

Consultants Open House 2016

Department of
Design and Construction

Dr. Feniosky Peña-Mora
Commissioner



660

Active infrastructure
portfolio

641

active public buildings
portfolio

\$15 billion

current portfolio
value

\$17 billion

expected by
2020

250+

awards won
since inception

4151

projects completed
since 1996

1300

consultant workforce

\$16 billion

completed
since 1996

1321

in-house workforce



ACCOMPLISHMENTS

Public Buildings: **\$428M**

Capital: \$401M

Expense: \$27M

FY2016
Total
\$1.7B

Infrastructure: **\$1.25B**

Capital: \$1.24B

Expense: \$12M

Largest Ever

Public Buildings: \$1.4B

Capital: \$547M

Expense: \$865M

Infrastructure: \$1B

Capital: \$968M

Expense: \$23M

FY2015

Total

\$2.4B

**Largest
Ever**

Prime Contracts Subject to MWBE Program

2014

\$127,520,478

29%
increase

2015

\$164,664,929

Subcontracts Subject to MWBE Program

2014

\$19,586,490

34%
increase

2015

\$26,255,029

Mayorality

\$13.8B

Procurement Value

\$724.2M

Includes Agency Subcontracts in
Goods and Services

\$396.6M

Prime Contracts Citywide

\$75.2M

Subcontracts Citywide

15%

Of total city
procurement value

35%

Of total MWBE award
commitments fulfilled

42%

Of total MWBE award
commitments fulfilled

35%

Of total MWBE award
commitments fulfilled

DDC

\$2.06B

Procurement Value

\$242.6M

Includes Agency Subcontracts in
Goods and Services

\$164.7M

Prime Contracts

