00	1,653.75
133403	Soil Treatment Type IV	05/16/14	700000041373	874191	31.98	Tons	49.00	1,567.02
133403	Soil Treatment Type IV	05/16/14	700000041384	874192	32.9	Tons	49.00	1,612.10
133403	Soil Treatment Type IV	05/16/14	700000041395	874194	31.31	Tons	49.00	1,534.19
133403	Soil Treatment Type IV	05/16/14	700000041408	874190	33.07	Tons	49.00	1,620.43

Transferred to page 2..... 18,363.73

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0046662
Invoice Date:
05/20/14
Order Number

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		05/30/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
Transferred from page 1.....								18,363.73
133403	Soil Treatment Type IV	05/16/14	700000041423	874188	31.08	Tons	49.00	1,522.92
133403	Soil Treatment Type IV	05/16/14	700000041444	874187	31.57	Tons	49.00	1,546.93
133403	Soil Treatment Type IV	05/16/14	700000041468 ?	874186	33.95	Tons	49.00	1,663.55
133403	Soil Treatment Type IV	05/16/14	700000041484	874185	30.9	Tons	49.00	1,514.10
133403	Soil Treatment Type IV	05/16/14	700000041510	874183	30.58	Tons	49.00	1,498.42
133403	Soil Treatment Type IV	05/16/14	700000041518	874184	27.2	Tons	49.00	1,332.80
133403	Soil Treatment Type IV	05/16/14	700000041537	874182	27.29	Tons	49.00	1,337.21
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
28,779.66	0.00	587.34	Subtotal:	28,779.66
			Invoice Discount:	0.00
			Total Sales Tax:	2,554.19
			Total:	**31,333.85**

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041288

	Date	Time	Scale
In:	5/16/2014	10:53:05	Scale CE
Out:	5/16/2014	10:53:56	P.T.

	Lbs	Tns
Gross:	86460	43.23
Tare:	30640	15.32
Net:	55820	27.91

Manifest: 874203
Vehicle ID: 10JC011
Act 90 Decal: WH11189
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.91	Tns

Storage Area: Area 2
Comment:

Driver: SERGIO RIBEIRO

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874203

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT 95 MH 11189

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	15.32
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-268-0819	NET WEIGHT: ☐Tons ☐Yards	27.91
Ty Haamid		

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Kwate Title: Consult

Signature: _____ Date and Time: 5.16.14 7:15

TRANSPORTER

Company: JC TRANSPORT Phone Number: _____

Address: 10 CAMPBELL AVE BELLEVILLE Truck # and License Plate: # 11 NP 395N

Driver: SERGIO RIBEIRO SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 05.16.14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05.16.14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 05.16.14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041292

	Date	Time	Scale
In:	5/16/2014	10:55:48	Scale CE
Out:	5/16/2014	10:56:24	P.T.

	Lbs	Tns
Gross:	88320	44.16
Tare:	29640	14.82
Net:	58680	29.34

Manifest: 874204
Vehicle ID: 10JEN071
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.34	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874204

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~ KW

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acct # WH 7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.82
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	29.34

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: K Walsh Title: Consultant

Signature: [signature] Date and Time: 5.16.14 710

TRANSPORTER

Company: Jencor Phone Number: AN509 W (71)

Address: Randolph NJ Truck # and License Plate: _____

Driver: Andres Andrew SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 05/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041304

	Date	Time	Scale
In:	5/16/2014	11:04:34	Scale CE
Out:	5/16/2014	11:05:29	P.T.

	Lbs	Tns
Gross:	88560	44.28
Tare:	31100	15.55
Net:	57460	28.73

Manifest: 874202
Vehicle ID: 10JC012
Act 90 Decal: WH11189
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	28.73	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clafford H 67116

CLEANEARTH

Manifest # 874202

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095-D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AC790 # M-11189

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☑Tons ☐Yards	15.55
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	28.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consultant

Signature: _____ Date and Time: 5.16.14 730

TRANSPORTER

Company: JC TRANSPORT Phone Number: JC # 12

Address: Bellville NJ Truck # and License Plate: AR 3455

Driver: Juan Ibarra SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-16-4

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-16-4

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041323

	Date	Time	Scale
In:	5/16/2014	11:19:03	Scale CE
Out:	5/16/2014	11:19:45	P.T.

Manifest: 874201
Vehicle ID: 10JC009
Act 90 Decal: WH11189
Customer: RELIABLE NYC CONSTRUCTION

	Lbs	Tns
Gross:	91240	45.62
Tare:	31580	15.79
Net:	59660	29.83

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.83	Tns

Storage Area: Area 2
Comment:

Driver: Salgado

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874201

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACTPS AH11189

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	15.79
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	29.83

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: [illegible]

Signature: [illegible] Date and Time: 5.16.14 7:10

TRANSPORTER

Company: JC TRANSV Phone Number: _____

Address: 10 CAMPBELL AVE Truck # and License Plate: #9 AP153H

Driver: SALGADO SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Salgado Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Salgado Date and Time: 5/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041332

	Date	Time	Scale
In:	5/16/2014	11:25:12	Scale CE
Out:	5/16/2014	11:25:50	P.T.

	Lbs	Tns
Gross:	92940	46.47
Tare:	29860	14.93
Net:	63080	31.54

Manifest: 874199
Vehicle ID: 10JC010
Act 90 Decal: WH11189
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.54	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874199

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100094 T&D ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 90 TW + 11189

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☑Tons ☐Yards	14.93
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	31.54

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consult

Signature: _____ Date and Time: 5-16-14 800

TRANSPORTER

Company: JC TRANSPORT Phone Number: _____

Address: 10 CAMPBELL AV, BELLEVILLE NJ Truck # and License Plate: 10 AP124L

Driver: SOUSA (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 05-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041339

	Date	Time	Scale
In:	5/16/2014	11:28:26	Scale CE
Out:	5/16/2014	11:28:57	P.T.

	Lbs	Tns
Gross:	94780	47.39
Tare:	29420	14.71
Net:	65360	32.68

Manifest: 874197
Vehicle ID: 10JEN070
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.68	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874197

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Act 95th 7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.71
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	32.68

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Tu Waters Title: Consult

Signature: [signature] Date and Time: 5.16.14 820

TRANSPORTER

Company: GNCAR #70 Phone Number:

Address: 10 Alexander Ave Truck # and License Plate: AP 552 n #70

Driver: Aldobien Hernandez SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041342

	Date	Time	Scale
In:	5/16/2014	11:30:01	Scale CE
Out:	5/16/2014	11:32:02	P.T.

	Lbs	Tns
Gross:	94420	47.21
Tare:	30960	15.48
Net:	63460	31.73

Manifest: 874196
Vehicle ID: 10CF08
Act 90 Decal: WH6475
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.73	Tns

Storage Area: Area 2
Comment:

Driver: L Mitty D

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874196

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143400095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AET 95 TH 6475

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	15.48
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	31.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: L Watt Title: Con SUT

Signature: _____ Date and Time: 5-16-14

TRANSPORTER

Company: K F BROTHERS Phone Number: _____

Address: _____ Truck # and License Plate: F8 - AN 951 K

Driver: MILTON QUINTERO SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: J Milton Q Date and Time: 5-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: J Milton Q Date and Time: 5-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041351

	Date	Time	Scale
In:	5/16/2014	11:38:33	Scale CE
Out:	5/16/2014	11:39:12	P.T.

	Lbs	Tns
Gross:	95540	47.77
Tare:	28040	14.02
Net:	67500	33.75

Manifest: 874195
Vehicle ID: 10JEN069
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.75	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874195

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street Brooklyn NY 11238	TARE WEIGHT: ☑Tons ☐Yards	14.02
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	33.75

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: K Waite Title: Consult

Signature: _____ Date and Time: 5.16.14 830

TRANSPORTER

Company: Jencar Phone Number: 973 628 1801

Address: 10 Alexander Dr. Truck # and License Plate: 69 AP885D NJ

Driver: Sergio Ruiz SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041373

	Date	Time	Scale
In:	5/16/2014	11:52:40	Scale CE
Out:	5/16/2014	11:53:25	P.T.

	Lbs	Tns
Gross:	93200	46.60
Tare:	29240	14.62
Net:	63960	31.98

Manifest: 874191
Vehicle ID: 10JEN068
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.98	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874191

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100094 T&D ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 90 Tn WH7990

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☑Tons ☐Yards	14.62
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	31.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Corp

Signature: [signature] Date and Time: 5.16.14

TRANSPORTER

Company: JENCAR TRUCKING Phone Number:

Address: 10 Alexander DR. Randolph NJ. Truck # and License Plate: AP 812A. 7 68

Driver: [signature] (Type or Print Clearly) SW Haulers Permit #: WH7990 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041384

	Date	Time	Scale
In:	5/16/2014	11:59:51	Scale CE
Out:	5/16/2014	12:00:46	P.T.

	Lbs	Tns
Gross:	94160	47.08
Tare:	28360	14.18
Net:	65800	32.90

Manifest: 874192
Vehicle ID: 10MAN005
Act 90 Decal: WH7408
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Generator: Fulton Hill Corner LLC
Job Name: Fulton Hill Corner LLC/1035 F
Gen Address: 936 Fulton Street
Brooklyn, NY 11238
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.90	Tns

Storage Area: Area 2
Comment:

Driver: Schw

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874192

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

HLT90 # 7408

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.18
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	32.90

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Kurt Title: Consult

Signature: _____ Date and Time: 5.16.14

TRANSPORTER

Company: MANOLOS Phone Number: _____

Address: Belleville NJ. Truck # and License Plate: 05 AP414M

Driver: SELVIN CARCAMO SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Selvin C Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Selvin C Date and Time: 5/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041395

	Date	Time	Scale
In:	5/16/2014	12:06:46	Scale CE
Out:	5/16/2014	12:08:57	P.T.

	Lbs	Tns
Gross:	93160	46.58
Tare:	30540	15.27
Net:	62620	31.31

Manifest: 874194
Vehicle ID: 10MAN004
Act 90 Decal: WH7408
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.31	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874194

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100005 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Allegiant 07408

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	15.27
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-286-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	31.31

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5·16·14

TRANSPORTER

Company: MANOLO TRUCKING Phone Number: _____

Address: _____ Truck # and License Plate: #4 AR498D

Driver: RAMON JOVEL (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041408

	Date	Time	Scale
In:	5/16/2014	12:20:28	Scale CE
Out:	5/16/2014	12:20:43	P.T.

	Lbs	Tns
Gross:	94800	47.40
Tare:	28660	14.33
Net:	66140	33.07

Manifest: 874190
Vehicle ID: 10JEN072
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.07	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874190

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acct# WH7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☒Tons ☐Yards	14.33
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	33.07

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.16.14

TRANSPORTER

Company: Jencar Phone Number:

Address: 10 alexander dr. Randolph Truck # and License Plate: #72 AP 573W

Driver: Juan C Rodriguez SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Juan C Rodriguez Date and Time: 5-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041423

	Date	Time	Scale
In:	5/16/2014	12:34:56	Scale CE
Out:	5/16/2014	12:35:20	Scale CE

******** Reprinted Ticket - Edited ********

	Lbs	Tns
Gross:	92600	46.30
Tare:	30440	15.22
Net:	62160	31.08

Manifest: 874188
Vehicle ID: 10CF10
Act 90 Decal: WH6475
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.08	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874188

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100094 T&D ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AT 65.Fh126475

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	15.28
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	31.08

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non.DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.16.14 939

TRANSPORTER

Company: CF BROS Phone Number: _____

Address: 69 W Second ST Truck # and License Plate: CFLO AL312C

Driver: Carlos Montes (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041444

	Date	Time	Scale
In:	5/16/2014	12:53:11	Scale CE
Out:	5/16/2014	12:53:20	P.T.

	Lbs	Tns
Gross:	91920	45.96
Tare:	28780	14.39
Net:	63140	31.57

Manifest: 874187
Vehicle ID: 10CF071
Act 90 Decal: WH6475
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.57	Tns

Storage Area: Area 2
Comment:

Driver: Flavio Martinez

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874187

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095 D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Ar 78 WK6475

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.39
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	31.57

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: K Wate Title: Consult

Signature: _____ Date and Time: 5/16/14

TRANSPORTER

Company: CF Bros Phone Number: _____

Address: 69 W. Second St Bound Brook Truck # and License Plate: CF 71 AP7335

Driver: Flavio Martinez SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Flavio Martinez Date and Time: 5-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Flavio Martinez Date and Time: 5-16-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041510

	Date	Time	Scale
In:	5/16/2014	13:43:06	Scale CE
Out:	5/16/2014	13:44:18	P.T.

