



CONSTRUCTION CONTRACT

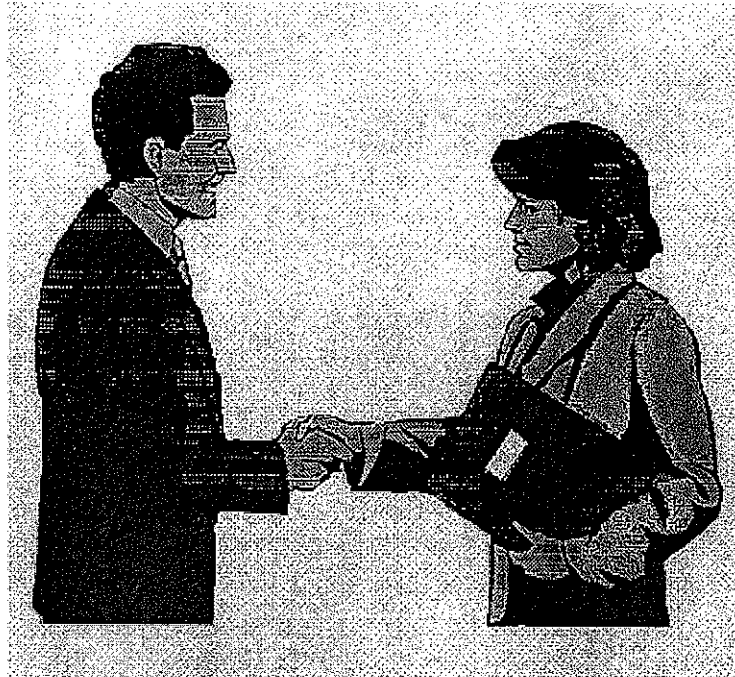
**New York City
Department of
Environmental Protection**

**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

**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 April 24, 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.

Emily Lloyd
Commissioner

I acknowledge receipt of Addendum No. 1 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. 1

Date: _____

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

ADDENDUM NO. 1

GENERAL NOTES

1. Questions regarding the bid documents shall be submitted no later than April 14, 2008.
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. (See Attachment No. 1).

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

1. Page 2D, delete the Apprenticeship Program Questionnaire in its entirety and replace with the new Apprenticeship Program Questionnaire. (See Attachment No. 2).

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

1. Page 2D, delete the Apprenticeship Program Questionnaire in its entirety and replace with the new Apprenticeship Program Questionnaire. (See Attachment No. 2).

C. INFORMATION FOR BIDDERS, STANDARD CONSTRUCTION CONTRACT AND SPECIFICATIONS

STANDARD CONSTRUCTION CONTRACT

1. Page i – Table of Contents, Standard Construction Contract. New addendum to be added immediately preceding Page i of the Table of Contents. (See Attachment No. 3).

GENERAL CONDITIONS

2. Page 000193, General Conditions, Article 3. Table of Contents, Standard Construction Contract. Change title for Sheet No. 233 – Drawing No. M16 from “VENTILATION DETAILS – SHAFTS NO. 11A AND 23” to “VENTILATION DETAILS”.

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DETAILED SPECIFICATIONS

3. 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 south of Gate House No. 1 after the City unwaters the Aqueduct. The CRO-334G Contractor may have to pump this 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 obtaining permits necessary to discharge this water to City sewers. Work to achieve and maintain the Aqueduct in an unwatered condition shall be in accordance with General Specification 02240 – Dewatering and Detailed Specification 02240G – Dewatering.”

4. Page 001239, Detailed Specification 01120 - Multiple Contract Summary. Delete Article 1.05.C.13. in its entirety and replace with the following:

“13. Provide progress photographs before, during, and after construction activities, clearly showing conditions of all work items at all locations.”