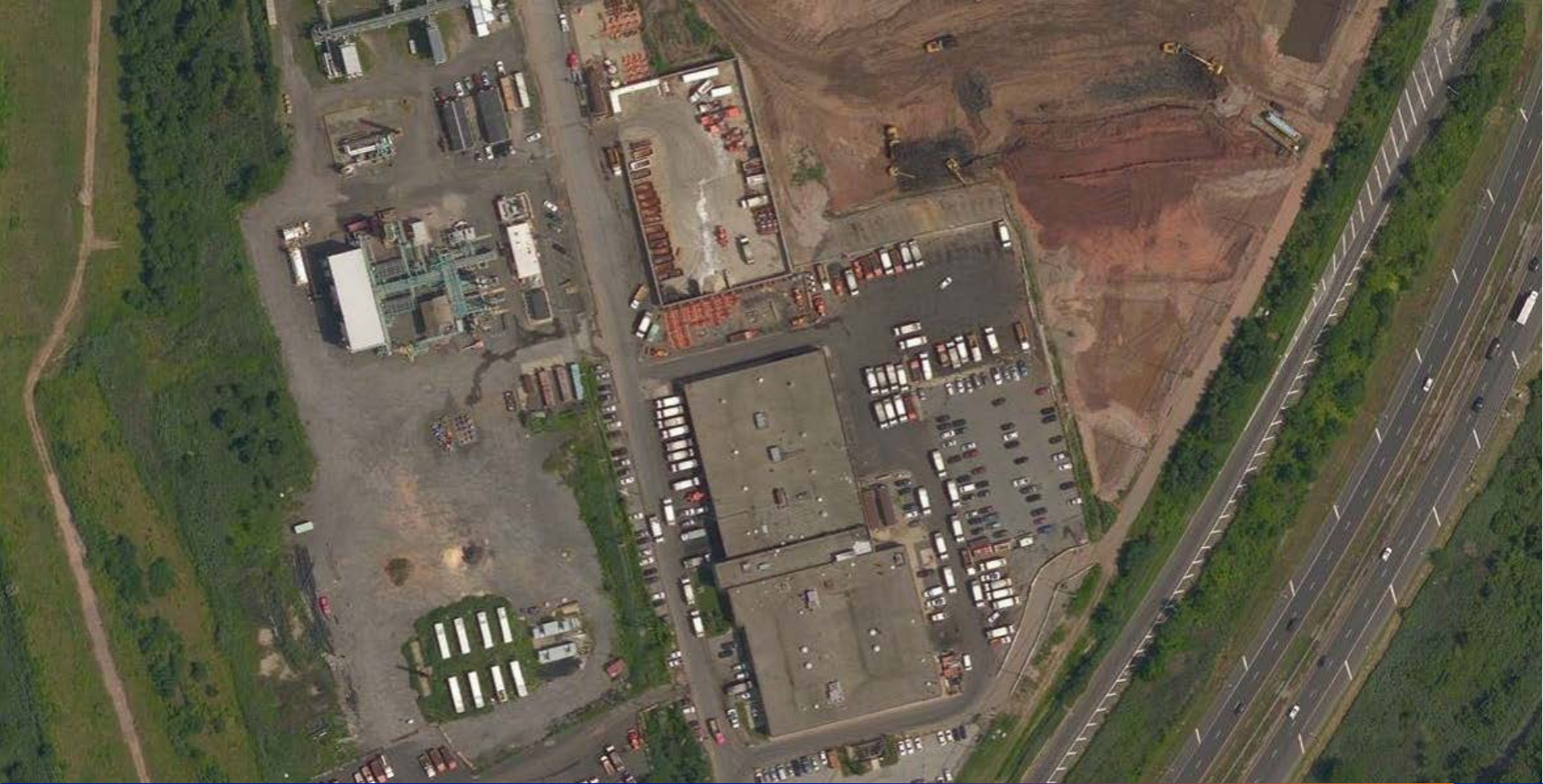
\$26.2M

Subcontracts

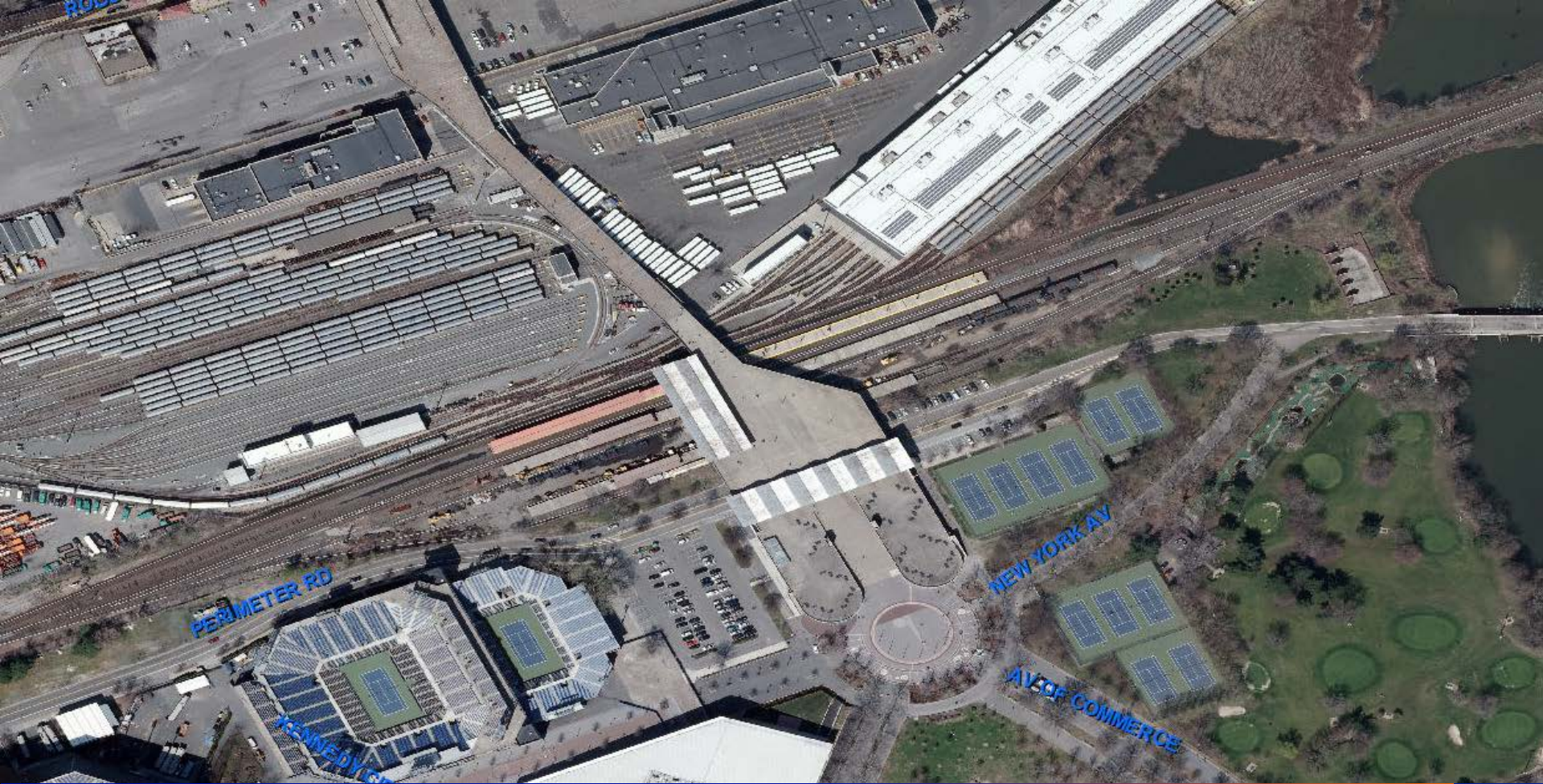
Key Upcoming Projects



A&E: Master Planning – Fort Totten Training Academy



CM Services: Staten Island 1&3 Garage and Boro Repair Facility





Implementing the Guiding Principles

Margaret O'Donoghue Castillo, FAIA LEED AP
Chief Architect

Design and Construction Excellence 2.0 **Guiding Principles**

Equity
Sustainability
Resilience
Healthy Living

Healthy Living

Montefiore Square Park



Resiliency

Eastside Coastal
Resiliency Initiative



Growth

Times Square



Sustainability

Rescue Company 2



Equity

East Flatbush Library



EQUITY

*Design can create equitable spaces that **convey a sense of welcome to all** while improving **access to essential services** and places of work, socialization, recreation and culture, especially in underserved neighborhoods... Extraordinary design can harness latent local qualities, turning serviceable projects into magnetic and catalytic ones for all.*

— Extracted from Design and Construction Excellence 2.0
Guiding Principles, March 2016



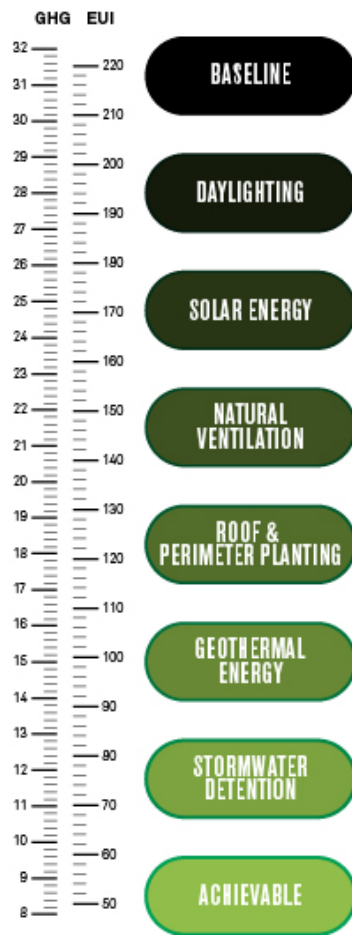
East Flatbush Public Library
Levenbetts

SUSTAINABILITY

*The City has set a high bar, **pledging a reduction in greenhouse gas emissions of 80 percent from 2005 levels by 2050**, and reducing commercial waste 90 percent by 2030 — with municipal buildings leading the way.*