	Lbs	Tns
Gross:	89780	44.89
Tare:	28620	14.31
Net:	61160	30.58

Manifest: 874183
Vehicle ID: 10MAN002
Act 90 Decal: WH7408
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.58	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874183

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

HET90 # HH7408

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.31
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	30.58

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ty Haamid Title: Consult

Signature: _____ Date and Time: 5-16-14 10:40

TRANSPORTER

Company: MANOLOS 02 Phone Number: _____

Address: 58 Morris Pl Belleville. Truck # and License Plate: 02 AK 597 T

Driver: GONZALO FLORES SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/16/14 11:00 AM.

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/16/14 1:40 PM.

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-16-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000041537

	Date	Time	Scale
In:	5/16/2014	14:03:56	Scale CE
Out:	5/16/2014	14:04:54	P.T.

	Lbs	Tns
Gross:	83280	41.64
Tare:	28700	14.35
Net:	54580	27.29

Manifest: 874182
Vehicle ID: 10MAN001
Act 90 Decal: WH7408
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100094
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.29	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874182

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100095-D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT 90# nH 7408

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.35
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	27.29

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 5.16.14 1050

TRANSPORTER

Company: MANOLOS Phone Number: _____

Address: 58 MOORE PL BELLEVILLE Truck # and License Plate: #01 AN421H NJ

Driver: Alfonso Insuasti (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5/16/14

GENERATOR

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions.

Invoice

Invoice Number:
PSI0047045
Invoice Date:
05/29/14
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		06/08/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
133403	Soil Treatment Type IV	05/20/14	700000042857	874179	27.79 0	Tons	22.00	611.38
133403	Soil Treatment Type IV	05/20/14	700000042880	874178	32.32 0	Tons	22.00	711.04
133403	Soil Treatment Type IV	05/21/14	700000043025	874177	31.87 0	Tons	22.00	701.14
133403	Soil Treatment Type IV	05/21/14	700000043173	874167	26.43 0	Tons	22.00	581.46
133403	Soil Treatment Type IV	05/21/14	700000043179	874166	34.52 0	Tons	22.00	759.44
133403	Soil Treatment Type IV	05/21/14	700000043226	874165	31.05 0	Tons	22.00	683.10
133403	Soil Treatment Type IV	05/22/14	700000043823	874176	30 0	Tons	22.00	660.00
133403	Soil Treatment Type IV	05/22/14	700000044063	874175	34.5 0	Tons	22.00	759.00
133403	Soil Treatment Type IV	05/23/14	700000044118	874169	33.75 0	Tons	22.00	742.50
133403	Soil Treatment Type IV	05/23/14	700000044333	874170	33.12 0	Tons	22.00	728.64
133403	Soil Treatment Type IV	05/23/14	700000044339	874173	30.42 0	Tons	22.00	669.24
133403	Soil Treatment Type IV	05/23/14	700000044380	874172	33.37 0	Tons	22.00	734.14

Transferred to page 2..... 8,341.08

Match to Royal Flush IV# 240

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0047045
Invoice Date:
05/29/14
Order Number

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		06/08/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
Transferred from page 1.....								8,341.08
133403	Soil Treatment Type IV	05/23/14	700000044384	874171	32.11	Tons	22.00	706.42
133403	Soil Treatment Type IV	05/23/14	700000044408	874168	30.4	Tons	22.00	668.80
133403	Soil Treatment Type IV	05/23/14	700000044416	874174	27.09	Tons	22.00	595.98
133403	Soil Treatment Type IV	05/23/14	700000044533	900902	28.39	Tons	22.00	624.58
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
0.00	10,936.86	497.13	Subtotal:	10,936.86
			Invoice Discount:	0.00
			Tax:	0.00
			Total:	**10,936.86**

Glean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000042857

	Date	Time	Scale
In:	5/20/2014	12:52:27	Scale CE
Out:	5/20/2014	12:55:30	P.T.

	Lbs	Tns
Gross:	85340	42.67
Tare:	29760	14.88
Net:	55580	27.79

Manifest: 874179
Vehicle ID: 10SAL7
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.79	Tns

Storage Area: Area 2
Comment:

Driver: PEÑA

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874179

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100094-T&D~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acct 95th 6940

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.88
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	27.79

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 5.20.14 1000

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: TRUCK 7 2976940

Address: 1208 64 ST NORTH Truck # and License Plate: AL 46A / 20/8596

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 5-20-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 5-20-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-20-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000042880

	Date	Time	Scale
In:	5/20/2014	13:23:39	Scale CE
Out:	5/20/2014	13:24:17	P.T.

	Lbs	Tns
Gross:	93920	46.96
Tare:	29280	14.64
Net:	64640	32.32

Manifest: 874178
Vehicle ID: 10SAL053
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.32	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874178

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100094 T&D~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AKT98 WH6940

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.64
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.32
Ty Haamid		

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.20.14 1010

TRANSPORTER

Company: Hazzal Trucking Phone Number: _____

Address: 1204 6th St. NS Truck # and License Plate: S3-AM6807-NS

Driver: Guido Betancourt SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5/20/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/20/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-20-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/21/2014 through 05/21/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000043025	05/21/14	10SAL10	I	874177	REL514-RELIABLE NYC CONSTRUCTION INC	46.68	14.81	31.87
700000043173	05/21/14	10ECA003	I	874167	REL514-RELIABLE NYC CONSTRUCTION INC	41.31	14.88	26.43
700000043179	05/21/14	10JHO001	I	874166	REL514-RELIABLE NYC CONSTRUCTION INC	49.29	14.77	34.52
700000043226	05/21/14	10SIN033	I	874165	REL514-RELIABLE NYC CONSTRUCTION INC	45.67	14.62	31.05
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								123.87
4 tickets								

Report Grand Totals

	123.87
4 tickets	

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043025

	Date	Time	Scale
In:	5/21/2014	07:11:19	Scale CE
Out:	5/21/2014	07:12:02	P.T.

	Lbs	Tns
Gross:	93360	46.68
Tare:	29620	14.81
Net:	63740	31.87

Manifest: 874177
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.87	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874177

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AZT9 5NH 6940

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.81
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	31.87

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5-20-14

TRANSPORTER

Company: Salazar Trucking. Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN38TD NJ

Driver: Sherry SW Haulers Permit #: N

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5/20/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/21/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-21-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043173

	Date	Time	Scale
In:	5/21/2014	10:16:54	Scale CE
Out:	5/21/2014	10:17:04	P.T.

Manifest: 874167
Vehicle ID: 10ECA003
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

	Lbs	Tns
Gross:	82620	41.31
Tare:	29760	14.88
Net:	52860	26.43

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	26.43	Tns

Storage Area: Area 2
Comment:

Driver: Hector.

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874167

GLOBAL JOB NUMBER: 133403

FACILITY APPROVAL NUMBER: 143100094 T&D 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acct 90 FMH16380

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	14.88
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	26.43

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consultant

Signature: [illegible] Date and Time: 5-21-14 730

TRANSPORTER

Company: E CARE #03 Phone Number: 2014377106

Address: 8 Hoh Hoy AV Truck # and License Plate: AP 414X

Driver: HECTOR. SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5-21-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5-21-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-21-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043179

	Date	Time	Scale
In:	5/21/2014	10:36:37	Scale CE
Out:	5/21/2014	10:36:56	P.T.

	Lbs	Tns
Gross:	98580	49.29
Tare:	29540	14.77
Net:	69040	34.52

Manifest: 874166
Vehicle ID: 10JH0001
Act 90 Decal: WH16380
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	34.52	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874166

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.77
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	34.52

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consult

Signature: _____ Date and Time: 5.21.14 720

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/21/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/21/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5/21/14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043226

	Date	Time	Scale
In:	5/21/2014	11:17:07	Scale CE
Out:	5/21/2014	11:17:43	P.T.

	Lbs	Tns
Gross:	91340	45.67
Tare:	29240	14.62
Net:	62100	31.05

Manifest: 874165
Vehicle ID: 10SIN033
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.05	Tns

Storage Area: Area 2
Comment:

Driver: Daniel

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874165

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100094-T&D 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 95 WH 16587

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.62
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	31.05

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Kristy Title: Consult

Signature: _____ Date and Time: 5.21.14 715

TRANSPORTER

Company: SINAI Phone Number: 973 337 9921

Address: 271 CARSIDE ST Truck # and License Plate: AP 587N

Driver: Daniel (Type or Print Clearly) SW Haulers Permit #: 33 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Daniel Date and Time: 05-21-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Daniel Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-21-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/22/2014 through 05/22/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000043823	05/22/14	10SAL10	I	874176	REL514-RELIABLE NYC CONSTRUCTION INC	44.81	14.81	30.00
700000044063	05/22/14	10SAL053	I	874175	REL514-RELIABLE NYC CONSTRUCTION INC	49.14	14.64	34.50
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								64.50
2 tickets								

Report Grand Totals

	64.50

2 tickets

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000043823

	Date	Time	Scale
In:	5/22/2014	10:32:05	Scale CE
Out:	5/22/2014	10:32:25	P.T.

	Lbs	Tns
Gross:	89620	44.81
Tare:	29620	14.81
Net:	60000	30.00

Manifest: 874176
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.00	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

(1)

Manifest # 874176

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100094 TCS~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 9 5FW1+6940

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.81
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	30.00

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 5.22.14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: _____

Address: North Bergen Truck # and License Plate: #10 KN 381D NJ

Driver: Sheiny SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/22/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/22/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-22-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044063

	Date	Time	Scale
In:	5/22/2014	15:22:05	Scale CE
Out:	5/22/2014	15:22:59	P.T.

	Lbs	Tns
Gross:	98280	49.14
Tare:	29280	14.64
Net:	69000	34.50

Manifest: 874175
Vehicle ID: 10SAL053
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	34.50	Tns

Storage Area: Area 2
Comment:

Driver: B Lincoln

Facility: Jay, Clifford H 67116

CLEANEARTH

(2)

Manifest # 874175

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AETT90TH46940

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.64
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	34.50

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ken Waters Title: Consultant

Signature: _____ Date and Time: 5-20-14

TRANSPORTER

Company: ZALAZAR TRUCKING Phone Number: _____

Address: 1203-61ST. N BERGEN NJ Truck # and License Plate: 53 - A11680 T-NJ

Driver: R. EDWARDS SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: R. EDWARDS Date and Time: 5/22/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: R. EDWARDS Date and Time: 5/22/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-22-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/23/2014 through 05/23/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000044118	05/23/14	10SAL7	I	874169	REL514-RELIABLE NYC CONSTRUCTION INC	48.63	14.88	33.75
700000044333	05/23/14	10JEN069	I	874170	REL514-RELIABLE NYC CONSTRUCTION INC	47.14	14.02	33.12
700000044339	05/23/14	10SAL10	I	874173	REL514-RELIABLE NYC CONSTRUCTION INC	45.23	14.81	30.42
700000044380	05/23/14	10JEN068	I	874172	REL514-RELIABLE NYC CONSTRUCTION INC	47.99	14.62	33.37
700000044384	05/23/14	10JEN070	I	874171	REL514-RELIABLE NYC CONSTRUCTION INC	46.82	14.71	32.11
700000044408	05/23/14	10SAL053	I	874168	REL514-RELIABLE NYC CONSTRUCTION INC	45.04	14.64	30.40
700000044416	05/23/14	10JSJ107	I	874174	REL514-RELIABLE NYC CONSTRUCTION INC	40.32	13.23	27.09
700000044533	05/23/14	10SAL7	I	900902	REL514-RELIABLE NYC CONSTRUCTION INC	43.27	14.88	28.39
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								248.65
8 tickets								

Report Grand Totals

248.65

8 tickets

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044118

	Date	Time	Scale
In:	5/23/2014	07:04:47	Scale CE
Out:	5/23/2014	07:05:35	P.T.

******** Reprinted Ticket ********

	Lbs	Tns
Gross:	97260	48.63
Tare:	29760	14.88
Net:	67500	33.75

Manifest: 874169
Vehicle ID: 10SAL7
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.75	Tns

Storage Area: Area 2
Comment:

Driver: PENA

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 874169

133403

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100094 T&D~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 60 NH 6940

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.38
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	33.75

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Oen Title: Consultant

Signature: [signature] Date and Time: 5-22-14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: 2976940

Address: 1208 64 st NORTH BERGEN Truck # and License Plate: 7 AL116A

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 1208596 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 5-23-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 5-23-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044339

	Date	Time	Scale
In:	5/23/2014	10:59:04	Scale CE
Out:	5/23/2014	10:59:56	P.T.