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5. Page 001241, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for "Shaft No. 5" and replace with the following:

Shaft No. 5	Centerline, Station 308+96.9 (Mile 5.85).	Remove existing cast-in-place cover Repair leak (grout and repoint) Remove ladder. Remove top few feet of shaft and install a new precast concrete cover below grade level. Cover with backfill.
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6. Page 001244, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for "Shaft No. 14" and replace with the following:

Shaft No. 14	Centerline, Station 826+24.7 (Mile 15.65).	Rehabilitate underground chambers Remove sediment and debris from invert of waste chamber and blow off outlet tunnel Support Engineer's inspection of invert of blow off outlet and tunnel Rehabilitate waste chamber and blow-off tunnel Repair invert of blow off tunnel as directed by Engineer Install epoxy mortar lining in chamber and Aqueduct tunnel.
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7. Page 001245, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for "Shaft No. 16" and replace with the following:

Shaft No. 16	Centerline, Station 969+01.9 (Mile 18.35).	Remove existing cast iron cover Open for ventilation Repair leak (grout, replace bricks and repoint) Contact grout Demolish top of existing manhole Provide new reinforced concrete cover and cover with topsoil
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8. Page 001246, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for "Shaft No. 18 ¼" and replace with the following:

Shaft No. 18¼	Centerline, Station 1142+76.2 (Mile 21.64).	Remove existing cast iron cover Repair shaft walls Install new precast concrete cover, new fencing and gate
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9. Page 001250, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for "Shaft No. 28" and replace with the following:

Shaft No. 28	Centerline, Station 1545+32 (Mile 29.27).	Remove and reinstall existing cast iron cover under asphalt Remove appurtenances susceptible to corrosion Install epoxy mortar lining on prepared cast iron surface. Install sidewalk vent
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10. Page 001251, Detailed Specification 01120 - Multiple Contract Summary, Article 1.05.D. Delete entire row for "Shaft No. 29" and replace with the following:

Shaft No. 29	Centerline, Station 1568+96 (Mile 29.72),	Remove and reinstall existing cast iron cover under asphalt Remove appurtenances susceptible to corrosion Install epoxy mortar lining on prepared cast iron surface. Install sidewalk vent
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11. Page 001253, Detailed Specification 01120 - Multiple Contract Summary. Delete Article 1.06.B.2. in its entirety and replace with the following:

"2. The Contractor shall demolish existing electrical power distribution panels, lighting, power and all conduits and wiring at Shaft Nos. 9, 18, 24A and 25. Existing power distribution panels at Shaft No. 14 shall be modified to accommodate new work. The Contractor shall demolish existing wood poles, socket box and all associated conduit and wiring for Shaft Nos. 11A and 14."

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12. Page 001254B, Detailed Specification 01120 – Multiple Contract Summary, after Article 1.07.A.5. add the following:
 - “6. Shaft No. 18-1/4 houses a platform and sampling equipment that are to be maintained.
 7. It is expected that the CRO-313 Contractor will complete the construction of Shaft No. 21A, a new shaft located 45 feet south of Shaft No. 21, within the period of performance of the CRO-334 Contract. This work will reduce the diameter of the NCA tunnel to 6’-0” for a length of approximately 120 ft, from 15 feet to 135 feet south of Shaft No. 21.”
13. Page 001254B, Detailed Specification 01120 - Multiple Contract Summary. Delete Article 1.07.B.2. in its entirety and replace with the following:
 - “2. NYCDEP Contract CRO-313 includes the connection of two new tunnels to the NCA, the construction of a new shaft just south of existing Shaft No. 21, and the construction of a plug 120 feet long with a 6’-0” diameter opening.”
14. Page 001254B, Detailed Specification 01120 – Multiple Contract Summary, after Article 1.07.B.5. add the following:
 - “6. NYCDEP Contract DEL-185 requires intermittent access to the Delaware Aqueduct during the CRO-334 period of performance. When the Delaware Aqueduct is off-line, NYCDEP may require that the New Croton Aqueduct be on-line.”
15. Page 001268, Detailed Specification 01270 – Measurement and Payment, after Article 1.02.DD, add the following:
 - “EE. Detailed Specification 01360 – Vehicles.”
16. Page 001277, Detailed Specification 01270 – Measurement and Payment, after Article 1.04.D.1.ggg, add the following:
 - “hhh. Vehicles (per Detailed Specification 01360 - Vehicles).”
17. Page 001293, Detailed Specification 01271 – Project Milestones and Liquidated Damages, Article 1.07.A.1. Change the reference in the fifth line of the paragraph from “Detailed Specification 01120 – Contract Summary, Article 1.05.I.4” to “Detailed Specification 01120 – Multiple Contract Summary, Article 1.05.I.5.”
18. Page 001328, after Detailed Specification 01333 – Records in Paper Formats, add reference documents. (See Attachment 4).