— Extracted from Design and Construction Excellence 2.0
Guiding Principles, March 2016





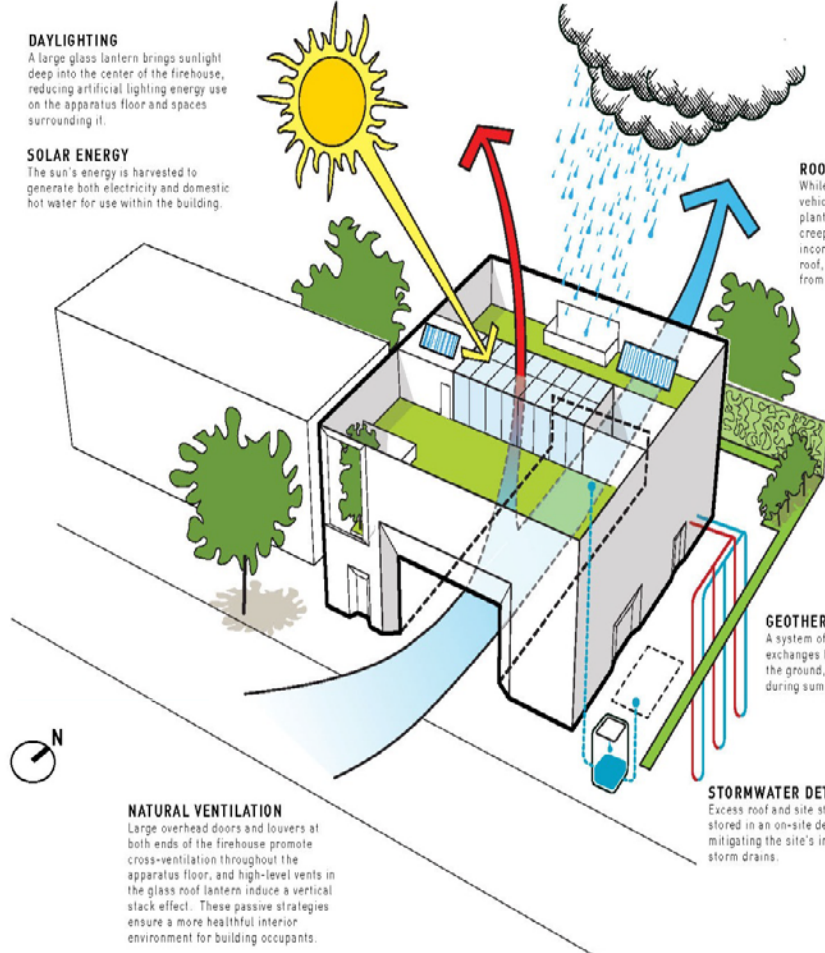
Simulated.
Not Actual.

DAYLIGHTING

A large glass lantern brings sunlight deep into the center of the firehouse, reducing artificial lighting energy use on the apparatus floor and spaces surrounding it.

SOLAR ENERGY

The sun's energy is harvested to generate both electricity and domestic hot water for use within the building.



ROOF & PERIMETER PLANTING

While much of the site is paved to facilitate vehicle maneuvering, the edges are continuously planted to absorb runoff and to allow vines to creep up the perimeter fence. Plantings are also incorporated within terraces and on the green roof, creating strong connections to the outdoors from all occupied levels of the building.

GEOHERMAL ENERGY

A system of closed geothermal loops exchanges heat between the building and the ground, keeping interior spaces cooler during summer and warmer during winter.

STORMWATER DETENTION

Excess roof and site stormwater runoff is stored in an on-site detention tank, mitigating the site's impact on the city's storm drains.

NATURAL VENTILATION

Large overhead doors and louvers at both ends of the firehouse promote cross-ventilation throughout the apparatus floor, and high-level vents in the glass roof lantern induce a vertical stack effect. These passive strategies ensure a more healthful interior environment for building occupants.

RESILIENCY

*Resiliency means preparing the City's public buildings and infrastructure to **maintain service, and rapidly rebound from extreme events**—needs Superstorm Sandy demonstrated... Design can not only make us safe, but can also build communities, enhance neighborhoods and invite investment. Well-coordinated tactics that can evolve and adapt over time will achieve robust buildings, infrastructure, neighborhoods and services.*

— Extracted from Design and Construction Excellence 2.0
Guiding Principles, March 2016



Manhattan Districts 1/2/5 Garage and Salt Shed

Dattner Architects

Resiliency: Bolster community
capacity to adapt

HEALTHY LIVING

With these Guiding Principles “DDC widens its lens, encouraging its design teams to think about aspects in the built environment that aid mental health.” Additionally, we continue to support “design that can encourage — and even make pleasurable — active lifestyles.”