	Lbs	Tns
Gross:	90460	45.23
Tare:	29620	14.81
Net:	60840	30.42

Manifest: 874173
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.42	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874173

133403 (3)

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** ~~143100081 T&D~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

Act 98 # 6940

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.81
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	30.42

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: [signature] Date and Time: 5-23-14

TRANSPORTER

Company: Salazar Trucking Phone Number:

Address: North Bergen Truck # and License Plate: #10 AN381DN

Driver: Sherney SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/23/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/23/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044416

	Date	Time	Scale
In:	5/23/2014	10:57:22	Scale CE
Out:	5/23/2014	12:02:44	Scale CE

	Lbs	Tns
Gross:	80640	40.32
Tare:	26460	13.23
Net:	54180	27.09

Manifest: 874174
Vehicle ID: 10J5J107
Act 90 Decal: WH16265
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	27.09	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

(2)

Manifest # 874174

133403

~~143100094 T&D~~

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Acep WT 16265

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☑Tons ☐Yards	13.23
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	27.09

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: _____ Date and Time: 5-23-14 7:25am

TRANSPORTER

Company: JSJ TRANSPORT Phone Number: N/A

Address: 177 MAIN St MADISON Truck # and License Plate: AP7530. #72

Driver: JULIAN MORALES SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-23-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-23-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044408

	Date	Time	Scale
In:	5/23/2014	11:56:31	Scale CE
Out:	5/23/2014	11:57:04	P.T.

	Lbs	Tns
Gross:	90080	45.04
Tare:	29280	14.64
Net:	60800	30.40

Manifest: 874168
Vehicle ID: 10SAL053
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.40	Tns

Storage Area: Area 2
Comment:

Driver: R Fincourt

Facility: Jay, Clifford H 67116

CLEANEARTH

(6)

Manifest # 874168

133403

~~143400001 T&D~~

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT 9: Th+69640

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.64
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	30.40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: [signature] Date and Time: 5-23-2014

TRANSPORTER

Company: CALAZAR Trucking Phone Number:

Address: 1208-64th St Truck # and License Plate: A91680 T-NJ-57

Driver: B Francourth SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: B Francourth Date and Time:

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: B Francourth Date and Time: 5/23/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044384

	Date	Time	Scale
In:	5/23/2014	11:37:43	Scale CE
Out:	5/23/2014	11:38:09	P.T.

	Lbs	Tns
Gross:	93640	46.82
Tare:	29420	14.71
Net:	64220	32.11

Manifest: 874171
Vehicle ID: 10JEN070
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Generator: Fulton Hill Corner LLC
Job Name: Fulton Hill Corner LLC/1035 F
Gen Address: 936 Fulton Street
Brooklyn, NY 11238
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.11	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874171

GLOBAL JOB NUMBER: 133403

FACILITY APPROVAL NUMBER: ~~143100095D~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT 95th 7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.71
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	32.11

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: Date and Time: 5-23-2014

TRANSPORTER

Company: JENCAR. Phone Number:

Address: 10 Alexander dr. Truck # and License Plate: AP 552 R

Driver: Aldbien Hernandez SW Haulers Permit #: # 70

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-23-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-23-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044533

	Date	Time	Scale
In:	5/23/2014	14:28:55	Scale CE
Out:	5/23/2014	14:29:34	P.T.

	Lbs	Tns
Gross:	86540	43.27
Tare:	29760	14.88
Net:	56780	28.39

Manifest: 900902
Vehicle ID: 10SAL7
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	28.39	Tns

Storage Area: Area 2
Comment:

Driver: Pena

Facility: Jay, Clifford H 67116

CLEANEARTH

(9)

Manifest # 900902

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT90 Hit 6940

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton st. Brooklyn 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	14.88
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	28.39

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated / RCRA Non-hazardous Materials

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Dev Title: Consultant

Signature: [signature] Date and Time: 5-23-2014

TRANSPORTER

Company: SALAZAR Trucking Phone Number: 1208596

Address: 1208 64 St NORTH Bergen Truck # and License Plate: 7 / AL116A

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 2976940 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 5-23-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 5-23-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044333

	Date	Time	Scale
In:	5/23/2014	10:53:29	Scale CE
Out:	5/23/2014	10:54:46	P.T.

	Lbs	Tns
Gross:	94280	47.14
Tare:	28040	14.02
Net:	66240	33.12

Manifest: 874170
Vehicle ID: 10JEN069
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.12	Tns

Storage Area: Area
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874170

133403

GLOBAL JOB NUMBER: _____ FACILITY APPROVAL NUMBER: 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.02
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	33.12

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: _____ Date and Time: 5-23-2014 7:20am

TRANSPORTER

Company: Jencar Phone Number: 9738764195

Address: 10 Alexander Dr. Truck # and License Plate: 69 AP885 D.NJ

Driver: Sergio Rendon SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 70000044380

	Date	Time	Scale
In:	5/23/2014	11:34:05	Scale CE
Out:	5/23/2014	11:35:02	P.T.

	Lbs	Tns
Gross:	95980	47.99
Tare:	29240	14.62
Net:	66740	33.37

Manifest: 874172
Vehicle ID: 10JEN068
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.37	Tns

Storage Area: Area 2
Comment:

Driver:

Facility: Joe Schmitt
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874172

(4)

133403

GLOBAL JOB NUMBER: _____ FACILITY APPROVAL NUMBER: ~~143100091 D~~ 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT90 TH 7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.62
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-268-0819 Ty Haamid	NET WEIGHT: ☑Tons ☐Yards	33.37

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: [signature] Date and Time: 5-23-14

TRANSPORTER

Company: JENCAR TRUCKING #68 Phone Number: _____

Address: 10 ALEXANDER DR. RANDOLPH NJ Truck # and License Plate: AP812A #68

Driver: Juri [illegible] SW Haulers Permit #: WH 7990

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/23/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/23/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-23-14

GENERATOR

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions.

Invoice

Invoice Number:
PSI0047357
Invoice Date:
05/31/14
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		06/10/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
133403	Soil Treatment Type IV	05/27/14	700000044797	900900	22.97	Tons	22.00	505.34
133403	Soil Treatment Type IV	05/27/14	700000044861	900901	26.17	Tons	22.00	575.74
133403	Soil Treatment Type IV	05/27/14	700000044975	900905	32.92	Tons	22.00	724.24
133403	Soil Treatment Type IV	05/27/14	700000044995	900906	33.53	Tons	22.00	737.66
133403	Soil Treatment Type IV	05/27/14	700000045041	900907	34.24	Tons	22.00	753.28
133403	Soil Treatment Type IV	05/27/14	700000045051	900910	31.96	Tons	22.00	703.12
133403	Soil Treatment Type IV	05/27/14	700000045057	900908	33.63	Tons	22.00	739.86
133403	Soil Treatment Type IV	05/27/14	700000045061	900909	33.63	Tons	22.00	739.86
133403	Soil Treatment Type IV	05/27/14	700000045077	900911	33.32	Tons	22.00	733.04
133403	Soil Treatment Type IV	05/28/14	700000045591	900912	33.71	Tons	22.00	741.62
133403	Soil Treatment Type IV	05/28/14	700000045596	900913	29.21	Tons	22.00	642.62
133403	Soil Treatment Type IV	05/28/14	700000046007	900914	30.73	Tons	22.00	676.06

Transferred to page 2..... 8,272.44

Match to Royal Flush I/# 243

Clean Earth of Philadelphia, LLC
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions.

Invoice

Invoice Number:
PSI0047357
Invoice Date:
05/31/14
Order Number

Page:
2

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		06/10/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
Transferred from page 1.....								8,272.44
133403	Soil Treatment Type IV	05/28/14	700000046009 ✓	900915	37.25	Tons	22.00	819.50
133403	Soil Treatment Type IV	05/29/14	700000046086 ✓	874206	31.07	Tons	22.00	683.54
133403	Soil Treatment Type IV	05/30/14	700000047013 ✓	826723	29.65	Tons	22.00	652.30
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
0.00	10,427.78	473.99	Subtotal:	10,427.78
			Invoice Discount:	0.00
			Tax:	0.00
			Total:	**10,427.78**

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/27/2014 through 05/27/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000044797	05/27/14	10MAP008	I	900900	REL514-RELIABLE NYC CONSTRUCTION INC	36.95	13.98	22.97
700000044861	05/27/14	10MAP003	I	900901	REL514-RELIABLE NYC CONSTRUCTION INC	39.39	13.22	26.17
700000044975	05/27/14	10JEN072	I	900905	REL514-RELIABLE NYC CONSTRUCTION INC	47.25	14.33	32.92
700000044995	05/27/14	10JEN069	I	900906	REL514-RELIABLE NYC CONSTRUCTION INC	47.55	14.02	33.53
700000045041	05/27/14	10JEN070	I	900907	REL514-RELIABLE NYC CONSTRUCTION INC	48.95	14.71	34.24
700000045051	05/27/14	10SAL10	I	900910	REL514-RELIABLE NYC CONSTRUCTION INC	46.77	14.81	31.96
700000045057	05/27/14	10SAL7	I	900908	REL514-RELIABLE NYC CONSTRUCTION INC	48.51	14.88	33.63
700000045061	05/27/14	10SAL053	I	900909	REL514-RELIABLE NYC CONSTRUCTION INC	48.27	14.64	33.63
700000045077	05/27/14	10JEN068	I	900911	REL514-RELIABLE NYC CONSTRUCTION INC	47.94	14.62	33.32
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								282.37
9 tickets								

Report Grand Totals

282.37

9 tickets

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044797

	Date	Time	Scale
In:	5/27/2014	07:53:07	Scale CE
Out:	5/27/2014	08:16:42	Scale CE

******** Reprinted Ticket - Edited ********

Manifest: 900900
Vehicle ID: 10MAP008
Act 90 Decal: WH15358
Customer: RELIABLE NYC CONSTRUCTION

	Lbs	Tns
Gross:	73900	36.95
Tare:	27960	13.98
Net:	45940	22.97

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	22.97	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900900

(7)

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AC790#NH15358

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1055 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	13.98 ~~13.16~~
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	22.97 ~~23.79~~

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated / RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: [signature] Date and Time: 5-23-14

TRANSPORTER

Company: MAPYKA TKG. Phone Number:

Address: Elizabeth NJ Truck # and License Plate: AP890Z #8

Driver: Manuel B. SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044861

	Date	Time	Scale
In:	5/27/2014	07:55:14	Scale CE
Out:	5/27/2014	09:02:58	Scale CE

	Lbs	Tns
Gross:	78780	39.39
Tare:	26440	13.22
Net:	52340	26.17

Manifest: 900901
Vehicle ID: 10MAP003
Act 90 Decal: WH15358
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	26.17	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

(8)

Manifest # 900901

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACTS # NH 15358

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	13.22
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	26.17

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated / RCRA Non-hazardous Contaminated Materials

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chan Title: Consultant

Signature: [signature] Date and Time: 5-23-2014

TRANSPORTER

Company: MAPYKA Phone Number: AM 216 V

Address: Elizabeth NJ Truck # and License Plate: #3

Driver: Victor SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/27/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044975

	Date	Time	Scale
In:	5/27/2014	10:28:12	Scale CE
Out:	5/27/2014	10:28:40	D.T.

	Lbs	Tns
Gross:	94500	47.25
Tare:	28660	14.33
Net:	65840	32.92

Manifest: 900905
Vehicle ID: 10JEN072
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	32.92	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

#72.

Manifest # 900905

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143000950

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AL790 + LH 7990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Owner LLC 1035 Fulton St Bklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	14.33
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	32.90

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated / RCRA Non HAZ contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: foreman

Signature: [illegible] Date and Time: 5-27-14

TRANSPORTER

Company: Jencar Phone Number:

Address: 10 alexander dr Randolph Truck # and License Plate: AP 573 W.

Driver: Juan C Rodriguez (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Juan C Rodriguez Date and Time: 5/27/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000044995

	Date	Time	Scale
In:	5/27/2014	10:40:41	Scale CE
Out:	5/27/2014	10:43:27	P.T.

	Lbs	Tns
Gross:	95100	47.55
Tare:	28040	14.02
Net:	67060	33.53

Manifest: 900906
Vehicle ID: 10JEN069
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.53	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900906

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D ~~143000095D~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton St, Bklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	14.02
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	33.53

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT Regulated / RCRA Non HAZ contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 5.27.14

TRANSPORTER

Company: Jencar. Phone Number: 973 631 8181

Address: 10 Alexander Dr. Truck # and License Plate: 69. AP 885 D.

Driver: SERGIO LEONDON SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 05/27/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05/27/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045051

	Date	Time	Scale
In:	5/27/2014	11:14:31	Scale CE
Out:	5/27/2014	11:15:02	P.T.

	Lbs	Tns
Gross:	93540	46.77
Tare:	29620	14.81
Net:	63920	31.96

Manifest: 900910
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.96	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900910

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633 95D
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AC+95 m4 6940

GENERATOR'S NAME & SITE ADDRESS: Fulton hill corner LLC 1035 Fulton St Bkln NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☒Tons ☐Yards	14.81
GENERATOR'S PHONE:	NET WEIGHT: ☒Tons ☐Yards	31.96

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT regulated / RCRA non haz contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Carpt

Signature: [illegible] Date and Time: 5.27.14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN3B1D NJ

Driver: Sherry SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5/27/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/27/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045057

	Date	Time	Scale
In:	5/27/2014	11:17:30	Scale CE
Out:	5/27/2014	11:18:36	P.T.