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19. Page 001380, after Detailed Specification 01356 – Safe and Healthful Working Conditions, Attachment D, add new Detailed Specification 01360 - Vehicles and update Table of Contents accordingly. (See Attachment No. 5).
20. Page 001383, Detailed Specification 01410 – Regulatory Requirements. After Article.1.06.C.23, add the following:

“24. “NYC Department of Buildings Permits (Shaft Nos. 23 and 25)”
21. Page 001419, Detailed Specification 01520 – Temporary Construction Facilities and Equipment, Article 1.03.B.3, revise the last sentence in the article to read: “All fixed costs associated with mobilizing, setting up, demobilizing and restoration of the change and storage facilities areas shall be deemed as included in the lump sum price bid for Contract Item No. G-LS-1, as it relates to Mobilization, Surface Site Preparation, and Site Restoration for Shafts No. 9, 18, 21 and 33 (see Detailed Specification 01270 - Measurement and Payment).”
22. Page 001419, Detailed Specification 01520 – Temporary Construction Facilities and Equipment. Delete Article 1.05.C. in its entirety and replace with the following:

“C. The Contractor shall be responsible for renting, furnishing and maintaining a temporary field office for its work associated with the rehabilitation program within New York City, near the site in commercial space and in accordance with the requirements of the General Conditions, Article 6, Temporary Structures, at which readily accessible copies of all contract documents shall be kept. In charge of this office there shall be a competent superintendent of the Contractor.”
23. Page 001420, Detailed Specification 01520 – Temporary Construction Facilities and Equipment, Article 1.06.D.1, delete the second word, *trailer*, from the first sentence of the article, and insert *office* in its place.
24. Page 001423, Detailed Specification 01520 – Temporary Construction Facilities and Equipment, Article 1.06.D.2.jj, delete the ninth word, *trailer*, from the second sentence of the article, and insert *office* in its place.
25. Page 001427, Detailed Specification 01520 – Temporary Construction Facilities and Equipment, Article 1.08.B, delete the second sentence “These areas are anticipated to be Shaft Nos. 9, 18, 20 and 33.” and replace it with the sentence: “These areas are anticipated to be Shaft Nos. 9, 18, 21 and 33.”
26. Page 001427, Detailed Specification 01520 – Temporary Construction Facilities and Equipment, Article 1.08.B, delete the fourth sentence “Roof, walls, and floor shall be of sturdy, fire proof construction, adequately insulated, water tight and

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sealed.” and replace it with the sentence: “Facilities shall conform to HUD requirements for manufactured homes, be provided with smoke and carbon monoxide detectors, and be adequately insulated, water tight and sealed.”

D. ATTACHMENTS

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G1 - LIST OF DRAWINGS – SHEET 1 OF 2	
G3 - PRE-BID CONSTRUCTION SCHEDULE – SHEET 1 OF 4	
C14 - CONSTRUCTION STAGING AND MAIN ACCESS – SHAFT NO. 20	
C15 - CONSTRUCTION STAGING AND MAIN ACCESS – SHAFT NO. 21	
C204- REHABILITATION OF RACEWAY SHAFT NO. 18 – SHEET 4 OF 5	
M3 - MECHANICAL PLAN AND DETAILS – SHAFT NO. 9 – SHEET 1 OF 2	
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M16 - VENTILATION DETAILS	