— Extracted from Design and Construction Excellence 2.0
Guiding Principles, March 2016



Architecture & Engineering

Eric Boorstyn, AIA
Associate Commissioner

FMS ID Number	Contract/ Firm Type	No. of Full-Time Technical Staff	Category of Contract to be Awarded	Total Not to Exceed Amount	No. of Selected Firms
HWDR04C	Micro	1 to 5	Architectural, engineering and construction-related services for construction project with an estimated construction value to \$5,000,000.	\$4 Million	10
HWDR045	Small	6 to 20	Architectural, engineering and construction-related services for construction projects with an estimated construction value between \$2,000,000 and \$15,000,000.	\$6 Million	10
HWDR04M	Medium	21 to 50	Architectural, engineering and construction-related services for construction projects with an estimated construction value between \$10,000,000 and \$35,000,000.	\$8 Million	3
HWDR04L	Large	51 or more	Architectural, engineering and construction-related services for construction projects with an estimated construction value between \$25,000,000 and \$35,000,000.	\$10 Million	3

Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Micro	1-5	<ul style="list-style-type: none"> Any project requiring partial CM staffing Any project requiring consulting services 	\$5 Million	7
Small	6-50	<ul style="list-style-type: none"> Projects with estimated construction cost up to \$5 Million requiring comprehensive CM services Any project requiring consulting services 	\$12 Million	7
Medium	51-125	<ul style="list-style-type: none"> Projects with estimated construction cost between \$5 Million and \$30 Million requiring comprehensive CM services Any project requiring consulting services 	\$15 Million	5
Large	126+	<ul style="list-style-type: none"> Projects with estimated construction cost above \$30 Million requiring comprehensive CM services Any project requiring consulting services 	\$25 Million	5

FMS ID Number	Contract/ Firm Type	No. of Full-Time Technical Staff	Category of Contract to be Awarded	Total Not to Exceed Amount	No. of Selected Firms
RQCM_MIC	Micro	1 to 5	MEP Engineering and construction-related services for construction projects with an estimated construction value up to \$500,000.	\$4.5 Million	4
RQCM_SM	Small	6 to 20	MEP Engineering and construction-related services for construction projects with an estimated construction value between \$500,000 and \$2,000,000.	\$7.5 Million	3
RQCM_MED	Medium	21 to 50	MEP Engineering and construction-related services for construction projects with an estimated construction value between \$2,000,000 and \$5,000,000.	\$10 Million	2
RQCM_LRG	Large	51 or more	MEP Engineering and construction-related services for construction projects with an estimated construction value between \$5,000,000 and \$15,000,000.	\$10 Million	2

Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Micro	1-5	Special Inspections and construction-related services for projects with an estimated construction value up to \$5,000,000.	\$2 Million	2
Small	6-20	Special Inspections and construction-related services for projects with an estimated construction value between \$5,000,000 and \$10,000,000.	\$2 Million	2
Medium	21-50	Special Inspections and construction-related services for projects with an estimated construction value between \$10,000,000 and \$35,000,000.	\$5 Million	2
Large	51+	Special Inspections and construction-related services for projects with an estimated construction value above \$35,000,000.	\$5 Million	1

Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Micro	1-5	Building Commissioning and construction-related services for projects with an estimated construction value up to \$5,000,000.	\$2 Million	2
Small	6-20	Building Commissioning and construction-related services for projects with an estimated construction value between \$5,000,000 and \$10,000,000.	\$2 Million	2
Medium	21-50	Building Commissioning and construction-related services for projects with an estimated construction value between \$10,000,000 and \$35,000,000.	\$5 Million	2
Large	51+	Building Commissioning and construction-related services for projects with an estimated construction value above \$35,000,000.	\$5 Million	1

Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Small	1-5	Structural Engineering and construction-related services for projects with an estimated construction value up to \$1,000,000.	\$2 Million	2
Medium	6-30	Structural Engineering and construction-related services for projects with an estimated construction value between \$1,000,000 and \$5,000,000.	\$5 Million	2
Large	30+	Structural Engineering and construction-related services for projects with an estimated construction value above \$5,000,000.	\$5 Million	1

Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Small	1-5	Landscape Design and construction-related services for projects with an estimated construction value up to \$1,000,000.	\$2 Million	2
Medium	6-30	Landscape Design and construction-related services for projects with an estimated construction value between \$1,000,000 and \$5,000,000.	\$5 Million	2
Large	30+	Landscape Design and construction-related services for projects with an estimated construction value above \$5,000,000.	\$5 Million	1

