

INFRASTRUCTURE DESIGN STANDARDS

**STANDARD HIGHWAY
SPECIFICATIONS
VOLUMES I & II**

February 1, 2009

**ADDENDUM No. 1
October 15, 2010**

NYC



THE CITY OF NEW YORK
DEPARTMENT OF TRANSPORTATION

ATTACH TO CONTRACT DOCUMENTS

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
INFRASTRUCTURE DIVISION
BUREAU OF DESIGN

PROJECT ID.

Together With All Work Incidental Thereto
BOROUGH OF
CITY OF NEW YORK

ADDENDUM NO. 1

DATED: October 15, 2010

THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

The New York City Department of Transportation Standard Highway Specifications, dated February 1, 2009, (which include, but are not limited to, "General Conditions", "Basic Materials of Construction", "Combined Materials of Construction", "Construction Methods", "Inspection and Testing of Materials, Adjustments for Deficiencies, and Maintenance", and "Supplemental Construction Methods"), as modified by addenda issued prior to the opening of bids, shall apply to and become a part of the contract.

All references contained herein are to the New York City Department of Transportation, Standard Highway Specifications, dated February 1, 2009. The said Specifications are hereby revised. Included hereunder are the following REVISIONS:

1. Amendments to Standard Highway Specifications, Volume I
2. Amendments to Standard Highway Specifications, Volume II

1. AMENDMENTS TO STANDARD HIGHWAY SPECIFICATIONS, VOLUME I

The following amendments to the Contract Requirements shall become a part of and apply to the contract:

[Added 02-01-2009]

1. Refer to Page 238, **Subsection 4.16.4. (C) MULCH**;
Add the following new paragraph:

"Shredded bark mulch shall be applied to the surface of tree pit areas, as shown on the Contract Drawings and as directed by the Engineer. Mulch shall be applied to a uniform depth of three (3) to four (4) inches over the tree pit, and shall be so distributed as to create a smooth level cover over the exposed soil."

2. Refer to Page 243, **Subsection 4.16.5. (D) 7. Pruning**, second line of the paragraph;
Change the word "shaprt" to "sharp" in the second line of the paragraph.