	Lbs	Tns
Gross:	97020	48.51
Tare:	29760	14.88
Net:	67260	33.63

Manifest: 900908
Vehicle ID: 10SAL7
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.63	Tns

Storage Area: Area 2
Comment:

PENA

Driver: _____

Facility: _____
Lay, Clifford H 67116

CLEANEARTH

Manifest # 900908

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 43100095D

Please Check One:

9260 800 755 95D

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633 95D
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____ 43100095D

Non-Hazardous Material Manifest

(Type or Print Clearly) ACC 98 HH 6990

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC 1035 Fulton St Bklyn NY	TARE WEIGHT: ☐Tons ☐Yards	14.88
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	33.63

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT regulated/RCRA Non HAZ contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consult

Signature: _____ Date and Time: 5.27.14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: 1208596

Address: 1208 64ST NORTH BERGEN Truck # and License Plate: 7 XL116A

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 2976940 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 5-27-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 5-27-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045041

	Date	Time	Scale
In:	5/27/2014	11:10:27	Scale CE
Out:	5/27/2014	11:10:35	P.T.

	Lbs	Tns
Gross:	97900	48.95
Tare:	29420	14.71
Net:	68480	34.24

Manifest: 900907
Vehicle ID: 10JEN070
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	34.24	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900907

745

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 14310085D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

14310085D

Non-Hazardous Material Manifest

ACT 901 MA 2990

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton St Bklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	14.71
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	34.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT regulated / RCRA non haz contam soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Guest

Signature: _____ Date and Time: 5.27.14

TRANSPORTER

Company: SENCAR Phone Number:

Address: 10 Alexsander dr Truck # and License Plate: AP552R #70

Driver: Aldebien Hernandez SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-27-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-27-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-27-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045061

	Date	Time	Scale
In:	5/27/2014	11:21:45	Scale CE
Out:	5/27/2014	11:21:54	P.T.

	Lbs	Tns
Gross:	96540	48.27
Tare:	29280	14.64
Net:	67260	33.63

Manifest: 900909
Vehicle ID: 10SAL053
Act 90 Decal: WH6940R
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.63	Tns

Storage Area: Area 2
Comment:

Driver: B Fitzsmith

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 900909

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 1931000951

AL1116 #7

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

Act 95 NA 6940

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC 1035 Fulton St Bklyn NY	TARE WEIGHT: ☑Tons ☐Yards	14.64
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	33.63

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT regulated / RCRA Non Haz contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.27.14

TRANSPORTER

Company: LAZAR Trucking Phone Number:

Address: 1208-64 St. Truck # and License Plate: 53-AM6807

Driver: Gustavo B. SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time:

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/27/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time:

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045077

	Date	Time	Scale
In:	5/27/2014	11:30:00	Scale CE
Out:	5/27/2014	11:30:21	P.T.

	Lbs	Tns
Gross:	95880	47.94
Tare:	29240	14.62
Net:	66640	33.32

Manifest: 900911
Vehicle ID: 10JEN068
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.32	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900911

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 1431000095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT 90 #+ 2990

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton St Bkln NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	14.62
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	33.32

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT Regulated / RCRA Non-HAZ contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.27.14

TRANSPORTER

Company: JENCAR TRUCKING Phone Number:

Address: 10 Alexander Rd. Randolph NJ Truck # and License Plate: AP812A # 68

Driver: [illegible] SW Haulers Permit #: WH 7990

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 5/27/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 5/27/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-27-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/28/2014 through 05/28/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000045591	05/28/14	10JEN071	I	900912	REL514-RELIABLE NYC CONSTRUCTION INC	48.53	14.82	33.71
700000045596	05/28/14	10JSJ107	I	900913	REL514-RELIABLE NYC CONSTRUCTION INC	42.43	13.22	29.21
700000046007	05/28/14	10SIN444	I	900914	REL514-RELIABLE NYC CONSTRUCTION INC	45.28	14.55	30.73
700000046009	05/28/14	10SIN077	I	900915	REL514-RELIABLE NYC CONSTRUCTION INC	51.54	14.29	37.25
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								130.90
4 tickets								

Report Grand Totals

130.90

4 tickets

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045591

	Date	Time	Scale
In:	5/28/2014	10:03:47	Scale CE
Out:	5/28/2014	10:04:23	P.T.

	Lbs	Tns
Gross:	97060	48.53
Tare:	29640	14.82
Net:	67420	33.71

Manifest: 900912
Vehicle ID: 10JEN071
Act 90 Decal: WH7990
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	33.71	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900912

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143/000095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton St, Bklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☒Tons ☐Yards	14.82
GENERATOR'S PHONE:	NET WEIGHT: ☒Tons ☐Yards	33.71

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT regulated / RCRA non haz contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: Consult

Signature: _____ Date and Time: 5-27-14

TRANSPORTER

Company: Jencar trucking Phone Number: _____

Address: Randolph, NJ Truck # and License Plate: 71. AN509W.

Driver: Andres Arcizo SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 05/28/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 05/28/14.

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-28-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000045596

	Date	Time	Scale
In:	5/28/2014	10:05:17	Scale CE
Out:	5/28/2014	10:05:51	P.T.

	Lbs	Tns
Gross:	84860	42.43
Tare:	26440	13.22
Net:	58420	29.21

Manifest: 900913
Vehicle ID: 10JSJ107
Act 90 Decal: WH16265
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.21	Tns

Storage Area: Area 2
Comment:

Driver:

Facility:
Jay, Clifford H 67116

CLEANEARTH

Manifest # 900913

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143000095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ALT 9 Int 16265

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton St Bklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	13.22
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	29.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non DOT regulated/RCRA non haz contaminated material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consult

Signature: [illegible] Date and Time: 5.28.14

TRANSPORTER

Company: JSJ TRANSPORT Phone Number:

Address: MADISON NJ 07940 Truck # and License Plate: AD753U #107

Driver: JULIAN MORALES SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 28 MAY 2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 28 MAY 2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-28-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000046009

	Date	Time	Scale
In:	5/28/2014	15:38:56	Scale CE
Out:	5/28/2014	15:39:32	P.T.

	Lbs	Tns
Gross:	103080	51.54
Tare:	28580	14.29
Net:	74500	37.25

Manifest: 900915
Vehicle ID: 10SIN077
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	37.25	Tns

Storage Area: Area 2
Comment:

Driver: Jane Doe

Facility: Jay, Clifford H 67116

CLEANEARTH

Manifest # 900915

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** _____

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☑ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

AGT 98 Lot 16587

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton St Brooklyn NY	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☑Tons ☐Yards	14.29
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	37.25

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non hazardous contaminated material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consultant

Signature: [illegible] Date and Time: 5.28.14

TRANSPORTER

Company: IAA Phone Number: 862371 5795

Address: 274 Berside St Truck # and License Plate: 77 and AR669B

Driver: Jose Gomez SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 05-28-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 05-28-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-28-14

GENERATOR

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000046007

	Date	Time	Scale
In:	5/28/2014	15:37:00	Scale CE
Out:	5/28/2014	15:37:52	P.T.

	Lbs	Tns
Gross:	90560	45.28
Tare:	29100	14.55
Net:	61460	30.73

Manifest: 900914
Vehicle ID: 105IN444
Act 90 Decal: WH16587
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	30.73	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Lay, Clifford H 67116

CLEANEARTH

Manifest # 900914

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACTGO # HH6587

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Fulton Hill Corner LLC 1035 Fulton St Bklyn NY	TARE WEIGHT: ☐Tons ☐Yards	14.55
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	30.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non Haz contam material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: Consultant

Signature: [illegible] Date and Time: 5.28.14

TRANSPORTER

Company: SONAP TRUCKING Phone Number:

Address: 274 CARSIDE Truck # and License Plate: AP5734

Driver: Angel Ubrano SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Angel Date and Time: 05-28-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 05-28-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 5-28-14

GENERATOR

Profile: 143100095
Site ID: 310

Clean Earth of Philadelphia

Profile GTN

Transactions from 05/29/2014 through 05/29/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000046086	05/29/14	10SAL10	I	874206	REL514-RELIABLE NYC CONSTRUCTION INC	45.88	14.81	31.07
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								31.07
1 ticket								

Report Grand Totals

31.07

1 ticket

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000046086

	Date	Time	Scale
In:	5/29/2014	07:12:54	Scale CE
Out:	5/29/2014	07:13:43	P.T.

	Lbs	Tns
Gross:	91760	45.88
Tare:	29620	14.81
Net:	62140	31.07

Manifest: 874206
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095
Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	31.07	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 874206

133403

143100094 T&D

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** 143100095 D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

ACT90 TH 69410

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	14.81
Brooklyn NY 11238		
GENERATOR'S PHONE: 347-266-0819 Ty Haamid	NET WEIGHT: ☐Tons ☐Yards	31.07

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated/RCRA Non-Hazardous Contaminated Material

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Tyrone Haamid Title: Proj. Mgr

Signature: Tyrone Date and Time: 5/28/14 3:25pm

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN381D NJ

Driver: Shei Mu (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Vahey Date and Time: 5/20/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Vahey Date and Time: 5/29/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-29-14

GENERATOR

Clean Earth of Philadelphia

Profile GTN

Profile: 143100095
Site ID: 310

Transactions from 05/30/2014 through 05/30/2014
Inbound Tickets Only
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree					Global Job Number: 133403			
700000047013	05/30/14	10SAL10	I	826723	REL514-RELIABLE NYC CONSTRUCTION INC	44.46	14.81	29.65
143100095 - Fulton Hill Corner LLC/1035 Fulton Stree								29.65
1 ticket								
Report Grand Totals								29.65
1 ticket								

Clean Earth of Philadelphia
3201 South 61st Street
Philadelphia, PA 19153
Ph: (215) 724-5520 Fax: (215) 724-2939

Ticket: 700000047013

	Date	Time	Scale
In:	5/30/2014	12:10:09	Scale CE
Out:	5/30/2014	12:10:19	P.T.

	Lbs	Tns
Gross:	88920	44.46
Tare:	29620	14.81
Net:	59300	29.65

Manifest: 826723
Vehicle ID: 10SAL10
Act 90 Decal: WH6940
Customer: RELIABLE NYC CONSTRUCTION

Facility Approval#: 143100095

Generator: Fulton Hill Corner LLC
Gen Address: 936 Fulton Street
Brooklyn, NY 11238

Job Name: Fulton Hill Corner LLC/1035 F
Job Address: 1035 Fulton Street
Brooklyn, NY 11238

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment	29.65	Tns

Storage Area: Area 2
Comment:

Driver: _____

Facility: _____
Jay, Clifford H 67116

CLEANEARTH

Manifest # 826723

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143100095D

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Other
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC 1035 Fulton Street Brooklyn NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	Ae795 Th 6940
	TARE WEIGHT: ☑Tons ☐Yards	14.81
GENERATOR'S PHONE:	NET WEIGHT: ☑Tons ☐Yards	29.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non DOT Regulated / RCRA Non-Hazardous Contaminated Materials

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: Consultant

Signature: [signature] Date and Time:

TRANSPORTER

Company: Salazar Trucking Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN3815 NJ

Driver: Sheiny SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/30/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/30/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-30-14

GENERATOR

APPENDIX K

Manifests and Scale Tickets
Prospect Park

Clean Earth Environmental Services
P.O. Box 70834
Philadelphia, PA 19176-5834

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0048568
Invoice Date:
06/30/14
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		07/10/14

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
	RE: PROSPECT PARK							
133403	Beneficial Use	06/16/14	700000059889		77.5	Tons	11.00	852.50
133403	Beneficial Use	06/17/14	700000059890		198.53	Tons	11.00	2,183.83
133403	Beneficial Use	06/18/14	700000059892		201.02	Tons	11.00	2,211.22
133403	Beneficial Use	06/19/14	700000059894		265.03	Tons	11.00	2,915.33
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
0.00	8,162.88	742.08	Subtotal:	8,162.88
			Invoice Discount:	0.00
			Tax:	0.00
			Total:	**8,162.88**

Clean Earth, Inc.
P.O. Box 70834
Philadelphia, PA 19176-5834
Ph: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

STATEMENT

Statement Date: 07/31/14

Account Number: REL514

Page: 1

RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418
Hung Pin Hung

Doc No.	Doc Date	Due Date	Doc Type	Orig. Invoice Amt	Remaining Amt	Balance
PSI0048568	06/30/14	07/10/14	Invoice	8,162.88	8,162.88	8,162.88
07/31/14			Late Charge	122.44	122.44	8,285.32

Prior Late Charges		0.00
Current Late Charges	07/31/14	122.44
Total Late Charges		122.44

Statement Aging:

Days old:	Balance	Current	31 - 60 Days	61 - 90 Days	Over 90 Days
Aged amounts:	8,162.88	0.00	8,162.88	0.00	0.00
Late Charges:	122.44	122.44	0.00	0.00	0.00
Total Amount:	**8,285.32**	**122.44**	**8,162.88**	**0.00**	**0.00**

In accordance with the terms and conditions of your account, late charges may accrue at 18% per annum (1.5% per month) on all past due invoices. The terms of your account are Credit Card

ROYAL FLUSH TRANSPORT LLC

150-152 2nd Avenue

Newark, NJ 07104

Office: 973-757-9456 Cell: 347-375-9688

Fax: 862-902-6466

Fax

To: Reliable Nyc Construction

From: (Katherine) Royal Flush Transport

Fax: 718-850-0228

Pages: 3

Phone: 718-850-0188

Date: 8-21-14

Re: INV Ticket #

Cc:

41351, 41373, 41408, 41468, 41484, 41518

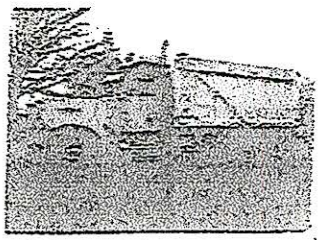
☒ Urgent ☐ For review ☐ Please comment ☒ Please reply ☐ Please recycle

Please Confirm you have Recieved it.