FOR INFORMATION ONLY

New Croton Aqueduct Rehabilitation							
Construction Contracts CRO-334G and -334E							
LOG OF BIDDER'S QUESTIONS							
Item	CQ Set#	CONTRACTOR / MANUFACTURER	DATE	ITEM NO.	COMMENT/QUESTION	DRAWING / SPECIFICATION	RESPONSE
1	1	Frontier- Kemper	3/21/2008	1	Specification 01520 Section 1.02.D.2.y specifies Minolta model EP450Z photocopy machine, this machine is no longer made. Please specify a current model.	DS 01520 Article 1.02.D.2.y	Provide a machine with equivalent features acceptable to the Engineer
2				2	Specification 01520 Section 1.02.D.2.bb states that the contractor will supply "Four (4) Desktop PC with printer..." does this mean 4 PC's and 4 Printers, or 4 PC's and 1 Printers?	DS 01520 Article 1.02.D.2.bb	Four PCs and one printer
3				3	Specification 01520 Section 1.02.D.2.bb specifies an HP Laserjet 2200DT printer, this model is no longer made. Please specify a current model.	DS 01520 Article 1.02.D.2.bb	Provide a machine with equivalent features acceptable to the Engineer
4				4	Specification 01520 Section 1.02.D.2.bb states "Printer and PC shall be networked to laptop computer." and section 1.02.D.1 requires the contractor to connect the trailer to two T1 lines. In order to use the T1 line to gain access to the internet, additional equipment (i.e. routers) and wiring are required; in order to "network" computers additional software is required. None of this additional equipment or software is specified. Please clarify. Additionally, any 'network' requires maintenance and support-who is going to provide this?	DS 01520 Article 1.02.D.2.bb and 1.02.D.1	CRO-334G contractor shall provide all equipment, software, and support acceptable to the Engineer that is required to establish and maintain networked intranet and internet service.
5				5	Specification 01520 Section 1.02.F requires the contractor to "provide, replenish and maintain for the duration that the office is used, heat, lighting, sanitary facilities, air conditioning, telephone service...) a. Is the contractor required to pay the phone bill for the use of the six telephone lines? If so, what cost for these charges should be placed in our bid?	DS 01520 Article 1.02.F	[Response assumes contractor meant Section 1.06.F] Contractor is required to pay the phone bill for the use of the six telephone lines. Detailed Specification 01520 Article 1.03 contains measurement and payment requirements for the temporary construction facilities and equipment.
6				6	Specification section 1.08.B requires that the trailers we supply be "...of fireproof construction..." It is impossible to construct a mobile construction trailer that is fireproof. Please modify this specification to accurately reflect industry manufacturing standards.	DS 01520 Article 1.08.B	The specification has been revised and now refers to HUD standards for manufactured homes. Provisions for smoke and CO detectors have been added. The revisions are included in Addendum No. 1.
7				7	Drawing M5, note 3 states: "...Natural ventilation is expected thru North and South side existing windows equipped with new louvers and security bars. For details see M-16." Drawing M-16 indicates the details of an aluminum louver being installed in these openings. However; drawing A38 indicates steel window guards are to be installed in these openings, without any louvers, please clarify.	Drawing M16 Drawing A38	Delete louvers shown on M-16. Security bars shall be steel.
8				8	Drawing C179, note 4 states: "Inspect shaft after one inch rainfall to locate ground water leakage into shaft. Grout behind liner to seal leaks." a. What is meant by 'Inspect shaft' and who will perform this inspection? b. There is no quantity or depth given for the hole drilling required to grout behind the liner as a basis for the bid. No separate payment is made for this drilling under any unit price items. Please clarify.	Drawing C179	a. Intermittent through-the-lining leaks exist in the upper half of Shaft 11B after heavy rain events. The intent is for the Engineer, with assistance from the contractor, to inspect the area and determine the locations of the leaks. After the locations of the leaks are determined, the contractor then grouts behind the liner to seal the leaks. b. Detailed Specification 02432 contains measurement and payment items for drilling and grouting in shafts.
9				9	Drawing C120 indicates the installation of 11 removable bollards (K4 crash rating), please provide installation details of these bollards.	Drawing C120	Provide a bollard system designed by the manufacturer to achieve the specified crash rating (see also DS 02890). Install the bollards as detailed by the manufacturer.
10				10	Please refer to Specification 01120, page 12 which lists the Summary of work for shaft 18¼; a. "Remove and reinstall existing cast iron cover" and "Provide new pre-cast cover". Drawings C210 and C210A do not show an existing cast iron cover, they appear to show a concrete cover, there are no notes to indicate whether this is existing or new. Please Clarify. b. "Remove ladder". Drawing C210 does not indicate any existing ladder to be removed, please clarify.	Drawing C210 Drawing C210A DS 01120	The scope of work at this shaft, given in the work summary table in DS 01120, has been revised and is included in Addendum No. 1. a. The existing cover is iron or steel. It is to be removed and replaced with a new concrete cover. b. There is no ladder to remove. The bidders are advised that a platform and sampling equipment are located within this shaft and that they are to be preserved.