3. Refer to Page 249, **Subsection 4.17.4. (I)**;
Add the following new **Subsection 4.17.4. (J)**:

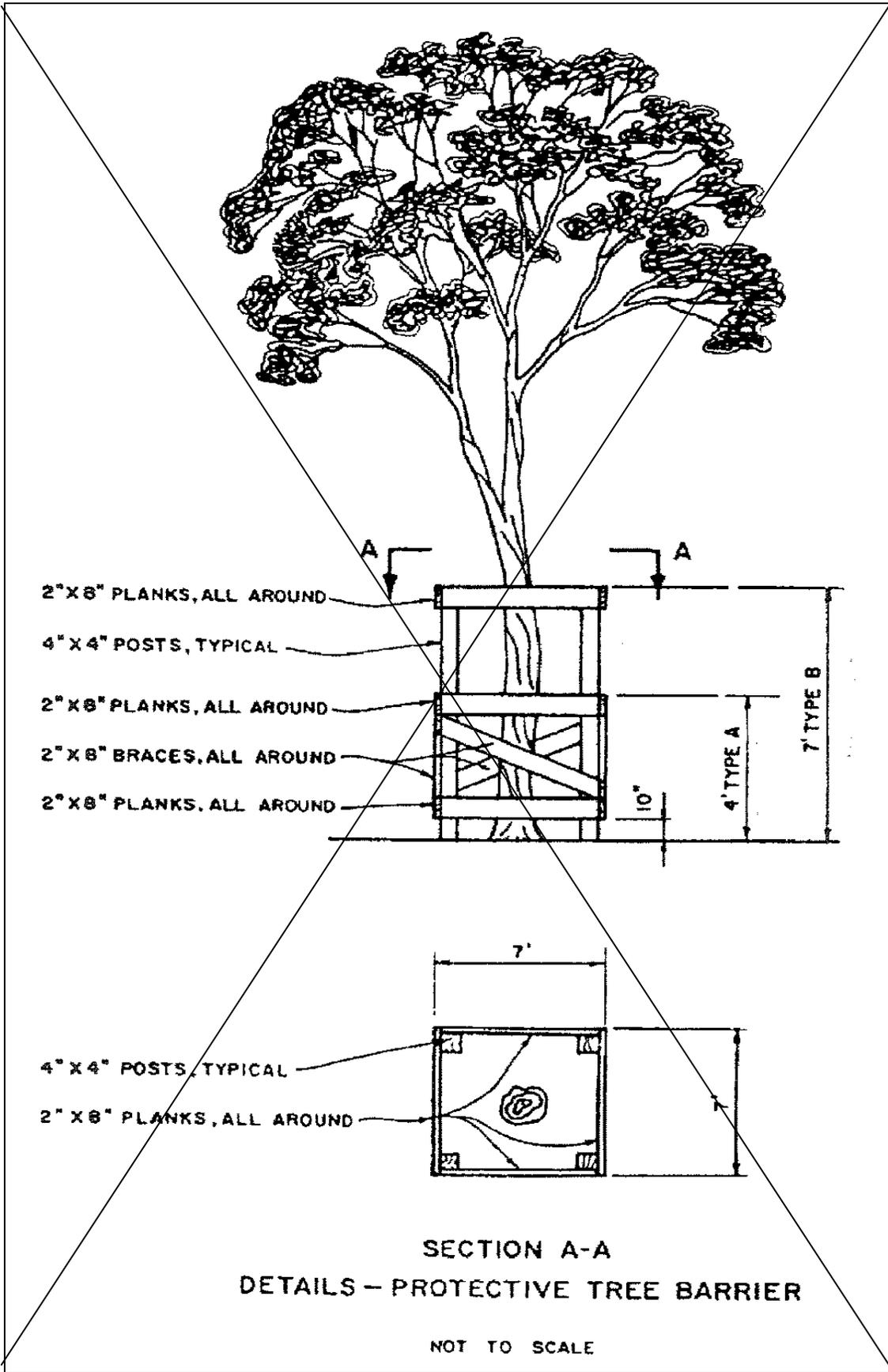
"(J) MULCH

Shredded bark mulch shall be a natural forest product of 98% bark containing less than 2% wood or other debris. It shall be of White or Red Fir and/or Pine bark of a uniform grade with no additives or any other treatment. Size of bark shall be from 5/8" to 1-1/4". The pH factor should range from 5.8 to 6.2. Shredded bark may also be used. Samples shall be submitted to and approved by the Engineer prior to use.

Shredded bark mulch shall be applied to the surface of the beds, as shown on the Contract Drawings or as directed by the Engineer. Mulch shall be applied to a uniform depth of three (3) to four (4) inches over shrub bed areas and two (2) to three (3) inches over groundcover beds, and shall be so distributed as to create a smooth level cover over the exposed soil. Plants shall not be covered."

4. Refer to Page 263, **Subsection 4.22.4.**, first paragraph, second and third lines;
Delete in the first paragraph, the second and third lines beginning with the words "on the New York City Department of Transportation's Standard Details of Construction . . ." in their entirety;
Substitute the following text: "on the following sketch and as directed by the Engineer."

5. Refer to Page 265;
Delete in words "(NO TEXT ON THIS PAGE)";
Substitute the sketch contained on the following page A1-1b.



[Added 03-23-2009]

6. Refer to Page 13, **Subsection 1.06.21. (F)**, first paragraph, second line;
Change the words "require a field office, material sheds or watchmen" to read "require a field office or material sheds".
7. Refer to Page 36, **Subsection 1.06.44. (E)**, first paragraph, eight and ninth lines;
Change the words "He shall provide a sufficient number of watchmen and take all necessary and legal precautions" to read "He shall take all necessary and legal precautions".
8. Refer to Page 249, **Subsection 4.17.4. (J) MULCH**, as added by Article 3 on Page A1-1a of this Addendum, and Page 238, **Subsection 4.16.4. (C) MULCH**;
Change the first sentence to read: "Shredded bark mulch shall be a natural forest product of at least 98% bark containing less than 2% wood or other debris."

[Added 09-09-2009]

9. Refer to Page 213, **Subsection 4.11.7. (B) ROCK EXCAVATION**;
Change the title of **Subsection 4.11.7. (B)** from "ROCK EXCAVATION" to "ROCK EXCAVATION IN STREETS, TRENCHES AND STRUCTURES".
10. Refer to Page 215, **Subsection 4.11.8. (B) ROCK EXCAVATION**;
Change the title of **Subsection 4.11.8. (B)** from "ROCK EXCAVATION" to "ROCK EXCAVATION IN STREETS, TRENCHES AND STRUCTURES".

[Added 10-09-2009]

11. Refer to Page 99, **Subsection 3.01.3. (A) GENERAL**;
Delete **Subsection 3.01.3. (A)**, in its entirety;
Substitute the following revised **Subsection 3.01.3 (A)**:

"(A) GENERAL. The Contractor shall obtain Department approval of materials before any material is mixed at any bituminous mixing plants. Approval of sources of supply of the coarse and fine mineral aggregates shall be obtained from the Department's Quality Assurance and Construction Safety Bureau.

All laboratories, asphalt mix designs, all vendors including bituminous (asphalt) plants proposed by the Contractor shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the pre-construction meeting or from the Engineer. The minimum requirement for approval of the proposed plant is that it must be on the New York State Department of Transportation (NYSDOT) approved list for the current construction season."

12. Refer to Page 99, **Subsection 3.01.3. (B) COMPOSITION OF MIXTURES**, fifth paragraph, second line;
Change the word "Unit" to "and Construction Safety Bureau."
13. Refer to Page 101, third paragraph, second line;
Insert between the words "... shall be delivered to the Department's Quality Assurance" and "laboratory..." the words "and Construction Safety".