Thank You.

JENCAR TRUKING CORP

18 ALEXANDER DR
RANDOLPH, N.J. 07869
TEL/FAX: 1 973 3293284
CELL:1 917 6621858/1 646 6634945



ROYAL FLUSH

05-16-2014
Inv# 0516

CARRIER	PLATE	DRIVERS

DATE	TRUCK	TICKET	DESTINATION	
5-15-14	JEN 72	40454	FOHOA	/ PHLA
5-16-14	JEN 68	41373	"	"
5-16-14	JEN 71	41292	"	"
5-16-14	JEN 72	41408	"	"
5-16-14	JEN 70	41339	"	"
5-16-14	JEN 69	41351	"	"

JHONATAN TRUCKING LLC.
8 JOHN HAY AVE.
KEARNY NJ 07032
201-275-5282

BILL TO: Battal

DATE	INVOICE#
05/17/14	517314

ALL PAPER WORK MUST BE ATTACHED TO INVOICE

DATE	Ticket #	FROM	DELIVERED TO
05/15/14	700000040767	BROOKLYN	PHILADELPHIA
05/15/14	700000040768	BROOKLYN	PHILADELPHIA
05/16/14	700000041518	BROOKLYN	PHILADELPHIA
05/16/14	700000041484	BROOKLYN	PHILADELPHIA
05/16/14	700000041468	BROOKLYN	PHILADELPHIA

Weight Ticket

Ticket No. 22848
Issued On 06.16.2014 01:23 PM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	City, State, Zip	11238 Bronklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/16/2014 1:23:41 PM
Plate No.	AN381D	Tare	6/16/2014 11:56:18 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	98,500	29,680	68,820	34.41	0.00	
TOTAL						

Remarks: MANIFEST #926154

Driver Signature

Weighmaster Signature

001

CLEANEARTH

Manifest # 926154

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	98500
Fulton Hill Corner LLC	TARE WEIGHT: ☐Tons ☐Yards	29680
1035 Fulton Street, Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	34.41

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Rep

Signature: Date and Time: 6.16.14 1030

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #110 AN2811 NJ

Driver: Sherry (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 6/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 6/16/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/16/14

FACILITY

Weight Ticket

Ticket No. 22851
Issued On 06.16.2014 01:30 PM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	ROYAL FLUSH	**Gross**	6/16/2014 1:30:42 PM
Plate No.	AR101C	**Tare**	6/16/2014 1:20:30 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	72,460	25,700	46,760	23.38	0.00	
TOTAL						

Remarks: MANIFEST #926155

Driver Signature

Weighmaster Signature

CLEANEARTH

Manifest # 926155

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	72460
1035 Fulton Street, Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	25700
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	23.38

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6·16·14 1145

TRANSPORTER

Company: Dual Flush Phone Number: 973-757-9456

Address: 31a Summer ave Newark N.J. Truck # and License Plate: ARLOTC TRUCK #1

Driver: ELLIOT SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 6/16/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/16/14

FACILITY

Weight Ticket

Ticket No. 22850
Issued On 06.16.2014 01:34 PM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Aridress**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	R. MORENO TRUCKING	**Gross**	6/16/2014 1:34:47 PM
Plate No.	AP732N	**Tare**	6/16/2014 1:18:53 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	69,580	30,160	39,420	19.71	0.00	
TOTAL						

Remarks: MANIFEST #926156

Driver Signature

Weighmaster Signature

003

CLEANEARTH

Manifest # 926156

B/21-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC 100 Planten Ave Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	69580.
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	30160.
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	19.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super Rep

Signature: Date and Time: 6-16-14 1210

TRANSPORTER

Company: R. Norcaut Phone Number: 201 820 2752

Address: 184 Maple St Kearny NJ Truck # and License Plate: 113 DP732E

Driver: Romnel SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: X Date and Time: 6-16-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/16/14

FACILITY

Weight Ticket

Ticket No. 22870
Issued On 06.17.2014 09:14 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/17/2014 9:14:14 AM
Plate No.	AM680T	Tare	6/17/2014 8:57:40 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	99,980	29,760	70,220	35.11	0.00	
TOTAL						

Remarks: MANIFEST #926233

Driver Signature

Weighmaster Signature

004

CLEANEARTH

Manifest # 926233

14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC 100 Planten Ave Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	99980.
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	29760
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	35.11

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: Tyrone Date and Time: 6-17-14 0730

TRANSPORTER

Company: JALAJAL TRUCKING Phone Number:

Address: 1202-64 St. North B. Truck # and License Plate: 53-AM680-NS

Driver: GUSTAVO B. (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 6/17/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 6/17/14 9:00

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/17/14

FACILITY

Weight Ticket

Ticket No. 22871
Issued On 06.17.2014 09:16 AM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/17/2014 9:16:20 AM
Plate No.	AL116A	Tare	6/17/2014 8:58:53 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	95,540	30,080	65,460	32.73	0.00	
TOTAL						

Remarks: MANIFEST #926232

Penn
Driver Signature

Weighmaster Signature

005

CLEANEARTH

Manifest # 926232

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	95540
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	30080
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	3273

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: ~~6-16-14~~ 6-17-14 0740

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: R9665

Address: 1208 64 St South Bergen Truck # and License Plate: 7 AL 116A

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 1208596 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 6-17-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 6-17-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: ~~PENA~~ [signature] Date and Time: 6-17-2014

FACILITY 6/17/14

Weight Ticket

Ticket No. 22880
Issued On 06.17.2014 10:57 AM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/17/2014 10:57:03 AM
Plate No.	AN381D	Tare	6/17/2014 10:45:14 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	94,320	30,020	64,300	32.15	0.00	
TOTAL						

Remarks: MANIFEST #926224

Driver Signature

Weighmaster Signature

007

CLEANEARTH

Manifest # 926224

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	94320
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	30020
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.15

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brallan Date and Time: 6-17-14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN381D NJ

Driver: Sherry (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Valoy Date and Time: 6/17/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Valoy Date and Time: 6/17/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 6/17/14

FACILITY

Weight Ticket

Ticket No. 22888
Issued On 06.17.2014 01:22 PM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/17/2014 1:22:19 PM
Plate No.	AM680T	Tare	6/17/2014 1:06:10 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	95,880	29,760	66,120	33.06	0.00	
TOTAL						

Remarks: MANIFEST #926225

Driver Signature

Weighmaster Signature

006

CLEANEARTH

Manifest # 926225

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	95880
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	29760
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	33.06

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: (as rep) Date and Time: 6-17-13

TRANSPORTER

Company: ALAZAC Trucking Phone Number:

Address: 1305-64 St. North B. Truck # and License Plate:

Driver: Gustavo B. (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 6/17/14 11:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 6/17/14 11:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/17/14

FACILITY

Weight Ticket

Ticket No. 22889
Issued On 06.17.2014 01:23 PM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	**Gross**	6/17/2014 1:23:19 PM
Plate No.	AL116A	**Tare**	6/17/2014 1:07:14 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	96,400	29,920	66,480	33.24	0.00	
TOTAL						

Remarks: MANIFEST #926226

Driver Signature

Weighmaster Signature

008

CLEANEARTH

Manifest # 926226

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC~~ ~~100 Planten Ave~~ ~~Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	96400
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	29920
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	33.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6-17-14 1145

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: 2976940

Address: 1208 64 NORTH BERGEN Truck # and License Plate: 7 AL116A

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 1208596 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 6-17-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/17/14

FACILITY

Weight Ticket

Ticket No. 22896
Issued On 06.17.2014 02:33 PM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/17/2014 2:33:23 PM
Plate No.	AN381D	Tare	6/17/2014 2:22:11 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	94,380	29,900	64,480	32.24	0.00	
TOTAL						

Remarks: MANIFEST #926230

Driver Signature

Weighmaster Signature

009

CLEANEARTH

Manifest # 926230

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC	GROSS WEIGHT: ☐Tons ☐Yards	94380.
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	29900
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6·17·14 1300

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN381D NJ

Driver: Sherry (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 6/17/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 6/17/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/17/14

FACILITY

Weight Ticket

Ticket No. 22916
Issued On 06.18.2014 10:35 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	**Gross**	6/18/2014 10:35:51 AM
Plate No.	AN381D	**Tare**	6/18/2014 10:25:17 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	99,020	29,780	69,240	34.62	0.00	
TOTAL						

Remarks: MANIFEST #926227

Driver Signature

Weighmaster Signature

010

CLEANEARTH

Manifest # 926227

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	66030
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	29780
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	34.62.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6-18-14 0900

TRANSPORTER

Company: Salazar Trucking Phone Number:

Address: North Bergen NJ Truck # and License Plate: #70 AN 381 NJ

Driver: Sherry SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 6/18/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 6/18/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/18/14

FACILITY

Weight Ticket

Ticket No. 22920
Issued On 06.18.2014 10:49 AM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/18/2014 10:49:51 AM
Plate No.	AL116A	Tare	6/18/2014 10:40:32 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	94,440	30,000	64,440	32.22	0.00	
TOTAL						

Remarks: MANIFEST #926228

PENA

Driver Signature

Weighmaster Signature

011

CLEANEARTH

Manifest # 926228

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	94440.
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	30000
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.22

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: ~~6-17-14~~ 6-18-14 0910

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: R9665

Address: 1208 64 Truck # and License Plate: AL116A 7

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 1208596 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 6-18-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 6-18-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/18/14

FACILITY

Weight Ticket

Ticket No. 22919
Issued On 06.18.2014 10:51 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	**Gross**	6/18/2014 10:51:01 AM
Plate No.	AM680T	**Tare**	6/18/2014 10:39:26 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	96,100	29,900	66,200	33.10	0.00	
TOTAL						

Remarks: MANIFEST #926229

Driver Signature

Weighmaster Signature

012

CLEANEARTH

Manifest # 926229

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	96100
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	29900
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	33.10

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6.18.14 0920

TRANSPORTER

Company: ALAYAR Trucking Phone Number:

Address: 1204-64 N North B. Truck # and License Plate: #53-AM680-T

Driver: GUSTAVO B. (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 6/18/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 6/18/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/18/14

FACILITY

Weight Ticket

Ticket No. 22943
Issued On 06.18.2014 02:11 PM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	Gross	6/18/2014 2:11:41 PM
Plate No.	AN381D	Tare	6/18/2014 1:59:25 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	97,580	29,620	67,960	33.98	0.00	
TOTAL						

Remarks: MANIFEST #926157

Driver Signature

Weighmaster Signature

013

CLEANEARTH

Manifest # 926157

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- x ☐ Other ~~PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	97580
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	29620
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	33.98.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Bradam Date and Time: 6.18.14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number:

Address: North Bergen NJ Truck # and License Plate: #10 AN381DR

Driver: Shelmy (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 6/18/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 6/18/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 6/18/14

FACILITY

Weight Ticket

Ticket No. 22949
Issued On 06.18.2014 02:42 PM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	**Gross**	6/18/2014 2:42:30 PM
Plate No.	AM680T	**Tare**	6/18/2014 2:30:55 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	95,980	29,740	66,240	33.12	0.00	
TOTAL						