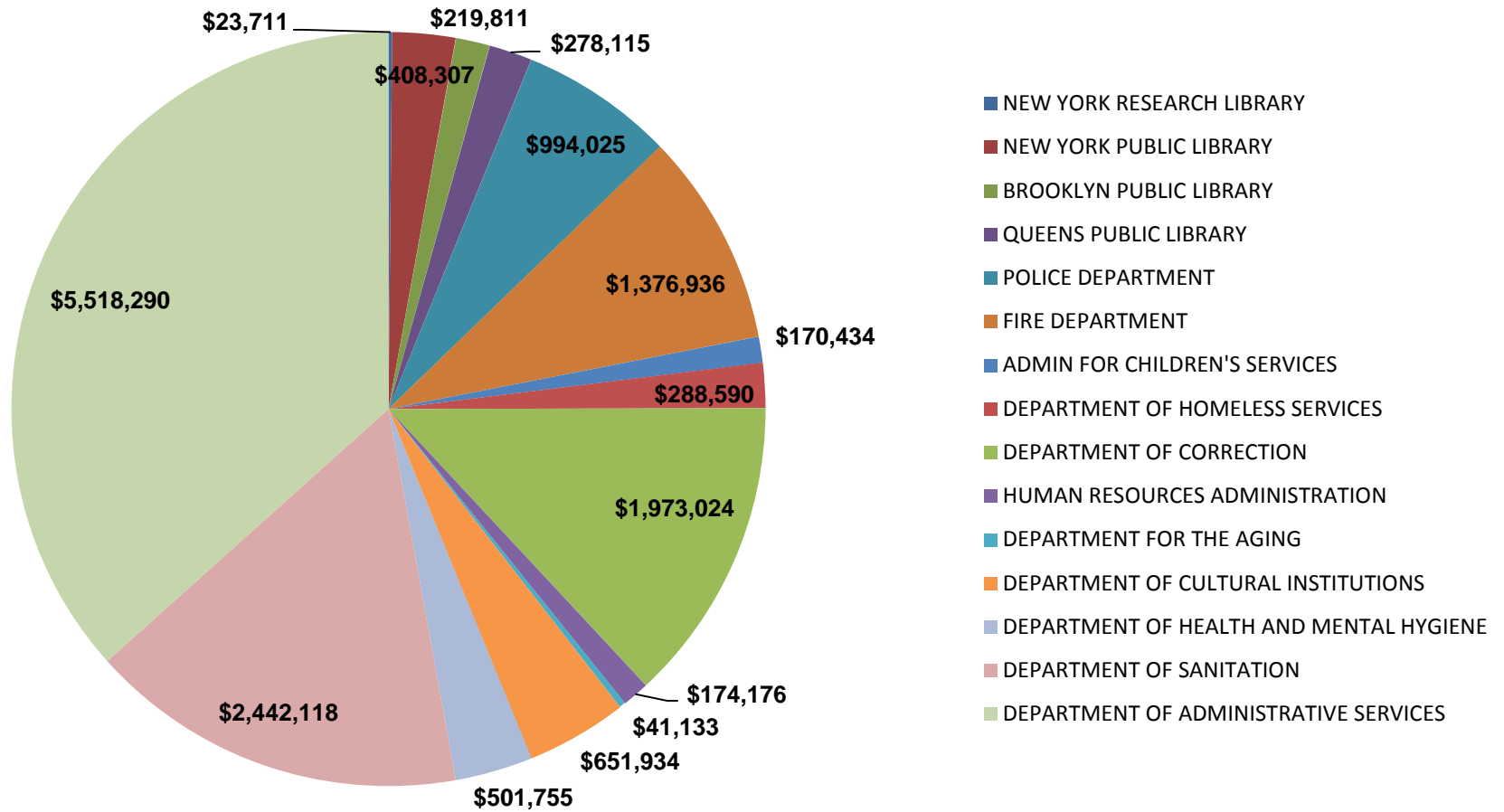
Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Small	1-5	Historic Preservation Design and construction-related services for projects with an estimated construction value up to \$1,000,000.	\$2 Million	2
Medium	6-30	Historic Preservation Design and construction-related services for projects with an estimated construction value between \$1,000,000 and \$5,000,000.	\$5 Million	2
Large	30+	Historic Preservation Design and construction-related services for projects with an estimated construction value above \$5,000,000.	\$5 Million	1

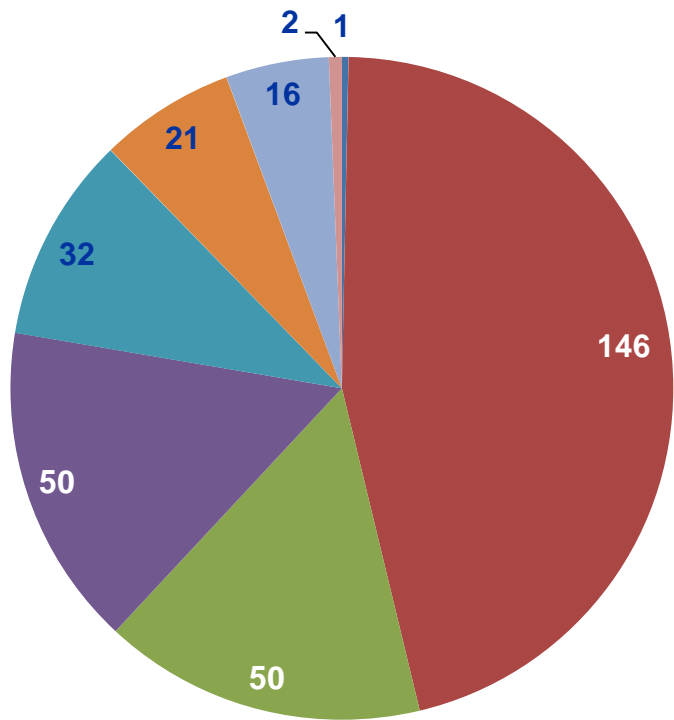
Contract/ Firm Type	No. of Full-Time Technical Staff	Construction Value Ranges	Value of Fees	No. of Contracts
Small	1-5	Exterior Envelope Restoration design and construction-related services for projects with an estimated construction value up to \$1,000,000.	\$2 Million	2
Medium	6-30	Exterior Envelope Restoration design and construction-related services for projects with an estimated construction value between \$1,000,000 and \$5,000,000.	\$5 Million	2
Large	30+	Exterior Envelope Restoration design and construction-related services for projects with an estimated construction value above \$5,000,000.	\$5 Million	1