14. Refer to Page 114, **Subsection 3.05.4.**, first paragraph;
Delete the first paragraph in its entirety;
Substitute the following text as the first paragraph:

“3.05.4. CONTRACTOR’S FORMULA. All concrete mix designs shall be subject to approval by DDC’s Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their “MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL”. Copies of this protocol may be obtained at the pre-construction meeting or from the Engineer. Before the Contractor begins to manufacture concrete, he shall secure DDC’s QACS approval of the mix design he proposes to use. He shall submit for this purpose a statement, in writing, of the sources of all ingredient materials, the type and brand of the cement and the number of pounds of each of the materials in a saturated surface-dry condition making up one (1) cubic yard of concrete. The range of water-cement ratios within which the concrete will be manufactured and the method of mixing to be employed shall also be stated. The mix design submittal shall include gradation of aggregates, specific gravities of ingredients, unit weight, mix proportion for each batch (a minimum of 4 batches except in case of precast plants where one specific mix may be proposed), compressive strength test results for each mix at 7 days, 28 days (high early strength mixes may require 6 hrs, 24 hrs, 3 days and shrinkage test as per the requirements), and graphical representation of strength vs. W/C projected in hours/days.”

15. Refer to Page 115, **Subsection 3.05.4.**, first paragraph at the top of the page, last sentence beginning with the words: **“This data may be in tabular or graphical form ...”**;
Delete the last sentence beginning with the words: **“This data may be in tabular or graphical form ...”**, in its entirety;
Substitute the following sentence:

“This data shall be presented in both tabular and graphical form for those various ambient temperatures with a maximum setting period of seven (7) days for Class B-32 concrete or seventy-two (72) hours for High-Early Strength Concrete.”

16. Refer to Page 119, **Subsection 3.05.6. (A) ACCEPTANCE**;
Delete **Subsection 3.05.6. (A) ACCEPTANCE**, in its entirety;
Substitute the following:

“(A) ACCEPTANCE

Each Portland cement concrete batching plant shall be subject to approval by DDC’s Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their ‘MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL’. Copies of this protocol may be obtained at the pre-construction meeting or from the Engineer. The minimum requirement for approval is that the proposed Portland cement concrete batching plant must be on the New York State Department of Transportation (NYSDOT) approved list for the current construction season.

The minimum requirement for approval of a pre-cast concrete plant is that the proposed plant must be on the NYSDOT approved list. A waiver for this requirement may be granted by the DDC’s Quality Assurance and Construction Safety (QACS) Director for special products that no NYSDOT approved plant is capable of producing.

Each Portland cement concrete batching plant shall also be subject to auditing and approval of the DDC’s Director of Quality Assurance and Construction Safety (QACS). The Director of QACS may at any time discontinue the use of any previously approved equipment if non-conformance with the specifications result during the progress of the work. When the Director of QACS discontinues the use of the plant, production will not be acceptable for Department work until corrective measures satisfactory to the Director are carried out.”

17. Refer to Page 148, **Subsection 4.02.4. CONSTRUCTION METHODS**, Article (B) CERTIFICATION OF LABORATORY AND TECHNICIANS; Delete Article (B), in its entirety; Substitute the following revised Article (B):

“(B) CERTIFICATION OF LABORATORY AND TECHNICIANS

The testing laboratory used by the Contractor for testing core samples must be independent of those used at the plant and job site during placement of asphalt. All proposed testing laboratories shall be duly licensed by the NYC Department of Buildings. Only laboratories approved by the Director of DDC QACS shall be used for all work performed and technicians qualified by the DDC QACS Bureau shall be used for field work. Laboratory technicians used for field work **who are not applying for renewal** of the QACS Qualification cards (new entrants) shall have current NICET Level 2 certification. Field technicians must present their current QACS Qualification Cards if so requested by authorized DDC staff. Staff used for laboratory testing or plant work must have current NICET Level 2 or NYS DOT QA/QC certification card as administered by SUNY Alfred State College. Exceptions granted to any of the above requirements must be in writing by the Director of QACS.”

18. Refer to Page 268, **Subsection 5.01.1. RESPONSIBILITY FOR TESTING**, Article A, first paragraph; Insert the following text between the first and second sentences of the first paragraph:

“All laboratories shall be subject to approval by DDC’s Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their ‘MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL’. Copies of this protocol may be obtained at the pre-construction meeting or from the Engineer. The minimum requirement for approval is that the laboratory must have the current AMRL/AASHTO R-18 accreditation in the category of service proposed and must be currently licensed by the NYC Department of Buildings (DOB). ”

19. Refer to Pages 268 and 269, **Subsection 5.01.1. RESPONSIBILITY FOR TESTING**, Articles B and C; Change the abbreviation “QA” to “QACS” wherever it is shown.

20. Refer to Page 276, **Subsection 5.02.2. METHODS**, Article (C), third paragraph; Delete the third paragraph beginning with the words “Cylinders will be transported by the Contractor...”, in its entirety; Substitute the following revised paragraph:

“Cylinders are to be delivered by the Contractor to a designated area near 30-30 Thomson Ave, Long Island City, New York, or where otherwise directed within the City of New York, within two (2) days after molding, where they will be properly stored and cured until the date of test, and tested, by others, upon removal from the curing room.”

[Added 12-11-2009]

21. Refer to TABLE OF CONTENTS, Page iii, **Subsection 1.06.48. (R) PAINTING CURBS YELLOW ADJACENT TO BUS STOPS**; Delete the words “(R) PAINTING CURBS YELLOW ADJACENT TO BUS STOPS” and substitute “(R) NO TEXT.”
22. Refer to Page 45, **Subsection 1.06.48. (R) PAINTING CURBS YELLOW ADJACENT TO BUS STOPS**; Delete the words “(R) PAINTING CURBS YELLOW ADJACENT TO BUS STOPS” and substitute “(R) NO TEXT.”

