



## CONSTRUCTION CONTRACT

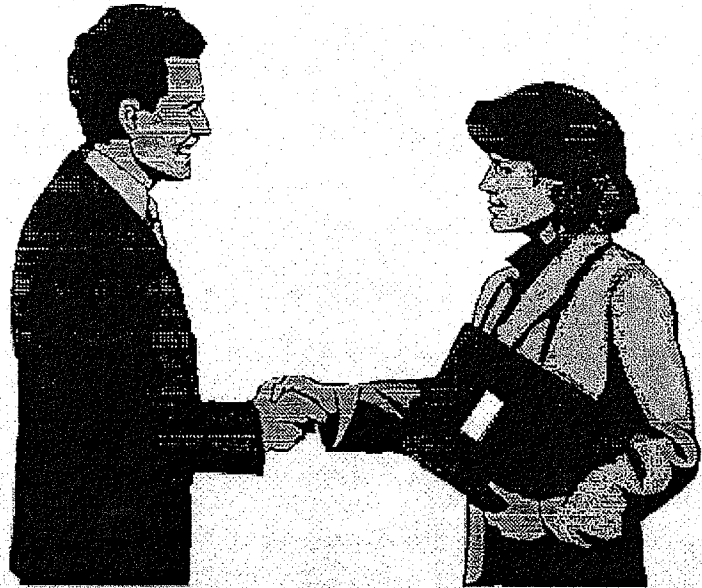
New York City  
Department of  
Environmental Protection

59-17 Junction Boulevard  
Elmhurst, New York 11373

Emily Lloyd  
Commissioner

Steven W. Lawitts  
First Deputy Commissioner

Carol Fenves  
Agency Chief Contracting Officer



# ADDENDUM TO CONTRACT DOCUMENTS NUMBER 3

FOR  
FURNISHING ALL LABOR AND MATERIALS  
NECESSARY AND REQUIRED FOR:

Contract: CONTRACT CRO-334G – STRUCTURES AND EQUIPMENT  
CONTRACT CRO-334E – ELECTRICAL

Description: NEW CROTON AQUEDUCT REHABILITATION

May 2008

Prepared by:  
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.

In association with:  
MONTGOMERY WATSON HARZA

Metcalf & Eddy ◊ Hazen and Sawyer  
A Joint Venture

RECEIVED  
MAY 19 2008  
EVANSVILLE, IN

**THE CITY OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION**

TO ALL BIDDERS FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY  
AND REQUIRED FOR:

**NEW CROTON AQUEDUCT REHABILITATION  
CONTRACT NOS.**

**CRO-334G – Structures and Equipment  
CRO-334E – Electrical**

This Addendum is issued for the purpose of amending the requirements of the Contract Documents and is hereby made a part of said Contract Documents to the same extent as though it were originally included therein.

**PLEASE NOTE: THE BID DATE FOR CONTRACTS CRO-334G and E HAS BEEN  
CHANGED TO May 29, 2008 AT 11:30 AM (LOCAL TIME).**

The pages of this Addendum are numbered sequentially. All Bidders should check this book carefully to verify that all pages are included. Should any pages be missing, notify the Department of Environmental Protection in writing.

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This Signature Page must be signed, dated, and detached from the book and submitted by the bidder with his/her bid as an acknowledgement of receipt of, having read, and inclusion of same in his/her bid.

Please Note: The bid sheets (Bid Schedule of Prices) for Contract No. CRO-334G have been revised by Addendum No. 3 dated May 16, 2008. Bidder is to submit these revised bid sheets. NO OTHER BID SHEETS WILL BE ACCEPTED FOR CONTRACT NO. CRO-334G.

Emily Lloyd  
Commissioner

I acknowledge receipt of Addendum No. 3 for New Croton Aqueduct Rehabilitation, for Contract Nos. CRO-334G and CRO-334E.