Exterior Envelope Restoration Contracts

Construction Management Services

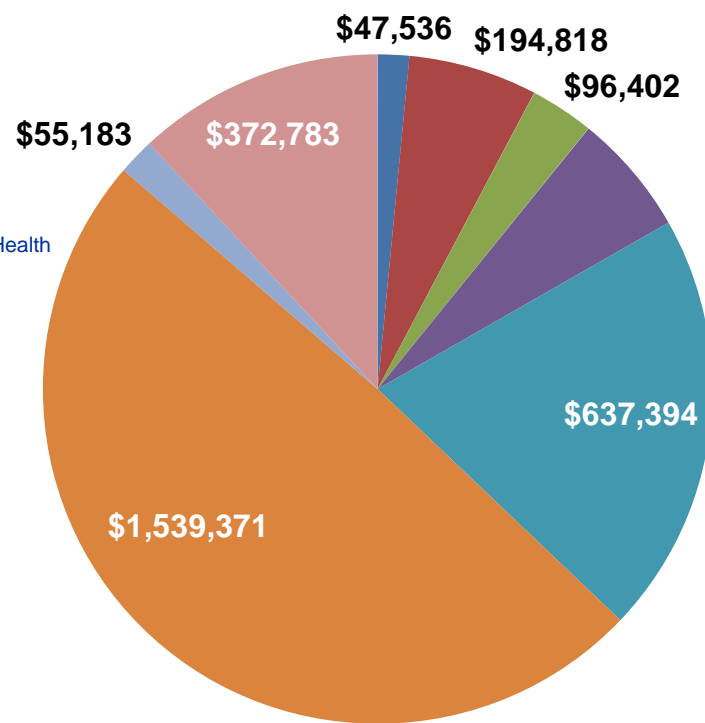
Christine Flaherty, CMAA
Associate Commissioner



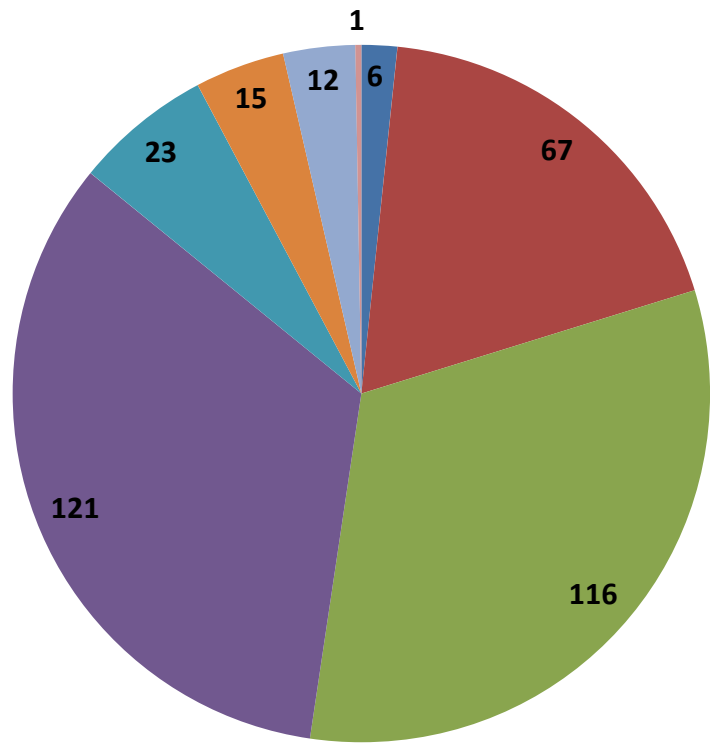


Total 318

- Executive Projects
- Libraries
- Human Services/DCAS/OneNYC/Health
- Cultural/Parks/Pass Through
- Sanitation/Transportation/DEP
- Corrections/Courts
- Fire/Police
- Build it Back

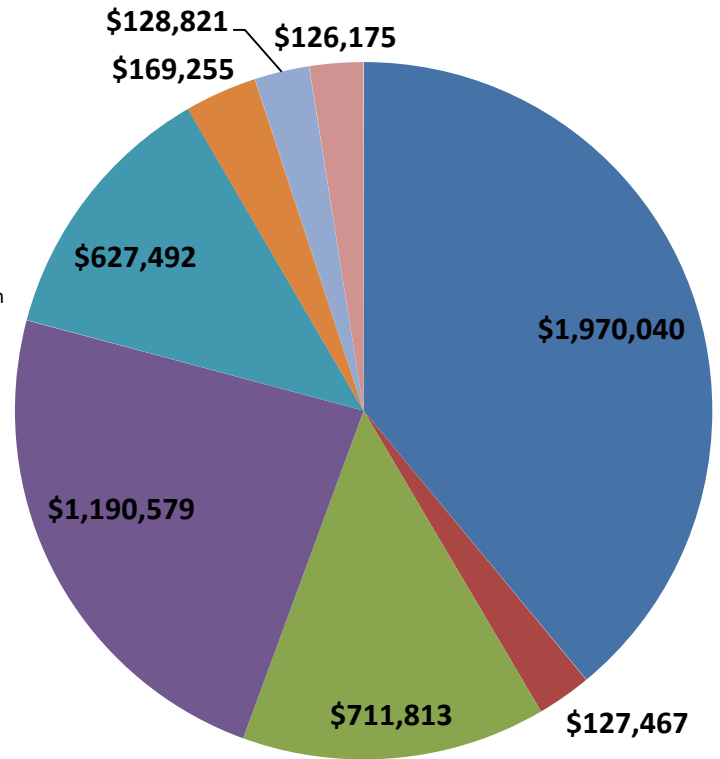


Total \$3.13B



Total 361

- Executive Projects
- Libraries
- Human Services/DCAS/OneNYC/Health
- Cultural/Parks/Pass Through
- Sanitation/Transportation/DEP
- Corrections/Courts
- Fire/Police
- Build it Back