Remarks: MANIFEST #926158

Driver Signature

Weighmaster Signature

014

CLEANEARTH

Manifest # 926158

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	95,980
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	29740
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	33.12.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahan Date and Time: 6-18-14

TRANSPORTER

Company: ZAZAR Trucking Phone Number:

Address: 204 64th. North Truck # and License Plate: AH688-T-NJ

Driver: Gustavo (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 6/18/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 6/18/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/18/14

FACILITY

Weight Ticket

Ticket No. 22960
Issued On 06.18.2014 02:53 PM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	SALAZAR TRUCKING	**Gross**	6/18/2014 2:53:21 PM
Plate No.	AL116A	**Tare**	6/18/2014 2:32:15 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	97,740	29,780	67,960	33.98	0.00	
TOTAL						

Remarks: MANIFEST #926159

PENA

Driver Signature

Weighmaster Signature

015

CLEANEARTH

Manifest # 926159

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	97,740
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	29780
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	33.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahe Date and Time: 6-18-14

TRANSPORTER

Company: SALAZAR TRUCKING Phone Number: 89665

Address: 1208 64 NORTH BERGEN Truck # and License Plate: AL116A 7

Driver: PENA (Type or Print Clearly) SW Haulers Permit #: 1208596 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PENA Date and Time: 6-18-2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PENA Date and Time: 6-18-2014

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/18/14

FACILITY

Weight Ticket

Ticket No. 22970
Issued On 06.19.2014 10:08 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	J S J TRANSPORT #107	**Gross**	6/19/2014 10:08:12 AM
Plate No.	AP753U	**Tare**	6/19/2014 9:50:43 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	88,800	26,600	62,200	31.10	0.00	
TOTAL						

Remarks: MANIFEST #926160

Driver Signature

Weighmaster Signature

016

CLEANEARTH

Manifest # 926160

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- x Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton Street, Brooklyn, NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	88800.
	TARE WEIGHT: ☐Tons ☐Yards	26600
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	31.10

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahan Date and Time: 6-19-14

TRANSPORTER

Company: JSJ TRANSPORT Phone Number:

Address: 171 MAIN ST MADISON Truck # and License Plate: #107 AP753U

Driver: Luis (Type or Print Clearly) SW Haulers Permit #: 19 JUNE 2014 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 19 JUNE 2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 19 JUNE 6/19/14

FACILITY

Weight Ticket

Ticket No. 22974
Issued On 06.19.2014 10:36 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	LEDEZMA TRANSPORT	**Gross**	6/19/2014 10:36:57 AM
Plate No.	AR293C	**Tare**	6/19/2014 10:15:54 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	91,120	25,200	65,920	32.96	0.00	
TOTAL						

Remarks: MANIFEST #926161

Driver Signature

Weighmaster Signature

017

CLEANEARTH

Manifest # 926161

12-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	91120
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	25200
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.96.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahan Date and Time: 6·19·14

TRANSPORTER

Company: Ledesma TRANSPORT (NJ 18.) Phone Number:

Address: Truck # and License Plate: 108. AR.293C. N.J.

Driver: Jorge i Toro. SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 6/19/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 6/19/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/19/14

FACILITY

Weight Ticket

Ticket No. 22977
Issued On 06.19.2014 10:40 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	ARTIC SNOW REMOVAL #27	**Gross**	6/19/2014 10:40:02 AM
Plate No.	AP906Y	**Tare**	6/19/2014 10:23:31 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	93,400	25,200	68,200	34.10	0.00	
TOTAL						

Remarks: MANIFEST #926162

Driver Signature

Weighmaster Signature

018

CLEANEARTH

Manifest # 926162

14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC 100 Planten Ave Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	93400
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	25200
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	34.10

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahan Date and Time: 6·19·14

TRANSPORTER

Company: ARCTIC Phone Number:

Address: 41 WEST ST Truck # and License Plate: 27 NP 906X

Driver: WEST HANOVER NJ SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 06-19-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 6/19/14

FACILITY

Weight Ticket

Ticket No. 22983
Issued On 06.19.2014 11:31 AM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	ARTIC SNOW REMOVAL	Gross	6/19/2014 11:31:41 AM
Plate No.	AR806C	Tare	6/19/2014 11:13:04 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	96,360	27,280	69,080	34.54	0.00	
TOTAL						

Remarks: MANIFEST #926164

Driver Signature

Weighmaster Signature

020

CLEANEARTH

Manifest # 926164

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	96360
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	27280
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	34.54

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahan Date and Time: 6-19-14 0925

TRANSPORTER

Company: Artic Phone Number:

Address: Truck # and License Plate: AR8066

Driver: Orlando Perdomo (Type or Print Clearly) SW Haulers Permit #: 6-19-14 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time:

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/19/14.

FACILITY

Weight Ticket

Ticket No. 22985
Issued On 06.19.2014 11:49 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	HALES TRUCKING #2	Gross	6/19/2014 11:49:36 AM
Plate No.	AR861D	Tare	6/19/2014 11:32:50 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	94,740	30,760	63,980	31.99	0.00	
TOTAL						

Remarks: MANIFEST #926163

Driver Signature

Weighmaster Signature

019

CLEANEARTH

Manifest # 926163

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	94740
Fulton Hill Corner LLC		
1035 Fulton Street	TARE WEIGHT: ☐Tons ☐Yards	30760
Brooklyn, NY 11238		
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	31.99

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Braham Date and Time: 6-19-14

TRANSPORTER

Company: HALES TRUCKING CORP Phone Number: 646-226 7248

Address: 119 ACTON ST ELIZABETH NJ Truck # and License Plate: AR 861 D

Driver: ANGEL SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Angel Date and Time: 6/19/2014

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Angel Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/19/14

FACILITY

Weight Ticket

Ticket No. 22998
Issued On 06.19.2014 02:23 PM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	ARTIC SNOW REMOVAL #27	**Gross**	6/19/2014 2:23:21 PM
Plate No.	AP906Y	**Tare**	6/19/2014 2:04:10 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	89,560	25,080	64,480	32.24	0.00	
TOTAL						

Remarks: MANIFEST #926165

Driver Signature

Weighmaster Signature

021

CLEANEARTH

Manifest # 926165

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC 100 Planten Ave Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	89560
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	25080
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6-19-14

TRANSPORTER

Company: ARCTIC Phone Number:

Address: 41 WEST ST EATHANOVE NJ Truck # and License Plate: 27 AP 906 Y NJ

Driver: Victor Alata (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 06-19-14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 06-19-14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/19/14

FACILITY

Weight Ticket

Ticket No. 23006
Issued On 06.19.2014 03:43 PM

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	ARTIC SNOW REMOVAL	Gross	6/19/2014 3:43:05 PM
Plate No.	AR806C	Tare	6/19/2014 3:24:56 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	100,220	27,180	73,040	36.52	0.00	
TOTAL						

Remarks: MANIFEST #926166

Driver Signature

Weighmaster Signature

022

CLEANEARTH

Manifest # 926166

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton Street, Brooklyn, NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	100220
	TARE WEIGHT: ☐Tons ☐Yards	27180
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	36.52

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: J Brahan Date and Time: 6-19-14 1330

TRANSPORTER

Company: Arctic Phone Number:

Address: Truck # and License Plate: #3 AR-806C

Driver: SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 6/19/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 6/19/14

FACILITY

Weight Ticket

Ticket No. 23007
Issued On 06.19.2014 03:50 PM

PARK
RECLAIM & FLOURISH.

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	Address	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	J BROTHERS #1	Gross	6/19/2014 3:50:09 PM
Plate No.	AR240G	Tare	6/19/2014 3:32:59 PM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	92,100	28,940	63,160	31.58	0.00	
TOTAL						

Remarks: MANIFEST #926167

Driver Signature

Weighmaster Signature

023

CLEANEARTH

Manifest # 926167

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other ~~PPark NJ LLC 100 Planten Ave Prospect Park NJ 07508~~

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton Street, Brooklyn, NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	92100
	TARE WEIGHT: ☐Tons ☐Yards	28940
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	31.58

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Fulton Hill Corner LLC Title: Site Super

Signature: [signature] Date and Time: 6-19-14

TRANSPORTER

Company: J Brothers. Phone Number:

Address: North Bergen NJ Truck # and License Plate: #1 AR2409

Driver: Bolo SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 6-19-14.

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 6-19-14.

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 6/19/14

FACILITY

Clean Earth Environmental Services
P.O. Box 95000-3755
Philadelphia, PA 19195-0001

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0059193
Invoice Date:
01/26/15
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		02/05/15

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
	RE: PROSPECT PARK							
133403	Beneficial Use	01/16/15	700000182495	2	63.41	Tons	11.00	697.51
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
0.00	697.51	63.41	Subtotal:	697.51
			Invoice Discount:	0.00
			Tax:	0.00
			Total:	**697.51**

Prospect Park Truck Log

								63.41			
DATE	CLEAN EARTH	SURCHARGE RECLASSIFICATION DESCRIPTION	VEHICLE ID	BOL #	GROSS WT.	TARE WT.	NET WT.	TONS	CEDTI Global Job #	CEDTI Fac Approval #	DESCRIPTION
1/16/15	Clean Earth		AP391B	35205	93,380	28,640	64,740	32.37	133772	143030020	Fulton Hill Corner 14-288
1/16/15	Clean Earth		AK201S	35210	91,320	29,240	62,080	31.04	133772	143030020	Fulton Hill Corner 14-288
NOTE: Any line item in **BOLD** are surcharge items and are invoiced on a separate invoice with explanation											

Note: Any line items in **BOLD** are surcharge items and are invoiced on a separate invoice with explanation

Weight Ticket

Ticket No. 35205
Issued On 01.16.2015 09:10 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**PO #**	
		Address	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	ANDRADES TRANSPORT	**Gross**	1/16/2015 9:10:11 AM
Plate No.	AP391B	**Tare**	1/16/2015 9:02:26 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	93,380	28,640	64,740	32.37	0.00	
TOTAL						

Fill Zone: IX
Remarks: MANIFEST #926177

Driver Signature

Weighmaster Signature

CLEANEARTH

Manifest # 926177

#14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	93380.
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	28640
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	32.37.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# RED WC (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: NEKTARIOS KONSTANTOPOULOS Title: Project Manager

Signature: Date and Time: 01/16/15

TRANSPORTER

Company: ANDRADES Phone Number:

Address: N Gowanus NJ Truck # and License Plate: AP 391 B #2

Driver: Hector Coronel SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 1/16/15

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 1/16/15

FACILITY

Weight Ticket

Ticket No. 35210
Issued On 01.16.2015 09:30 AM

PARK
RECLAIM & FLOURISH

PPark
100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	Name	Fulton Hill Corner LLC
Name	Clean Earth	Job	14-288
Address	334 S. Warminster Road	PO #	
		Address	1035 Fulton Street
City, State, ZIP	Hatboro, PA 19040	City, State, Zip	11238 Brooklyn

Truck		Date and Time	
Hauler Name	MUNOZ TRUCKING	Gross	1/16/2015 9:30:04 AM
Plate No.	AK201S	Tare	1/16/2015 9:24:18 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)	Unit Price (tons)	Net Price
Clean Fill	91,320	29,240	62,080	31.04	0.00	
TOTAL						

Fill Zone: IX
Remarks: MANIFEST #926176

Driver Signature

Weighmaster Signature

CLEANEARTH

Manifest # 926176

#14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	91320
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	29240
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	31,04.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

RED WC

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: NEKTARIOS KONSTANTOPOULOS Title: Project Manager

Signature: Date and Time: 01/16/15

TRANSPORTER

Company: ANDRADES Phone Number:

Address: NEWARK NJ Truck # and License Plate: AK2015 #4

Driver: JESUS M. SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 1·16·15

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 1·16·15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 1/16/15

FACILITY

Clean Earth Environmental Services
P.O. Box 95000-3755
Philadelphia, PA 19195-0001

Phone: 215-734-1400
Fax: 215-734-1423

CLEANEARTH

Faster, smarter, greener solutions...