\_\_\_\_\_  
Name of Bidder

**New Croton Aqueduct Rehabilitation  
Contract Nos. CRO-334G, CRO-334E**

By: \_\_\_\_\_

**Addendum to Contract Documents No. 3**

Date: \_\_\_\_\_

**NEW CROTON AQUEDUCT REHABILITATION  
CONTRACT NO. CRO-334G and CRO-334E**

**ADDENDUM NO. 3**

**GENERAL NOTES**

1. All Bidders are advised that two (2) Addenda have previously been issued; in the event that Addenda No. 1 and No. 2 have not been received, Bidders are advised to contact Mr. Francis Lo, PE, Project Manager, NYCDEP at (718) 595-5474 to request copies of the Addenda not received. It is the Bidders' responsibility to confirm receipt of all Addenda; NYCDEP will not be responsible for failure of Bidders to confirm receipt of Addenda.
2. The written responses to Bidder questions are provided for information only and are not part of the Contract Documents. Where a written response to a Bidder question conflicts with the Contract Documents, the Contract Documents shall govern.

**A. CONSTRUCTION CONTRACT INVITATION FOR BID: CONTRACT CRO-334G – STRUCTURES AND EQUIPMENT,**

1. Replace Pages 2C and 2D with Pages 2C through 2F - Prime Contractor Pre-Award Meeting Statement, Subcontractor Pre-Approval Statement, Notice to Bidders and Apprenticeship Program Questionnaire. (See Attachment No. 1).
2. Pages 13A through 13C, delete Bid Schedule of Prices in its entirety and replace with the new Bid Schedule of Prices. (See Attachment No. 2). Revisions to the Bid Schedule of Prices are as follows:

Contract Item G-UP-15: Revised description from "*Setups for Brick Replacement Work in Tunnel and Shafts*" to "*Setups for Brick Replacement Work in Tunnel*"

Contract Item G-UP-15: Revised quantity from "26" to "21"

Contract Item G-UP-16: Revised description from "*Brick Replacement in Tunnel and Shafts*" to "*Brick Replacement in Tunnel*".

Contract Item G-UP-16: Revised quantity from "310" to "265"

Contract Item G-UP-17: Deleted (Description replaced with: "*Not Used*")

Contract Item G-UP-18: Deleted (Description replaced with: "*Not Used*")

Contract Item G-UP-20: Revised description from "*Grouting - Setup for Drilling and Grouting Operations in Shafts*" to "*Setup for Drilling and Grouting Operations in Shafts 20, 21, 22, 23, 25, 28, and 29 only*"

Contract Item G-UP-20: Revised quantity from "20" to "7"

Contract Item G-UP-21: Revised description from "*Grouting - Drilling Grout and Vent Holes 3 Feet to 4 Feet Deep*" to "*Grouting - Drilling Grout and Vent Holes 2 Feet to 4 Feet Deep*"

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**B. CONSTRUCTION CONTRACT INVITATION FOR BID: CONTRACT CRO-334E – ELECTRICAL,**

1. Replace Pages 2C and 2D with Pages 2C through 2F - Prime Contractor Pre-Award Meeting Statement, Subcontractor Pre-Approval Statement, Notice to Bidders and Apprenticeship Program Questionnaire. (See Attachment No. 1).

**C. INFORMATION FOR BIDDERS, STANDARD CONSTRUCTION CONTRACT AND SPECIFICATIONS**

**NEW YORK CITY PREVAILING WAGE RATES**

1. Page 000007, Labor Law 220 – Addendum No. 1. New clarification to be added immediately preceding Page 000007 of the New York City Prevailing Wage Rates. (See Attachment No. 3).

**DETAILED SPECIFICATIONS**

2. Page 001237, Detailed Specification 01120 – Multiple Contract Summary. Delete Article 1.04.B in its entirety and replace with the following:

“B. Two shut-downs of the Aqueduct are planned during the Contracts period. NYCDEP BWSO will unwater the Aqueduct to such level as allowed by permits. The Contractor shall remove any water remaining after DEP turns the NCA over to the Contractor and shall maintain the Aqueduct unwatered as required for the work of his Contract or for the work of other Contractors as directed by the Engineer. Each Contractor working within the NCA shall be responsible for the disinfection of its work areas within the NCA.

1. The first unwatered period is from January 2009 to April 2009. It is expected that the Contractor for Construction Contract CRO-313 will require access to connect a new tunnel to the Aqueduct near Shaft No. 21. Access to the Aqueduct for the CRO-313 Contractors during this period must be coordinated with the CRO-334 Contractor through the Engineer.
2. The second unwatered period is from September 2009 to September 2010. No work is allowed north of Gate House No. 1 or in the Branch Aqueduct from May to September, because the gravity section must be on line to meet the City’s legal obligations to upstate communities.