23. Refer to Page 199, **Subsection 4.09.4.(K) PAINTING**, second paragraph;
Delete the second paragraph, beginning with the words "In addition, curbs at all bus stops shall be painted . . .", in its entirety.
24. Refer to Page 241, **Subsection 4.16.5.(D)1. Excavation for Tree Pits**, second paragraph, third line;
Insert between the words ". . . No. H-1046" and "and the items provided . . ." the following text: ", unless otherwise shown on the Contract Drawings,"

[Added 02-04-2010]

25. Refer to Page 164, **Subsection 4.04.3. MATERIALS**, second paragraph, 2nd sentence;
Add the following sentence:

"For the High Early Strength Concrete, the Contractor shall be required to substitute 20% of the weight of Portland cement with fly ash, Class F, on a pound for pound basis."

[Added 03-03-2010]

26. Refer to Page 21, **Subsection 1.06.25. Schedule of Operations**, fifth paragraph, 1st sentence;
Delete the fifth paragraph, in its entirety;
Substitute the following three paragraphs:

"All Schedules of Operations as required under this Article and Progress Schedules as required under **Article 9** of the Standard Construction Contract shall be submitted in the form of a bar chart using "Microsoft Project 2003", or in an approved equivalent program which shall be directly and fully translatable into Microsoft Project 2003 format. Each bar chart shall show the order and interdependence of all activities necessary to complete the work and the sequence in which activity is to be accomplished as planned by the Contractor and in accordance with all subcontractors or suppliers whose work shall be shown on the bar chart. The Contractor shall submit the bar chart for the Engineer's review and revise it, if required, until approved by the Engineer.

The Schedule of Operations as required under this Article shall be submitted within seven (7) working days of the initial Pre-Construction Meeting and each bar in the Schedule of Operations chart shall show dates the Contractor plans to start and complete each construction activity after the initial Pre-Construction Meeting.

In addition, within fifteen (15) days after the Notice to Proceed, the Contractor shall submit for approval to the Engineer, along with the proposed progress schedule required under **Article 9** of the Contract, the following: a submittal schedule log in Excel format (tied to construction schedule) indicating a description of and the scheduled submission dates for all required submittals, shop drawings, approval requests, design mixes, reports, samples, etc., as required by the specifications and terms of this Contract."

27. Refer to Page 36, **Subsection 1.06.44.(E) BARRICADES, SIGNS AND OTHER PROTECTIVE DEVICES**, first paragraph, 6th and 7th lines;
Delete the words "plus the New York State Supplement (NYS Supplement)";
Substitute the following text: ", 2009 or latest Edition".

[Added 04-30-2010]

28. Refer to Page 15, **Subsection 1.06.23. (C) CONFORMANCE WITH FEDERAL, STATE AND CITY AGENCIES;**

Add the following to **Subsection 1.06.23. (C)** :

“The Contractor is notified that all persons constructing or operating a large article, machine, device, equipment, such as a rock crusher, or other contrivance or facility capable of causing or permitting emission of dust into the atmosphere at a construction site shall keep on site a document* detailing such equipment . Information provided on this document shall include the ownership, location, design, make and model, operation, i.e. how does it operate, as well as any other pertinent information requested by the Department. **In addition, the measures utilized to reduce dust emissions resulting from the use of these items as set forth in 15 RCNY 13-01 et seq. shall be clearly outlined. This document shall be attached as an addendum sheet to the Noise Mitigation Plan prepared pursuant to Section 24-220 of the Noise Code.**”

* Use latest version which can be found on the DEP Website at:
http://www.nyc.gov/html/dep/pdf/dust_mitigation_form.pdf”

[Added 09-15-2010]

29. Refer to Page 10, **Subsection 1.06.19. Duties of the Contractor;**

Add the following two sentences before the second sentence under **Subsection 1.06.19:**

“If during construction the Contractor encounters a condition that it believes may require a change order to be issued, the Contractor shall immediately notify the Associate Commissioner for Construction in writing, identifying the condition and any potential extra work. The Contractor shall at the same time list any information or documents that it requests from DDC in order to prepare its detailed cost proposal, in accordance with **Articles 25 and 26** of the Standard Construction Contract.

If no further information or documents are requested from DDC, the Contractor’s detailed cost proposal shall be submitted within 10 days of its initial letter to the Associate Commissioner. If such documents or information are requested, the Contractor shall submit its detailed cost proposal within 10 days of DDC’s response.”

30. (NO TEXT)

31. Refer to Page 263, **Subsection 4.22.4.**, first paragraph, second and third lines as amended by Article 4, above;

Delete in the first paragraph, the second and third lines the words “on the following sketch and as directed by the Engineer.”;

Substitute the following text: “on the New York City Department of Transportation’s Standard Details of Construction Standard Drawing No. H-1046A and as directed by the Engineer.”

32. Refer to Page 265 as amended by Article 5, above;

Delete the Protective Tree Barrier sketch, as contained on page A1-1b, in its entirety;

Substitute the words “(NO TEXT ON THIS PAGE) ”.