Total \$5.05B

Services	Firms Awarded	Total Values Awarded to date Contract Duration
Construction Management	<ol style="list-style-type: none"> 1. Jacobs 2. LiRo 3. Hill International 4. HAKS 	\$57.2 M Dec. 2012-Dec. 2016
Roof/Façade Designs	<ol style="list-style-type: none"> 1. Acheson Doyle 2. Thornton Tomasetti 3. Hoffman Architects 	\$2.7M Dec. 2014-Dec. 2017
Commissioning	<ol style="list-style-type: none"> 1. Horizon Engineering 2. Dome Tech/NORESCO 3. Jacobs 4. Eneractive Solutions 	\$533K Dec. 2015-Dec. 2018
Special Inspections and Laboratory Testing	<ol style="list-style-type: none"> 1. HAKS 2. Tectonic 3. Universal 	\$6.9 M Aug. 2013 – Aug. 2016
MEP Engineering	<ol style="list-style-type: none"> 1. Goldman Copeland 2. Tetra Tech 3. Joseph Loring 4. Syska Hennessy 5. WSP USA 	\$23.1 M April 2015 – April 2017
Historic Preservation	<ol style="list-style-type: none"> 1. Platt Byard 2. CTA Architects 	\$1.0M Aug. 2015-Aug.2018

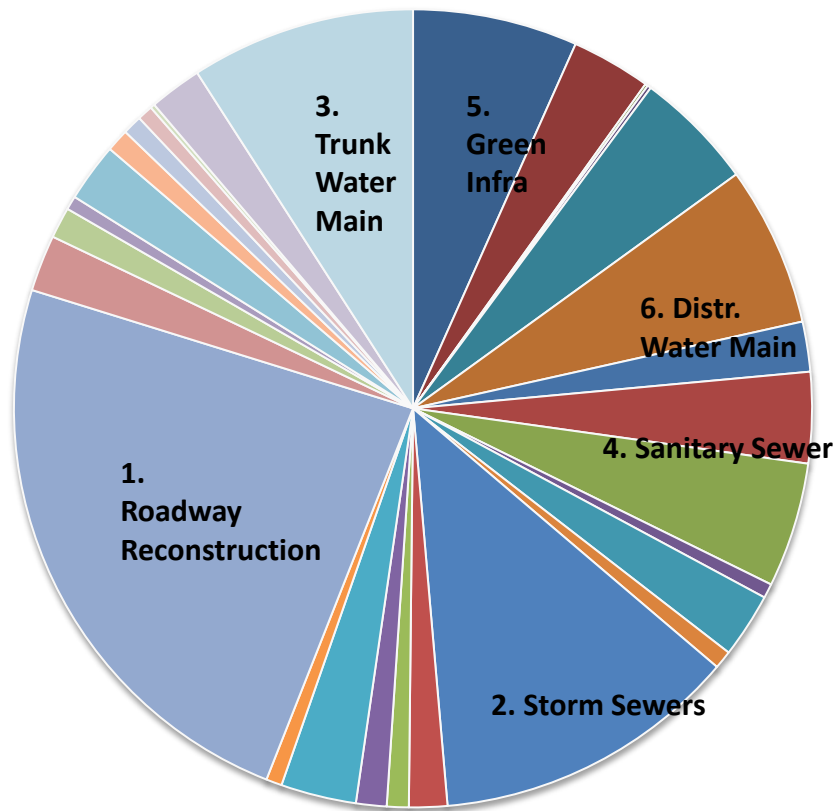
Current Consultant Contracts

CONTRACT TYPE	PROGRAM UNIT/CLIENT AGENCY	SCALE (\$M)
DESIGN & CM	SANITATION & TRANSPORTATION	\$500+
DESIGN & CM	CORRECTIONS	\$50+
DESIGN & CM	CULTURALS & PARKS	\$60+
DESIGN & CM	POLICE, FIRE & COURTS	\$100+
DESIGN	LIBRARIES – NYPL, BPL & QPL	\$25+
DESIGN	DEPARTMENT OF HOMELESS SERVICES & DCAS/HUMAN SERVICES	\$15
DESIGN	HEALTH	\$10
DESIGN & CM	ADMINISTRATION OF CHILDREN’S SERVICES	\$75+
DESIGN & CM	DEP	\$50+
DESIGN	ONENYC	\$5

An aerial photograph of Times Square in New York City, featuring the iconic Times Square Ball at the center. The image is overlaid with a semi-transparent blue and orange gradient. The text "Engineering Consultant Engagement Opportunities" is prominently displayed in white, bold, sans-serif font across the middle of the image.

Engineering Consultant Engagement Opportunities

Eric Macfarlane, PE
Deputy Commissioner, Infrastructure



- 3rd Water Tunnel Project
- Catch Basins
- Distribution water mains
- Green Infra
- Infra Development
- Milling
- New Storm sewers
- Pedestrian ramps
- Plaza
- Roadway Reconstruction
- School Safety Program
- Sewer rehabilitation
- South Queens Flood Mitigation
- Step Street
- Trunk Water Main
- Bluebelt project
- Combined Sewers
- Emerg repair
- HIGH LEVEL STORM SEWRS
- Intersection Improvement
- New Sanitary sewers
- Pedestrian Bridge
- Pedestrian Safety Impr
- Retaining Wall
- Sanitary sewer reconstruction
- Select Bus Service impr
- Sidewalk Maintenance
- Special Project
- Streetscape