Up to 60 million gallons of water may remain in the pressurized tunnel south of Gate House No. 1 after the City unwaters the Aqueduct. The

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CRO-334G Contractor shall remove the remaining water from the Aqueduct to bring the water level down to Elevation +4.0 at Shaft No. 25. The CRO-334G Contractor shall maintain the water level at Elevation +4.0 throughout the work in the tunnel by the CRO-334G Contractor and by the CRO-313 Contractor. This work shall include diverting, pumping, and discharging water from Shaft No. 25 to the city sewer system in accordance with the NYCDEP Wastewater Quality Control Permit and NYCDEP Dewatering/Discharge Permit obtained by the CRO-334G Contractor for this purpose. Work to achieve and maintain the Aqueduct in an unwatered condition shall be in accordance with Detailed Specification 02411 – Pumping.”

3. Page 001238, Detailed Specification 01120 – Multiple Contract Summary. Delete Article 1.05.C.1 in its entirety and replace with the following:

“1. Mobilize all plant, power, equipment, materials, supplies, appurtenances, and personnel services required for commencing and executing the work.”

4. Page 001247, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for “Shaft No. 20” and replace with the following:

Shaft No. 20	Centerline, Station 1284+16 (Mile 24.32)	Remove and reinstall buried precast concrete cover Scale cast iron lining, prepare surface and install epoxy mortar lining Grout leaks and voids.
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5. Page 001252, Detailed Specification 01120 - Multiple Contract Summary. Delete Article 1.05.F.3 in its entirety.

6. Page 001255, Detailed Specification 01140 – Work Restrictions and Working Hours. Delete Article 1.03.A in its entirety and replace with the following:

“A. “Normal Project Working Hours” for this Contract shall be the hours between 7:00AM and 6:00PM, Monday through Friday (except for holidays). The Contractor acknowledges that in submitting a Bid for Contracts CRO-334G and CRO-334E, the Contractor has the management, labor, equipment, and subcontracted capabilities to perform the Contract work within the Period of Performance indicated in the General Conditions – Schedule A.”

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7. Page 001274, Detailed Specification 01270 – Measurement and Payment. Delete Article 1.04.D.1.cc in its entirety and replace with the following:
- “cc. Rehabilitation of Shaft No. 9 Blow Off Outlet:
- 1) Scale removal, grouting and grease injection. Grease shall be NSF approved, suitable for potable water.
  - 2) Replace gate”
8. Page 001275, Detailed Specification 01270 – Measurement and Payment. Delete Article 1.04.D.1.kk in its entirety and replace with the following:
- “kk. Rehabilitation of Shaft No. 14
- 1) Mechanical Work
  - 2) Sealing of blow off outlets and provide gravity walls
  - 3) Epoxy mortar lining
  - 4) Brick replacement, joint and crack repair, cleaning of efflorescence and grouting in the shaft chambers.
  - 5) Brick replacement, repointing, grouting, and joint and crack repair in the shaft blow-off tunnel.”
9. Page 001275, Detailed Specification 01270 – Measurement and Payment. After Article 1.04.D.1.pp.6), add the following:
- “7) Clean, repoint and grout Waste and Aqueduct Chambers
  - 8) Replace deteriorated brick and repair arch in Waste Chamber”
10. Page 001283, Detailed Specification 01270 – Measurement and Payment. Delete Article 1.06.B.6 in its entirety and replace with the following:
- “6. Contract Items G-UP-13 through G-UP-16: Joint/Crack Repairs and Brick Replacement
- a. Under Contract Items G-UP-13 through G-UP-16, the Contractor shall perform repairs and brick replacement in accordance with Detailed Specification 02428 – Joint/Crack Repairs and Brick Replacement.