[Added 10-15-2010]

33. Refer to Page 10, **Subsection 1.06.46. Project Sign and Rendering;**
Delete Articles (A) PROJECT SIGN and (B) PROJECT RENDERING, in
their entirety;
Substitute the following revised Article (A):

“(A) PROJECT SIGN

1. Responsibility: The Contractor shall produce and install one (1) project sign which shall be posted and maintained upon the site of the project at a point and in a position where directed by the Commissioner. The Contractor shall protect the sign from damage during the continuance of work under the Contract and shall do all patching of lettering, painting and bracing thereof necessary to maintain same in first class condition and in proper position. Prior to fabrication, the Contractor shall submit an 8-1/2” x 11” color match print proof from the sign manufacturer of completed sign for approval by the Commissioner. Sign shall remain on display where posted until the completion of the work except that, when so ordered by the Engineer, the Contractor shall remove, relocate or repost sign as directed.
2. Sign Quality: The Contractor shall provide all materials required for the production of the sign as specified herein. Workmanship shall be of the best quality, free from defects and shall be produced in a timely manner.
3. Schedule: Upon project mobilization, the Contractor shall commence production and installation of the sign.
4. Removal: At the completion of all work under the Contract, the sign shall be removed and disposed of away from the site.
5. (A) Sign Construction with Image: shall be a one piece 4' x 8' x 1/8" (3mm) (minimum thickness) industrial standard type sign panel composed of double sided painted aluminum bonded to a solid polyethylene core. Paint shall be a factory applied surface that is flat white, smooth, and ready for the application of the vinyl sign graphics. Samples must be submitted for approval.

(B) Sign Construction without Image shall be a one piece 4' x 4' x 1/8" (3mm) (minimum thickness) industrial standard type sign panel composed of double sided painted aluminum bonded to a solid polyethylene core. Paint shall be a factory applied surface that is flat white, smooth, and ready for the application of the vinyl sign graphics. Samples must be submitted for approval.
6. Sign Graphics:
 - a. All visual components of the sign are in an Adobe *.pdf file, which is provided by the Commissioner's representative. The file is to be opened in Acrobat Professional or Acrobat Approval in order to be saved with project information. The Commissioner's representative shall insert the project name and names and titles of personnel (3 or more), any images, and any other required information associated with the project. At no point in the update, saving or renaming of the file should it be locked by any user. The digital file shall be provided by DDC to the Contractor (on a CD or via E-mail) for printing.
 - b. The DDC *.pdf file with names provided by the Commissioner shall be reproduced digitally at the Sign Panel size of 4' x 8', or 4' x 4' without Image, on outdoor non-fading vinyl with matte uv laminate with 6-year lifespan made by 3M, Avery, Orical, or an approved equivalent. Vinyl shall be guaranteed for six years. Guarantee must cover fading, peeling, chipping or cracking.

- c. The sign manufacturer is required to print from the Acrobat *.pdf provided, and must match the following colors specified by Pantone: 3025 C, in tints 100%, 20%, and 10% in their exact locations as indicated in the *.pdf file, and on the DDC website: www.nyc.gov/buildnyc.
- d. Color shall be created in a four-color process to reproduce Pantone Colors (per Pantone formula).

Pantone color 3025 C (C-100, M-17, Y-0, K-51).
- e. The typeface, Helvetica shall be used in all text-fields as is specified in the settings of the Acrobat *.pdf.”

34. Refer to Page 191, **Subsection 4.07.3. (A) CURB;**

Add the following sentence to the end of the first paragraph:

“Straight curb at mid-block crosswalks shall include the cost of all depressed and transitional curb required for pedestrian ramps. “

2. AMENDMENTS TO STANDARD HIGHWAY SPECIFICATIONS, VOLUME II

The following amendments to the Construction Specifications shall become a part of and apply to the contract:

[Added 02-01-2009]

1. Refer to Page 335, first Item No. 6.23 AA under the words "Payment will be made under";
Delete the second (duplicate word) "POST" in the description of Item No. 6.23 AA.

[Added 03-04-2009]

2. Refer to Page 454, **Subsection 6.83.5.**, "PRICES TO COVER", first paragraph;
Insert the following sentence to the end of the first paragraph under **Subsection 6.83.5.:**

"There will be no additional payment for double-faced signs."

3. Refer to Page 462, **Subsection 6.86.5.**, "PRICES TO COVER", first paragraph;
Insert the following sentence to the end of the first paragraph under **Subsection 6.86.5.:**

"There will be no additional payment for double-faced signs."

[Added 03-23-2009]

4. Refer to Page 343, **Subsection 6.27.3.(G)**, first paragraph, first line;
Delete the words "and watchmen".

5. Refer to Page 365, **Subsection 6.40.6.**, "MEASUREMENT";
Delete **Subsection 6.40.6.**, "MEASUREMENT", in its entirety;
Substitute the following revised **Subsection 6.40.6.:**

"6.40.6. MEASUREMENT. The quantity to be measured for payment under this item shall be the number of months that the Field Office is available for occupancy by the Field Engineers during the period of the contract. Payment will begin the first month that the office is fully equipped, serviced as specified, and made available for occupancy. The Field Office is to be continuously made available and Monthly payments will continue for the duration of the contract through a period not to exceed 6 months past the substantial completion date. When directed in writing by the Commissioner, the Field Office will be provided and paid for a period of time beyond 6 months past the substantial completion date. Payment for each month's occupancy after the date of substantial completion acceptance will be made as part of the final estimate. Monthly payments may be terminated on a specified date prior to acceptance of the contract by written notification by the Engineer that such office will no longer be required on the contract."