Invoice

Invoice Number:
PSI0061195
Invoice Date:
03/19/15
Order Number

Page:
1

Sold To:
RELIABLE NYC CONSTRUCTION INC
83-75 117TH STREET, 5F
RICHMOND HILL, NY 11418

PAID

Site Address:
1035 Fulton Street
347-266-0819
1035 Fulton Street
Brooklyn, NY 11238
Ty Haamid

Customer No.	Customer PO	Payment Terms
REL514		Credit Card
Sales Rep ID	**Shipping Method**	**Payment Due**
JEN SCHROF		03/29/15

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
	RE: PROSPECT PARK							
133403	Beneficial Use	03/03/15	133403133403	3	77	Tons	25.50	1,963.50
133403	Env, Energy, and Ins Fee					N/C		

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
1,963.50	0.00	77.00	Subtotal:	1,963.50
			Invoice Discount:	0.00
			Total Sales Tax:	*174.26*
			Total:	**2,137.76**

Prospect Park Truck Log

DATE	CLEAN EARTH	SURCHARGE RECLASSIFICATION DESCRIPTION	VEHICLE ID	BOL #	GROSS WT.	TARE WT.	NET WT.	77.00 TONS	CEDTI Global Job #	CEDTI Fac Approval #	DESCRIPTION	Rcv'd
NOTE: Any line item in **BOLD** are surcharge items and are invoiced on a separate invoice with explanation												
3/3/15	**Clean Earth**	**Surcharge Oversize 36X36**	**AR771G**	**36711**	**88,100**	**31,240**	**56,860**	**28.43**	**133772**	**143030020**	**Fulton Hill Corner 14-288**	
3/3/15	Clean Earth		AS621C	36713	93,980	30,000	63,980	31.99	133772	143030020	Fulton Hill Corner 14-288	
3/3/15	**Clean Earth**	**Surcharge Oversize 18X18**	**AS619C**	**36725**	**63,240**	**30,080**	**33,160**	**16.58**	**133772**	**143030020**	**Fulton Hill Corner 14-288**	

Note: Any line items in **BOLD** are surcharge items and are invoiced on a separate invoice with explanation

Weight Ticket

Ticket No. 36711
Issued On 03.03.2015 09:58 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	DI TRUCKING #9	**Gross**	3/3/2015 9:58:38 AM
Plate No.	AR771G	**Tare**	3/3/2015 9:58:36 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)
Surcharge - Off Spec larger than 36"x36"	88,100	31,240	56,860	28.43
Clean Fill	88,100	31,240	56,860	28.43

Remarks: MANIFEST #926222

Driver Signature

DRIVER COPY

Weighmaster Signature

tix 36711

36711

CLEANEARTH

Manifest # 926222

14-288.

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other PPark NJ LLC, 100 Plantsen Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	88100
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	31240
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	2843

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: NEKTARIOS KONSTANTOPOULOS Title: Project Manager Refinite

Signature: Date and Time: 2/12/15 9:00

TRANSPORTER

Company: DF Phone Number:

Address: Truck # and License Plate: AR 7416 #9

Driver: Paulo SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time:

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

TRANSPORTER

Weight Ticket

Ticket No. 36713
Issued On 03.03.2015 11:29 AM

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	DI TRUCKING #13	**Gross**	3/3/2015 11:29:28 AM
Plate No.	AS621C	**Tare**	3/3/2015 10:12:13 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)
Clean Fill	93,980	30,000	63,980	31.99

Remarks: MANIFEST #926223

Driver Signature

DRIVER COPY

Weighmaster Signature

CLEANEARTH

Manifest # 926223

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Fulton Hill Corner LLC, 1035 Fulton Street, Brooklyn, NY 11238	GROSS WEIGHT: ☐Tons ☐Yards	93980
	TARE WEIGHT: ☐Tons ☐Yards	30000
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	31.99

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

See attached page 3 of 3

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: DJ TRUCK # 13 Phone Number: 862 588 1031

Address: NEWARK NJ Truck # and License Plate: 13 AS 621C

Driver: FRENNSON SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 3.9.15

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 3.9.15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

TRANSPORTER

Weight Ticket

Ticket No. 36725
Issued On 03.03.2015 11:23 AM

PARK
RECLAIM & FLOURISH

PPark

100 Planten Ave.
Prospect Park, NJ 07508
973-947-4488 (Phone)
973-542-2218 (Fax)

Customer		Project	
Ref. No.	1	**Name**	Fulton Hill Corner LLC
Name	Clean Earth	**Job**	14-288
Address	334 S. Warminster Road	**Address**	1035 Fulton Street
City, State, ZiP	Hatboro, PA 19040	**City, State, Zip**	11238 Brooklyn

Truck		Date and Time	
Hauler Name	DI TRUCKING #11	**Gross**	3/3/2015 11:23:53 AM
Plate No.	AS619C	**Tare**	3/3/2015 11:23:47 AM

Material	GROSS	TARE	NET (lbs)	NET (tons)
Surcharge - Off Spec larger than 18"x18"	63,240	30,080	33,160	16.58
Clean Fill	63,240	30,080	33,160	16.58

Remarks: MANIFEST #926221

Driver Signature

DRIVER COPY

Weighmaster Signature

tx# 36725

CLEANEARTH

Manifest # 926221

14-288

GLOBAL JOB NUMBER: 133403 **FACILITY APPROVAL NUMBER:** 143030020

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☒ Other PPark NJ LLC, 100 Planten Ave, Prospect Park NJ 07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	63240
Fulton Hill Corner LLC 1035 Fulton Street Brooklyn, NY 11238	TARE WEIGHT: ☐Tons ☐Yards	30080
GENERATOR'S PHONE: 347-266-0819	NET WEIGHT: ☐Tons ☐Yards	1658

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NJ DEP Residential Non-Hazardous Soil PPNJ 061014-0149 PROJECT #14-288

GRID# or AREA# (MUST BE ON ALL MANIFESTS OR LOADS MAY BE REJECTED)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: [illegible]

Signature: [illegible] Date and Time: [illegible]

TRANSPORTER

Company: [illegible] Phone Number: [illegible]

Address: [illegible] Truck # and License Plate: [illegible]

Driver: [illegible] SW Haulers Permit #: [illegible]

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 3-3-15

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: 3-3-15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 3/3/15

TRANSPORTER

APPENDIX L

Import Documentation

47-14-020 (01/94)
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE

REGISTRATION FORM FOR A SOLID WASTE MANAGEMENT FACILITY

Please read and follow all instructions before completing this registration form

Please Type or Print clearly — THIS IS NOT A UPA PERMIT

DEPARTMENT USE ONLY	
DEC REGISTRATION #	4 1 W 9 3
DEC ADMINISTRATION #	
DATE RECEIVED	9/10/98

1. FACILITY NAME AND LOCATION

EVERGREEN RECYCLING OF CORONA

Street: WILLETS POINT BLVD.

City/Village: CORONA MEADOWS YARD

Town: CORONA County: QUEENS

Telephone Number: (718) 446-7000

2. FACILITY OWNER'S NAME

TULLY ENVIRONMENTAL, INC.

Mailing Address: 127-50 NORTHERN BLVD.

City/Town/Village: FLUSHING

State/Zip Code: NEW YORK, 11368

Telephone Number: (718) 446-7000 ex ~~248~~ 297

3. FACILITY OPERATOR'S NAME (if different)

TULLY ENVIRONMENTAL, INC.

Mailing Address: 127-50 NORTHERN BLVD.

City/Town/Village: FLUSHING

State/Zip Code: NEW YORK 11368

Telephone Number: ( ) ~~718 446-7000 ex 248~~

4. SITE OWNER'S NAME (if different)

METROPOLITAN TRANSPORATION AUTHORITY

Mailing Address: ~~347 MADISON AVENUE~~

City/Town/Village: NEW YORK

State/Zip Code: NEW YORK 10017-3739

Telephone Number: (212) 878-7048

5. TYPE OF FACILITY REGISTRATION (check all applicable boxes)

- ☐ Energy Recovery Incinerators or Pyrolysis Units [360-3.1(c)]
- ☐ Land Application and Sludge Storage Facilities [360-4.1(c)]
- ☐ Composting and Other Distribution and Marketing Facilities [360-5.3(b)]
- ☐ Land Clearing Debris Landfills three acres or less [360-7.2(a)]
- ☐ Transfer Stations (municipally owned/operated/contracted) receiving less than 50 000 cubic yards or 12,500 tons of household solid waste annually [360-11.1(b)(1)]
- ☐ Transfer Stations (municipally owned/operated/contracted) receiving less than 50 000 cubic yards or 12,500 tons of containerized solid waste annually [360-11.1(b)(2)]
- ☐ Source Separated, Nonputrescible Solid Waste Recyclables Handling and Recovery Facilities [360-12.1(d)]
- ☐ Waste Tire Retreaders [360-13.1(d)(1)(i)]
- ☐ Waste Tires Stored for On-site Energy Recovery [360-13.1(d)(1)(ii)]
- ☐ Tire Dealers Selling Waste Tires [360-13.1(d)(1)(iii)]
- ☐ Tire Manufacturing Facilities [360-13.1(d)(1)(iv)]
- ☒ Processing Facilities Receiving Only Recognizable Uncontaminated Concrete, Asphalt Pavement, Brick, Soil or Rock [360-16.1(d)(1)(i)]
- ☐ Uncontaminated Unadulterated Wood Processing Facilities [360-16.1(d)(1)(ii)]
- ☐ Other Facilities not specifically described above, Specify Type

6. SOLID WASTE HANDLED

a. List wastes and/or materials to be accepted: Concrete Fill, Virgin Sand, Gravel, Asphalt

b. Quantity (Specify Units - see instructions)
design capacity: 10,000 yards
storage on site: 50,000 yards

7. OPERATIONS SCHEDULE - Normal schedule of operation: Mon-Fri 7am-6pm

8. NAME(S) OF ALL MUNICIPALITIES SERVED

9. CERTIFICATION:

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as President (title) of Tully Environmental (Entity) to sign this registration form pursuant to 6 NYCRR Part 360. By signing this registration form, I affirm that I have read the applicable regulation) and will abide by all conditions of the registration requirements. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name	Signature	Mo.	Day	Year
Peter K. Tully		09	08	98

REGIONAL OFFICE COPY - COPY #1

MT Group

145 Sherwood Avenue, Farmingdale, NY 11735 (631) 815-1900

Serving the Mid-Atlantic and Northeast Regions for over 30 years
www.mtgroup.com

Client: Evergreen Recycling
David Cinquemani
127-50 Northern Blvd.
Flushing, NY 11368

Project: Evergreen Recycling

Project ID: 201210100
Weather:
Temperature:

Date: 01/07/2015
Report #: 1-140-000175
Inspector: Christopher Marro
Time Start:
Time Finish:

REPORT: Sieve Analysis

MTG NO: 52430-12
Test Method: See Below

Material: Recycled Stone

Sieve	% Passing	Low	High
1 1/2 in	100		
1.00 in	51		
3/4 in	8		
1/2 in	3		
3/8 in	2		
No. 4	2		
No. 8	2		
No. 200	0.6		

Test Method (As Applicable):ASTM D 422, ASTM D 1140

Orig: Evergreen Recycling Attn: David Cinquemani
(1-ec copy)

Respectfully Submitted,
MT Group

P. Hessel, Engineer

INSPECTIONS AND TESTS REPORTED HEREIN WERE PERFORMED IN ACCORDANCE WITH INDUSTRY ACCEPTED STANDARDS AND PROCEDURES. FINDINGS ARE LIMITED TO THOSE PORTIONS OF THE WORK INSPECTED AND/OR TESTED AS IDENTIFIED HEREIN. NO REPRESENTATIONS ARE MADE ABOUT THE CONDITION OF OTHER PORTIONS OF THE WORK.