FOR INFORMATION ONLY

New Croton Aqueduct Rehabilitation							
Construction Contracts CRO-334G and -334E							
LOG OF BIDDER'S QUESTIONS							
Item	CQ Set#	CONTRACTOR / MANUFACTURER	DATE	ITEM NO.	COMMENT/QUESTION	DRAWING / SPECIFICATION	RESPONSE
11				11	Drawing C217 Indicates "Remove Existing Ladder Rungs (TYP)" for branch Manholes 1, 2 and 3. How deep are each of the manholes?	Drawing C217	Exact depths of Branch Aqueduct Manholes 1, 2 and 3 are not known. Contours are shown on Sheet 40 Drawing C40A; Branch Aqueduct invert elevations are given on Sheet 13 Drawing C9.
12				12	Drawing C129 indicates "Provide New Sliding Cantilever Gates as per Architectural Drawings" and "Remove Existing Chain Link Fence Surrounding Site and Replace with New Fence (See Architectural Drawings)". The drawing does not indicate what type of fence is to be installed or which architectural drawing to look for details. Please clarify.	Drawing C129	Gate and fence are shown on drawing A87.
13				13	Drawings C226, M31 and M32 show the installation of a sump pumps in the blow-off chamber and connecting this work to an existing sewer approximately 100' away. The drawings do not show any details of the existing surface between shaft 24A and the manhole the piping is connected to, nor do they show any required maintenance and protection of traffic measures. Please clarify.	Drawings C226, M31 and M32	The connecting pipe is not in the street, but under the ramp structures.
14				14	Please refer to Specification 01120, page 16 which lists the Summary of work for shaft 25 Blowoff Chamber and Vault Under Harlem River Drive: a. "Clean Sediment and Debris from Chamber and Vault" and "Provide support for the Engineer's inspection of the chamber and vault". There are no drawings showing this location or the contractor's access. Please Clarify. b. "Repair walls, vault and liner as directed by the Engineer." There are no drawings showing the details or location of this work. Please clarify.	DS 01120	a. Access for the chamber and vault is through a door at street level on Harlem River Drive. The chamber was opened for the pre-bid conference. The chamber and vault appear in the sketch section shown on C229. b. Repairs will be developed based upon the Engineer's inspection.
15				15	On page 01520-4(1420) , para. B States " Engineers office in commercial space", while para. D states Engineers office in trailer", which is correct.	DS 01520	Commerical space. The specification has been revised and will be included in Addendum No. 1.
16				16	Where will the "Construction Waste Management Yard be setup, to recycle this many products, 11 dumpsters of varying sizes and 6 to 8 drums will be needed. This takes an area 100ft. x 100ft., a fence to control indiscriminate dumping, and a person to supervise placement in the correct container.	Unknown	DS 01733 requires that the Contractor develop a Construction Waste Management Plan. DS 01750 Article 1.06.A.1 requires that the Contractor schedule trash removal and cleaning operations at intervals as directed by the Engineer to prevent accumulation of dust, dirt, debris, rubbish and waste materials on or within the work or on the premises surrounding the work.
17				17	Page 01560-3, Para. 1.04C Noise Attenuation Fencing, please indicate on which sites this type of fence should be installed.	DS 01560 Article 1.04.C	Detailed Specification 01570 Article 3.04 gives noise requirements. Noise Attenuation Fencing is required where needed to comply with the noise requirements having jurisdiction.
18				18	We have started contacting subcontractors to participate in the bid, is it possible to have another site tour for the subs.		No.
19				19	Mr. Herrick commented yesterday at the pre-bid meeting that the access to Shaft 8 was over private property, we don't find this restriction in the bid documents. Is this the case, and where do we find it in the document?		Sheet 31 Drawing C28 shows swamp land, river, and NYCDEP Property Boundaries at Shaft 8; Sheet 109 Drawing C167 Note 5 provides additional access information.
20				20	A comment was made at the pre-bid meeting concerning payment for the training of the crews needed if Hazardous Material is found. Will the training be paid by the Allowance G-A-1?	DS 01355	Allowance G-A-1 would not be used to pay for training. Remediation work shall be done by certified specialists (Article 1.04.A). No regular contract work shall be scheduled in areas found to contain hazardous materials until the hazard posed by the materials has been remediated.