6. Refer to Page 366, **Subsection 6.40.6.**, "PRICE TO COVER";
Change "6.40.6. PRICE TO COVER" to read "6.40.7. PRICE TO COVER."

[Added 10-09-2009]

7. Refer to Pages 361 and 362, **Subsection 6.40.2. (C) (c) (1) Personal Computer(s) – Workstation Configuration;**
Delete Subsection 6.40.2. (C) (c) (1), in its entirety;
Substitute the following revised **Subsection 6.40.2. (C) (c) (1) :**

- “(1) Personal Computer(s) - Workstation Configuration.
- (a) Make and Model: Dell; Gateway; HP; Toshiba; IBM; or, an approved equivalent. (Note: an approved equivalent requires written approval of the Assistant Commissioner of ITS.)
 - (b) Processor: 3.0 GHz Pentium 4 or faster computer - Single Processor.
 - (c) System Ram: Minimum of 1 GB (Gigabytes) of SDRAM or DDR
 - (d) Hard Disk Drive(s): 80 GB (Gigabytes) or larger.
 - (e) CD-RW: Internal CD-RW, 48x Speed or faster.
 - (f) 16X DVD+/-RW DVD Burner (with double layer write capability) 16x Speed or faster
 - (g) I/O Ports: Must have at least one (1) Serial Port, one (1) Parallel Port, two (2) USB Ports. Serial Ports must consist of UART 16550 Chip or better.
 - (h) Video Display Card: PCI Interface with a minimum of 64 MB of RAM.
 - (i) Monitor: 17" TFT LCD Monitor.
 - (j) Available Exp. Slots: System as configured above shall have at least two (2) full size PCI Slots available.
 - (k) Fax/Modem: Internal Fax/Modem 56 Kbps speed, or faster featuring 3COM or US Robotics Chipset and supporting a minimum of V.92 and MNP5 compliant. Integrated 10/100/1000 Ethernet
 - (l) Other Peripherals: Optical scroll Mouse, 101 Key Keyboard, Mouse Pad and all necessary cables.
 - (m) Software Requirements: Microsoft Windows XP Professional; Microsoft Office 2003 Professional; Microsoft Project 2003; Adobe Acrobat reader; Anti-Virus software package with 1 year updates subscription; and, either Auto Cad 2009 LT or Microsoft Visio 2007 Standard Edition, as directed by the Engineer.”

8. Refer to Page 362, **Subsection 6.40.2.(C)(c)(6)**, second paragraph beginning with the words "Broadband connectivity is preferred at each field office location. Please take into . . ."; Change the telephone number in the last line of that paragraph from "718-391-1668" to "718-391-1761".
9. Refer to Page 474, **Subsection 7.12.2. PRE-QUALIFICATION OF TESTING LABORATORY**;
Delete **Subsection 7.12.2. PRE-QUALIFICATION OF TESTING LABORATORY**, in its entirety;
Substitute the following revised **Subsection 7.12.2.:**

"7.12.2. APPROVAL OF TESTING LABORATORY AND QUALIFICATION OF THE TECHNICIANS. The testing laboratory used by the Contractor must be independent of the Contractor and any subsidiary. All proposed testing laboratories shall be duly licensed by the NYC Department of Buildings. Only laboratories approved by the Director of DDC QACS shall be used for all work performed and technicians qualified by the DDC QACS Bureau shall be used for field work. Laboratory technicians used for field work **who are not applying for renewal** of the QACS Qualification cards (new entrants) shall have current NICET Level 2 certification. Field technicians must present their current QACS Qualification Cards if so requested by authorized DDC staff. Staff used for laboratory testing must have current NICET Level 2 certification. Exceptions granted to any of the above requirements must be in writing by the Director of QACS.

It is understood that no subcontract for the performance of required soil testing work will release the Contractor from his responsibility under the contract to execute all work in conformance with the Contract Drawings and specifications."

[Added 12-04-2009]

10. Refer to Page 322, **Subsection 6.22.3. MATERIALS**, first and second lines;
Change the words "the Department of Design and Construction's Standards" to read "the standards of the Department or Agency owning the hardware".
11. Refer to Page 400, **Subsection 6.59P.2. DESCRIPTION**, fifth line;
Change the words "Standard Sheet No. M619-3R1." to read "Standard Sheets for Temporary Concrete Barrier."