504126

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point
Tel: 718-205-8038 Fax: 718-20

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

SCALE TICKET

Ticket Number:
Date:
Trucker:
Truck No.:
License No.:
Job No.:
Entered By:

Customer:
Address:
Phone:

SALE

Store: 1 Term: 0001
REF#: 00000001
Batch #: 298 RRN: 512108203581
05/01/15 04:37:22
Ship-to Postal/Zip: 11368
Trans ID: 003108795713872
APPR CODE: 131956
AMEX Manual CP
**********2005 **/**

PRODUCT | TONS

AMOUNT $700.00

APPROVED

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549904

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8202

SCALE TICKET

Ticket Number: 100385198
Date: 5/1/2015 4:26 AM
Trucker: NIE Trucking
Truck No.: Reliable/14
License No.:
Job No.:
Entered By: valba

Customer: CHARGE $700.00
Address:
Phone:
Job No:reliable

PRODUCT | YARDS/TONS TONS

Outbound
3/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

Evergreen Recycling of Corona In
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-[illegible]-8038 Fax: 718-205-82

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

504127

SCALE TICKET

Ticket Number:
Date:
Trucker:
Truck No.:
License No.:
Job No.:
Entered By:

Customer:
Address: CHARGE $700.00

Phone:

PRODUCT

SALE

Store: 1 Term: 0001
REF#: 00000002
Batch #: 298 RRN: 512108402845
05/01/15 04:38:16
Ship-to Postal/Zip: 11368
Trans ID: 003059781913085
APPR CODE: 136794
AMEX Manual CP
**********2005 **/**

AMOUNT **$700.00**

APPROVED

TONS

X

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8202

549905

SCALE TICKET

Ticket Number: 100385199
Date: 5/1/2015 4:40 AM
Trucker: NIE Trucking
Truck No.: Reliable/15
License No.:
Job No.:
Entered By: valba

Customer: CHARGE $700.00
Address:

Phone:
Job No:Reliable

PRODUCT YARDS/TONS TONS

Outbound
3/4 RCA Stone 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503767

SCALE TICKET

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8202

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

lumber:

Customer:
Address:

Phone:

lo.:
No.:
:
By:

SALE

Store: 1 Term: 0001
REF#: 00000002
Batch #: 297 RRN: 512009200898
04/30/15 05:33:21
Ship-to Postal/Zip: 11368
Trans ID: 003222457269774
APPR CODE: 146465
AMEX Manual CP
**********2005 ****

PRODUCT

TONS

AMOUNT $700.00

APPROVED

CURB DELIVERIES ONLY—OTHERS

X_____

CHASER'S RISK

I AGREE TO PAY ABOVE TOTAL AMOUNT IN ACCORDANCE WITH CARD ISSUER'S AGREEMENT (MERCHANT AGREEMENT IF CREDIT VOUCHER) RETAIN THIS COPY FOR STATEMENT VERIFICATION

FULL

MERCHANT COPY

549900

SCALE TICKET

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8202 12:23:01 PM

Ticket Number: 100384853
Date: 4/30/2015 5:35 AM
Trucker: NIE Trucking
Truck No.: RELIABLE/14
License No.:
Job No.: valba
Entered By:

CHARGE $7.00

Customer:
Address:

Phone:
Job No:

PRODUCT

YARD5/TONS
TONS

Outbound

3/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503844

Evergreen Recycling of Corona Inc
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Bl
Tel: 718-205-8038 Fax: 718-205-

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

SCALE TICKET

Ticket Number:
Date: 100384929
Trucker: 4/30/2015 8:36 AM
Truck No.: NIE Trucking
License No.:
Job No.:
Entered By:

Customer:
Address: CHARGE $700.00
Phone:

SALE

Store: 1 Term: 0001
REF#: 00000007
Batch #: 297 RRN: 512012201296
04/30/15 08:33:41
Ship-to Postal/Zip: 11368
Trans ID: 003061839040572
APPR CODE: 136519
AMEX Manual CP
**********2005 **/**

PRODUCT

TONS

AMOUNT **$700.00**

APPROVED

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549901

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8102

SCALE TICKET

Ticket Number: 100384929
Date: 4/30/2015 8:36 AM
Trucker: NIE Trucking
Truck No.: RELIABLE/14
License No.:
Job No.: valba
Entered By:

Customer:
Address:
Phone:

Printed: 12/8/2020 12:23:14 PM

CHARGE $700.00

Job No reliable

PRODUCT

YARDS/TONS
TONS

Outbound
3/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503950

Evergreen Recycling of Corona I
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd
Tel: 718-205-8038 Fax: 718-205-82

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

SCALE TICKET

Reprinted 4/30/2015 1

Customer:
Address: CHARGE $700.00
Phone:

SALE

Store: 1 Term: 0001
REF#: 00000019
Batch #: 297 RRN: 512015000613
04/30/15 11:49:56
Ship-to Postal/Zip: 11368
Trans ID: 003069924838370
APPR CODE: 115407
AMEX Manual CP
**********2005 **/**

Ticket Number:
Date: 100385016
Trucker: 4/30/2015 11:13 AM
Truck No.: NIE Trucking
License No.: 11
Job No.:
Entered By:

PRODUCT | TONS

AMOUNT $700.00

APPROVED

X_____

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549902

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8312

SCALE TICKET

Ticket Number: 100385016
Date: 4/30/2015 11:13 AM
Trucker: NIE Trucking
Truck No.: RELIABLE/11
License No.:
Job No.: valba
Entered By:

CHARGE $700.00
Customer:
Address:
Phone:
Job No RELIABLE

PRODUCT | YARDS/TONS TONS

Outbound:
3/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503951

SCALE TICKET

Evergreen Recycling of Coron
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point B
Tel: 718-205-8038 Fax: 718-205

Reprinted 4/30/2015

Customer:
Address: DAMAGE $700.00

Phone:

PRODUCT

Outbound
RLA Stone - Out

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

SALE

Store: 1 Term: 0001
REF#: 00000020
Batch #: 297 RRN: 512015600603
04/30/15 11:50:47
Ship-to Postal/Zip: 11368
Trans ID: 003106675985875
APPR CODE: 140058
AMEX Manual CP
**********2005 **/**

AMOUNT **$700.00**

APPROVED

Ticket Number:
Date: 100385017
Trucker: NTE Trucking
Truck No.: RELIABLE
License No.:
Job No.:
Entered By:

TONS

30.00

X

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549903

SCALE TICKET

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8202

Reprinted 4/30/2015 12:24:01 PM

CHARGE $700.00

Customer:
Address:

Phone:
Job No: RELIABLE

PRODUCT

Outbound
3/4 CRCA Stone - Out

Ticket Number: 100385017
Date: 4/30/2015 11:15 AM
Trucker: NTE Trucking
Truck No.: RELIABLE/12
License No.:
Job No.: valba
Entered By:

YARDS/TONS
TONS

35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503486

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd
Tel: 718-205-8038 Fax: 718-205-8

SCALE TICKET

Ticket Number:
Date:
Trucker:
Truck No.:
License No.:
Job No.:
Entered By:

Customer:
Address:

Phone:

EVERGREEN RECYCLING
127-50 NORTHERN BLVD
FLUSHING, NY 11368
718-446-7000

SALE

Store: 1 Term: 00
REF#: 000000
Batch #: 296 RRN: 5119082020
04/29/15 04:40:
Ship-to Postal/Zip: 11368
Trans ID: 003219603967772
APPR CODE: 160554
AMEX Manual C
**********2005 **/

AMOUNT $700.0

APPROVED

PRODUCT | TONS

CURB DELIVERIES ONLY—O | AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549835

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8108

SCALE TICKET

Ticket Number: 100384580
Date: 4/29/2015 4:32 AM
Trucker: NIE Trucking
Truck No.: RELIABLE/12
License No.:
Job No.: valba
Entered By:

Customer:
Address:

Phone:

Printed: 04/29/2015 10:26:40 AM
CHARGE 50.00.00
Job No/1035 fulton at brk

PRODUCT | ~~YARDS/TONS~~ TONS

Outbound
3/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503504

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point
Tel: 718-205-8038 Fax: 718-2(

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

SCALE TICKET

Ticket Number:
Date:
Trucker:
Truck No.:
License No.:
Job No.:
Entered By:

Customer:
Address: CHARGE $700.00

Phone:

PRODUCT

SALE

Store: 1 Term: 0001
REF#: 00000002
Batch #: 296 RRN: 511909404792
04/29/15 05:55:42
Ship-to Postal/Zip: 11368
Trans ID: 003054405993084
APPR CODE: 140260
AMEX Manual CP
**********2005 **/**

AMOUNT $700.00

TONS

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549849

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8202
Reprinted: 10/19/2015 10:37:38 AM

SCALE TICKET

Ticket Number: 100384598
Date: 4/29/2015 5:57 AM
Trucker: NLE Trucking
Truck No.: RELIABLE/14
License No.:
Job No.:
Entered By: valba

Customer: CHARGE $700.00
Address:

Phone:

Job No 1035 Fulton St To BRK

PRODUCT YARDS/TONS

Outbound
3/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

503585

SCALE TICKET

Evergreen Recycling of Coro
127-50 Northern Blvd.
Flushing, NY 11368
YARD: 35th Ave. Willets Point
Tel: 718-205-8038 Fax: 718-20

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

Ticket Number:
Date: 100384674
Trucker: 4/29/2015 9:45 AM
Truck No.: NIE Trucking
License No.: 14
Job No.:
Entered By:

Customer: CHARGE $700.00
Address:
Phone:

SALE

Store: 1 Term: 0001
REF#: 00000011
Batch #: 296 RRN: 511913000300
04/29/15 09:48:08
Ship-to Postal/Zip: 11368
Trans ID: 003054683600088
APPR CODE: 199872
AMEX Manual CP
**********2005 **/**

PRODUCT

TONS

AMOUNT $700.00

APPROVED

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549850

SCALE TICKET

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 FAX 718-205-8402 10:38:44 AM

Ticket Number: 100384674
Date: 4/29/2015 9:45 AM
Trucker: NIE Trucking
Truck No.: RELIABLE/14
License No.:
Job No.: valba
Entered By:

CHARGE - $700.00
Customer:
Address:
Phone:
Job No 1035 Fulton St In BRK

PRODUCT

YARDS/TONS
TONS

Outbound
S/4 RCA Stone - Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

503677

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point B
Tel: 718-205-8038 Fax: 718-205

EVERGREEN RECYCLING
127-50 NORTHERN BVLD
FLUSHING, NY 11368
718-446-7000

SCALE TICKET

Ticket Number:
Date:
Trucker: 4/29/2015 12:54 PM
Truck No.: NLE Trucking
License No.:
Job No.:
Entered By:

Customer:
Address: CHARGE $700.00
Phone:

SALE

Store: 1 Term: 0001
REF#: 00000017
Batch #: 296 RRN: 511916402306
04/29/15 12:55:13
Ship-to Postal/Zip: 11368
Trans ID: 003067425949373
APPR CODE: 145247
AMEX Manual CP
**********2005 **/**

PRODUCT | TONS

AMOUNT $700.00

APPROVED

X_____

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

549854

Evergreen Recycling of Corona Inc.
127-50 Northern Blvd.
Flushing, NY 11368
YARD 35th Ave. Willets Point Blvd.
Tel: 718-205-8038 Fax: 718-205-8039

SCALE TICKET

Ticket Number: 100384765
Date: 4/29/2015 12:54 PM
Trucker: NLE Trucking
Truck No.: RELIABLE/14
License No.:
Job No.:
Entered By: valba

Customer: CHARGE $700.00
Address:
Phone:
Job No 1035 Fulton St In BRK

PRODUCT | YARDS/TONS
TONS

Outbound
3/4 RCA Stone Out 35.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

127-50 Northern Blvd.
Flushing, N.Y. 11368
718-205-8038 Fax 718-205-8202
Yard: Willets Point Blvd. & 35 th Ave.

EVERGREEN RECYCLING OF CORONA, INC.

Fax

To:	NEIL	**From:**	David Cinquemani
	Reliable	**Pages:**	2
Fax:	718-850-0228	**Date:**	4/27/15
Re:	Rec Stone	**CC:**	

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

APPENDIX M

Sustainability Report

APPENDIX M

SUSTAINABILITY REPORT

This Remedial Action Work Plan provides for sustainable remediation and redevelopment through a variety of means that are defined in this Sustainability Report.

Reuse of Clean, Recyclable Materials. Reuse of clean, recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction since these materials can be locally-derived.

An estimate of the tonnage of recycled concrete aggregate reused on this project is 140 tons.

Recontamination Control. Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later that could impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of existing contamination from off-Site.

As a part of construction, a 20-mil vapor barrier were installed to eliminate the risk of future migration of soil vapor contamination from off-Site. In addition, the entire Site is capped with concrete, which would prevent future on-Site spills from impacting sub-surface soil. The area of the Site that utilizes recontamination controls under this plan is 100% of the property, or 6,247 square feet.

Conversion to Clean Fuels. Use of clean fuel improves NYC's air quality by reducing harmful emissions. Natural gas is now utilized as the principal fuel in the new buildings.

Paperless Brownfield Cleanup Program. Fulton Hill Corner LLC participated in OER's Paperless Brownfield Cleanup Program. Under this program, submission of electronic documents replaced submission of hard copies for the review of project documents, communications and milestone reports. A best estimate of the mass (pounds) of paper saved under this plan is 25 lbs.

EBC
Environmental Business Consultants
1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Low-Energy Project Management Program. Fulton Hill Corner LLC participated in OER's low-energy project management program. Under this program, whenever possible, meetings were held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation. A gross estimate of the number of miles of personal transportation that was conserved in this process is 300 miles.

Trees and Plantings. Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance. The number of trees planted as part of this redevelopment is 3.

EBC
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1808 Middle Country Road
Ridge, NY 11961
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Fax 631.924.2870

APPENDIX N

Engineering Control Chesklist

Site Inspection Checklist - Cover System
1035 Fulton Street
Brooklyn, NY

Date: _____ Time: _____

Inspector Name/Organization: _____

Visual Inspection of Concrete Slabs

Building Inspect concrete slab for cracks, perforations and patching

Describe General Condition of Slab _____

Describe any Cracks or New Penetrations _____

Describe any Patching _____

Exterior Impervious Cap Areas (Rear Courtyard) Inspect for cracks, perforations and patching

Describe General Condition of Impervious Cap _____

Describe any Cracks or New Penetrations _____

Describe any Patching _____

Repairs Needed and / or Maintenance at this time?

_____

Signature: _____ Date: _____