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- b. Payment will be made at the unit price bid per each for the following Contract Items:

<u>Contract Item</u>	<u>Description</u>
G-UP-13	Setups for Joint/Crack Repairs in Tunnel
G-UP-15	Setups for Brick Replacement Work in Tunnel

- c. Payment will be made at the unit price bid per linear foot for the following Contract Items:

<u>Contract Item</u>	<u>Description</u>
G-UP-14	Joint/Crack Repairs in Tunnel

- d. Payment will be made at the unit price bid per square foot for the following Contract Items:

<u>Contract Item</u>	<u>Description</u>
G-UP-16	Brick Replacement in Tunnel”

11. Page 001284, Detailed Specification 01270 – Measurement and Payment. Delete Article 1.06.B.7.b in its entirety and replace with the following:

- “b. Payment will be made at the unit price bid per each for the following Contract Items:

<u>Contract Item</u>	<u>Description</u>
G-UP-19	Setup for Drilling and Grouting Operations within Tunnel
G-UP-20	Setup for Drilling and Grouting Operations in Shafts 20, 21, 22, 23, 25, 28, and 29 only.
G-UP-24	Setup for Exploratory and/or Check Hole Drilling within Tunnel.
G-UP-25	Setup for Exploratory and/or Check Hole Drilling in Shafts.”

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12. Page 001284, Detailed Specification 01270 – Measurement and Payment. Delete Article 1.06.B.7.c in its entirety and replace with the following:

“c. Payment will be made at the unit price bid per linear foot for the following Contract Items:

<u>Contract Item</u>	<u>Description</u>
G-UP-21	Drilling Grout and Vent Holes 2 Feet to 4 Feet Deep
G-UP-22	Drilling Grout and Vent Holes 6 Feet Minimum to 15 Feet Maximum Deep
G-UP-26	Drilling Exploratory and/or Check Holes Within Tunnel or Shafts.

13. Page 001285, Detailed Specification 01270 – Measurement and Payment, Article 1.06.B.10, replace “*Contract Item...*” with “*Contract Items...*”.

14. Page 001386, Detailed Specification 01410 – Regulatory Requirements. Delete Article 1.12.E in its entirety and replace with the following:

“E. Additional requirements shall be as specified in General Specification 02240 – Dewatering, Detailed Specifications 01570 - Temporary Controls and 02411- Pumping.”

15. Page 001558, Detailed Specification 02402 – Shaft Hoisting Systems and Logistical Support. Delete Article 3.02.A.5 in its entirety and replace with the following:

“5. Personnel shall be lowered and raised between the surface and the Aqueduct Bronx Pressurized Section at Shaft No. 21.”

16. Page 001573, Detailed Specification 02428 – Joint/Crack Repair and Brick Replacement. Delete Article 1.01.C in its entirety and replace with the following:

“C. Prominent joints/cracks have been observed in previous inspections in the Aqueduct and their approximate locations are shown on the Drawings. The Contractor shall repair all such joints/cracks, and other joints/cracks as directed by the Engineer in the field during the course of the Work within this Contract.”

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17. Page 001574, Detailed Specification 02428 – Joint/Crack Repair and Brick Replacement. Delete Article 1.03 in its entirety and replace with the following:

“1.03 PAYMENT

A. Measurement for Payment

1. Measurement for payment for setting up for joint/crack repairs in the tunnels will be based on the number of setups made for such operations.
  - a. Each area in the tunnels identified by stationing on the Drawings as requiring joint/crack repairs will be counted as a single setup. Areas in the tunnels identified by stationing on the Drawings will not be separately measured for setup payments if the distance between the end of any joint/crack repair in an area for which setup has been measured for payment and the closest end of a joint/crack repair identified by stationing on the Drawings further along the tunnel alignment is less than 50 LF. Multiple joint/crack repairs within an area measured for setup will not be considered for measurement of an additional setup. Any area in the tunnels identified by stationing on the Drawings as requiring both joint/crack repairs and brick replacement work will only be measured as a setup for brick replacement work.
  - b. No measurement for payment will be made for setups for joint/crack repairs in shafts, blow-off chambers, blow-off outlets or raceways, as this work shall be included in Contract Item G-LS-1.
  - c. Each additional area in the tunnels not identified by stationing on the Drawings but designated by the Engineer for joint/crack repairs will be counted as a single setup. Additional setups in the tunnels not identified by stationing on the Drawings but designated by the Engineer for joint/crack repairs will not be measured for payment if the distance between the end of any joint/crack repair in an area for which setup has been measured for payment and the closest end of a joint/crack repair further along the tunnel alignment is less than 50 LF.
2. Measurement for payment for joint/crack repairs in the tunnels will be based on the number of lineal feet of joints/cracks repaired in