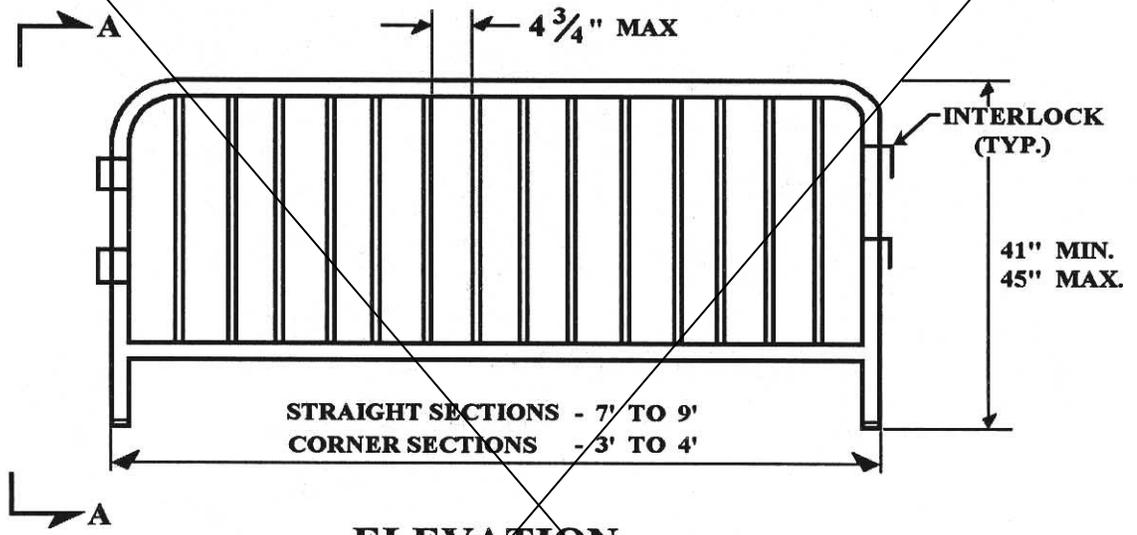
[Added 12-11-2009]

12. Refer to TABLE OF CONTENTS, Page i, **SECTION 6.48 - Curb Painting**;
Delete the words "SECTION 6.48 - Curb Painting" and substitute "SECTION 6.48 (VACANT)".
13. Refer to Pages 384 and 385, **SECTION 6.48 - Curb Painting**;
Delete SECTION 6.48 - Curb Painting, in its entirety and substitute the words "**SECTION 6.48 (VACANT)**".

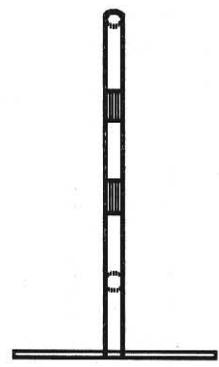
14. Refer to Page 500, **Subsection 7.36.3. MATERIALS**, first paragraph, second and third lines;
Delete in the first paragraph, the second and third lines beginning with the words "on the New York City Department of Transportation's Standard Details of Construction Standard Drawing No. H-1014";
Substitute the following text: "on the following sketch".

15. Refer to Page 501;
Insert the sketch contained on the following page A1-2d.

TEMPORARY PEDESTRIAN STEEL BARRICADE



ELEVATION



SECTION A-A

[Added 03-03-2010]

16. Refer to Pages 339, 386, 401, 420, 515, 563, and 564, text concerning the National Manual on Uniform Traffic Control Devices for Streets and Highways (National MUTCD) plus the New York State Supplement (NYS Supplement);
Change the words "plus the New York State Supplement (NYS Supplement)" to read ", 2009 or latest Edition", wherever they appear.

17. Refer to Page 348, **Subsections 6.30.2. DESCRIPTION;**
Insert the following new third paragraph:

"Removal of existing guide rails shall consist of removing and disposal of the existing beam type guard rails designated to be removed."

18. Refer to Page 351, **Subsections 6.30.6. METHODS;**
Insert the following text as the last paragraph under **Subsection 6.30.6:**

"Existing beam type guardrails designated to be removed shall be completely removed by the Contractor. Removal shall include all railing, posts, foundations and other appurtenances designated as railing. The length of railing to be removed shall be as shown on the plans, unless otherwise directed by the Engineer. All removed materials shall become the property of the Contractor and shall be disposed of by him away from the work site. All holes left by the removal operations shall be backfilled with a suitable material and compacted in a manner approved by the Engineer."

19. Refer to Page 351, **Subsections 6.30.7. MEASUREMENT;**
Insert the following text as the last Article under **Subsection 6.30.7:**

"(D) REMOVE EXISTING GUIDE RAIL

The quantity to be measured for payment shall be the number of linear feet of existing guard rail removed and disposed of as herein specified or ordered by the Engineer, measured from center to center of end posts."

20. Refer to Page 351, **Subsections 6.30.8. PRICES TO COVER;**
Insert the following text as the last Article under **Subsection 6.30.8:**

"(D) REMOVE EXISTING GUIDE RAIL

The contract price bid to remove existing guard rail shall be a unit price per linear foot and shall cover the cost of furnishing all labor, materials, plant, equipment, insurance and incidentals required to complete the work in accordance with the plans, the specifications, and the directions of the Engineer."

21. Refer to Page 390, **Subsections 6.52.2. DESCRIPTION and 6.52.3. METHODS;**

Delete **Subsections 6.52.2. and 6.52.3,** in its entirety;
Substitute the following revised **Subsections 6.52.2 and 6.52.3:**

“6.52.2. DESCRIPTION. The Contractor shall furnish an adequate number of competent flagpersons to control vehicular and pedestrian traffic when it is necessary to maintain alternating one-way traffic in one lane of a two-way roadway, and at all other locations where construction operations, construction vehicles and equipment, and temporary traffic patterns related to the construction operations require positive temporary traffic control for safe, efficient traffic operations.