2017- 2025

325 New Design Projects

Est. Construction value = \$ 4.4 B

In-House Engineering Design

198 Projects (61%) – Est. Construction value = \$ 2.6 B

Engineering Consultants Design

127 Projects (39%) – Est. Construction value = \$ 1.8 B

Contract Type	No. of Contracts	MWBE Requirement	Award Criteria	Capacity	T/O Assignment	Balance Remaining Tru FY18
Small	3	18%	By Boro. < \$10 m	\$ 15 mil	\$ 7 mil	\$ 8 mil
Large	3	18%	By Boro. >\$10 m	\$ 24 MIL	\$ 18 mil	\$ 6 mil
RLA	3	18%	By Boro.	\$ 15 mil	\$ 4 mil	\$ 11 mil
Contract Type	No. of Contracts	MWBE Requirement	Award Criteria	Capacity	T/O Assignment	Balance Remaining Tru FY18
Small	10	18%	Mini-RFP <\$ 8m	\$ 80 mil	\$ 2 mil	\$ 78 mil
Large	10	18%	Mini-RFP >\$ 8m	\$ 176 mil	\$ 141 mil	\$ 35 mil
RLA	5	20%	Grand Total	\$ 335 mil	\$ 174 mil	\$ 161 mil
			Total	\$ 281 mil	\$ 145 mil	\$ 136 mil

FMS ID Number	Contract/ Firm Type	No. of Full-Time Technical Staff	Category of Contract to be Awarded	Total Not to Exceed Amount	No. of Selected Firms
HWDR04C	Micro	1 to 5	Engineering Design Services for non-complex infrastructure projects with estimated design fee of \$300,000 or less per Task Order	\$1 Million	5
HWDR04S	Small	6 to 50	Engineering Design Services for non-complex infrastructure projects with estimated design fee of more than \$300,000 and up to \$700,000 per Task Order Engineering Design Services for complex Infrastructure projects.	\$3 Million	10
HWDR04M	Medium	51 to 100	Engineering Design Services for non-complex infrastructure projects with estimated design fee of more than \$700,000 and up to \$1,500,000 per Task Order Engineering Design Services for complex Infrastructure projects.	\$10 Million	10

Types of Project	Task Order Awardees	How Awarded
Non-Complex	All firms (Micro, Small, Medium, Large)	Rotation only within specified category (based on estimated design fee)
Complex	Small, Medium, and Large only	Mini-RFP among all Small, Medium, and Large Firms

In-Progress 1 year

Contract Type	No. of Staff	No. of Contracts	MWBE Participation	Capacity	T/O Assignment	Balance Remaining
*Small	Less than 60	10	15%	\$ 150 mil	\$ 72 mil	\$ 78 mil
**Large	60 or more	10	15%	\$ 150 mil	\$ 100 mil	\$ 50 mil
			Total	\$ 300 mil	\$ 172 mil	\$128 mil

New 3 years

Procurements	No. of Staff	Contract Type	No. of Contracts &Total Value	MWBE participation	Category of contract to be awarded
1	1 to 5	Micro	5 @ \$5M ea.	TBD	Est. Fee is less than \$500K
2	6 to 50	Small	8 @ \$12M ea.	17%	Est. Constr. Cost up to \$10 mil
3	51 to 100	Medium	7 @ \$15M ea.	20%	Est. Constr. \$5 mil to \$10 mil
4	101 or more	Large	10 @ \$20M ea.	30%	Est. Constr. Cost More than \$10 mil

Location Borough	Lead Project ID	Project Description	Project Type	Current Contract Status
Queens	HWQ100SBS	WOODHAVEN BLVD SBS	Select Bus Service + DEP Infrastructure	Pre-Preliminary Design
Bronx	HWX421AW	THROGS NECK - PHASE III	Roadway Reconstruction + DEP Infrastructure	Pre-Preliminary Design
Bronx	HWXP136C	GRAND CONCOURSE PH4	Roadway Reconstruction + DEP Infrastructure	Pre-Preliminary Design
Brooklyn	HWK700B	COLUMBIA STREET	Roadway Reconstruction + DEP Infrastructure	Pre-Preliminary Design
Queens	HBPED800Q	TIDEGATE BRIDGE	Flushing Meadows Park Bridge	Pre-Preliminary Design
Queens	P-415PAS2	PASSARELLE PEDESTRIAN BRIDGE	Flushing Meadows Park Bridge	Pre-Preliminary Design

Challenge

Engage the best engineering design and CM Firms who have not traditionally sought City work due to the limitations of the procurement process and the perceived lack of interest in design quality and improved construction management practices.

Solution

Modify the procurement process by eliminating fee competition and emphasizing qualifications and expertise in selecting consultants.

Examples that focus on projects types under consideration

Depth of qualified staff

Available resources to support projects and maintain schedules

Relevant experience and competence to perform DDC projects

Ability to provide technical support services during construction

Strategic approach

Project management objectives : budget , schedule , safety

Critical milestones and constructability issues

Design organization: project team experiences

REI organization: project team experiences

Innovative proposals or concepts of relevance

Financial resources

Ability to meet expenses pending City reimbursement

Program Management

Kevin Donnelly, PE
Deputy Commissioner

Construction Quality

Inspection & Testing Services

5 yr terms, \$1.5

Recently renewed. Good for 3 years

Surveying

Land Surveying

2 consultants/borough

\$4.5M 3 yr base contract, 1 yr \$2M renewal

Alternating assignments

RFP late summer

Environmental and Geotechnical

Environmental Planning (EAS)

Procurement in final stages of negotiation

3 contracts for 4 yrs

Environmental Investigation & Design

Next Procurement FY18

Geotechnical

Next Procurement FY18

Project Controls

Cost & Risk Management Support

2 Contracts

\$2M, 2-year

RFP Fall 2016

Project Controls Support

2 Contracts

\$3M, 2-year

RFP Fall 2016

Auditing Support

Engineering Audit Support

Under evaluation pending funding



**Department of
Design and
Construction**