6.52.3. METHODS. All flagpersons shall be English speaking and adequately trained in flagging operations by a recognized training program such as that provided by the American Traffic Safety Services Association, the National Safety Council, unions or construction industry associations, or by an individual who holds a current certification as a flagger training instructor from such a program.

Prior to the start of flagging operations, the Contractor shall provide to the Engineer a list of certified flagpersons to be used in the contract, identifying the source of flagger training for each individual. When requested by the Engineer, flagpersons shall demonstrate their competency in flagging procedures. Flagpersons not competent in flagging procedures to the satisfaction of the Engineer shall be retrained or replaced at once. Each flagperson paid under this item must be a full-time flagperson. If any worker performing services under this item is also assigned the task of directing construction equipment (as per attached Example #2, flagperson 'A') or any laborer tasks, then such worker shall be deemed to be subject to the provisions of Labor Law §220 Prevailing Wage Schedule and will not be paid for under this item.

A flagperson's uniform, consistent with OSHA standards, shall consist of a high-visibility apparel (safety vest) worn over the outer clothing; a regulation hard hat; and, a STOP/SLOW paddle signaling device or in emergency situations a reflectoized red signal flag of plastic cloth 18" square on a 36" shaft.

The high-visibility safety apparel (safety vest), for daytime and nighttime activity, shall meet the Performance Class 2 or 3 requirements of the ANSI/ISEA 107–2004 publication entitled 'American National Standard for High-Visibility Apparel and Headwear' and labeled as meeting the ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. The apparel background (outer) material color shall be fluorescent orange-red, fluorescent yellow-green, or a combination of the two as defined in the ANSI standard. The retroreflective material shall be orange, yellow, white, silver, yellow-green, or a fluorescent version of these colors, and shall be visible at a minimum distance of 1,000 feet. The retroreflective safety apparel shall be designed to clearly identify the wearer as a person.

The standard signaling device for flagging operations, where one or more flaggers are controlling a single stream of traffic or two alternating streams of traffic in opposite directions, shall be STOP/SLOW signal paddles. STOP/SLOW paddles shall have an octagone shape on a rigid handle. The STOP (R1-1) face shall have white letters and a white border on a red background. The SLOW (W20-8) face shall have black letters and a black border on an orange background. When used at night, the STOP/SLOW paddle shall be reflectorized. Red signal flags should be limited to emergency situations.”

22. Refer to Page 422, **Subsection 6.70.5. TRAFFIC CONTROL,** second paragraph, 4th line;
Delete the words “plus the NYS Supplement”.

23. Refer to Page 434, **Subsection 6.70.11. (H) PAVING WORK,** second paragraph, 4th line;
Delete the words “plus the NYS Supplement”.

[Added 04-30-2010]

24. Refer to Page 390, **Subsection 6.52.3. METHODS**, as amended by Article 21, above;
Delete **Subsection 6.52.3**, in its entirety;
Substitute the following revised **Subsection 6.52.3**:

“6.52.3. METHODS. All flagpersons, whether paid for under this item or not, shall be English speaking and adequately trained in flagging operations by a recognized training program such as that provided by the American Traffic Safety Services Association, the National Safety Council, unions or construction industry associations, or by an individual who holds a current certification as a flagger training instructor from such a program.

All flagpersons, whether paid for under this item or not, their apparel, hand-signaling devices, and procedures to be used by them shall be in compliance with the requirements of Chapter 6E. FLAGGER CONTROL, in the Federal “Manual on Uniform Traffic Control Devices for Streets and Highways” 2009 Edition, or later edition.

Prior to the start of flagging operations, the Contractor shall provide to the Engineer a list of certified flagpersons to be used in the contract, identifying the source of flagger training for each individual. When requested by the Engineer, flagpersons shall demonstrate their competency in flagging procedures. Flagpersons not competent in flagging procedures to the satisfaction of the Engineer shall be retrained or replaced at once. Each flagperson paid under this item must be a full-time flagperson. If any worker performing services under this item is also assigned the task of directing construction equipment (as per attached Example #2, flagperson ‘A’) or any laborer tasks, then such worker shall be deemed to be subject to the provisions of Labor Law §220 Prevailing Wage Schedule and will not be paid for under this Item.”

25. Refer to Page 336, Item No. 6.23 CCE;
Insert “L.F.” under the Pay Unit column for Item No. 6.23 CCE.

[Added 09-15-2010]

26. Refer to Page 500, **Subsection 7.36.3. MATERIALS**, first paragraph, second and third lines as amended by Article 14, above;
Delete in the first paragraph, the second and third lines the words “on the following sketch”;
Substitute the following text: “on the New York City Department of Transportation’s Standard Details of Construction Standard Drawing No. H-1014”.

27. Refer to Page 501 as amended by Article 15, above;
Delete the Pedestrian Steel Barricade sketch, as contained on page A1-2d, in its entirety.

(NO TEXT ON THIS PAGE)