CONSTRUCTION CONTRACT

ADDENDUM TO THE CONTRACT DOCUMENTS
NUMBER 2

for Furnishing all Labor and Material Necessary and Required for:

Contract: CAT-186

Description: RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE AND REPAIRS TO DR-30, DR-36 AND DR-47

OCTOBER 23, 2015

Michael Baker INTERNATIONAL
TO ALL BIDDERS FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE
SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE AND
REPAIRS TO DR-30, DR-36 AND DR-47

Contract CAT-186

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.

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 City of New York Department of Environmental Protection in writing as soon as possible.

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NOTE:

1. This signature page must be signed, dated, and detached from the book and submitted by the bidder with his/her bid.

Emily Lloyd
Commissioner

I acknowledge receipt of Addendum No. 2 for Contract CAT-186, RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE AND REPAIRS TO DR-30, DR-36 AND DR-47 IN DELAWARE, GREENE AND SCHOHARIE COUNTIES, NEW YORK.

__________________________
NAME OF BIDDER

Signature: __________________________

Signed by: _________________________

Date ____________________________  Addendum to Contract Documents No. 2
CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION

RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE
SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE AND
REPAIRS TO DR-30, DR-36 AND DR-47

Contract CAT-186

This Addendum No. 2 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.

GENERAL INFORMATION

1. **Attachment 1** includes the following:
   - Pre-Bid Attendance Sheet
   - Pre-Bid Presentation
   - Responses to Bidder Questions
   - Bearkill Bridge Yellow Flag 9B15N5W040

INVITATION FOR BID

1. Page 1, Section A – Cover Page and Invitation to Bid Instructions: Under the Bid Information Section, revise “Email questions no later than October 21, 2015” to read “Email questions no later than October 28, 2015 at 4:00PM.”

2. Page 1, Section A – Cover Page and Invitation to Bid Instructions: Under the Bid Date, Time and Location, revise the Bid Date to read “November 4, 2015”. There is no change to the Bid Time.

3. Replace the entire Bid Schedule of Prices with the revised version in **Attachment 2. No other Bid Sheets will be accepted at the Bid Opening.** The changes are to the quantities for DEP Bid Item No. 30 (NYSDOT Item No. 556.0202) (EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES), DEP Bid Item No. 43 (NYSDOT Item No. 570.02) (MEDICAL TESTING), DEP Bid Item No. 44 (NYSDOT Item No. 570.03) (PERSONAL EXPOSURE MONITORING SAMPLE ANALYSIS), DEP Bid Item No.
CONSTRUCTION CONTRACT

DETAILED SPECIFICATIONS


3. Replace Detailed Specification 01310 – Project Coordination, with revised Detailed Specification 01310 – Project Coordination, provided in Attachment 5.


DRAWINGS

The following revised Drawings are provided as Attachment 9:

1. Sheet No. 7 (Drawing No. QUAN-1)
2. Sheet No. 81 (Drawing No. GP-44)
3. Sheet No. 82 (Drawing No. GP-45)
4. Sheet No. 83 (Drawing No. GP-46)
5. Sheet No. 127 (Drawing No. DS-1)
6. Sheet No. 137 (Drawing No. DS-11)
7. Sheet No. 139 (Drawing No. DS-13)
8. Sheet No. 140 (Drawing No. DS-14)
LIST OF ATTACHMENTS

1. Attachment 1: Pre-Bid Conference Attendance Sheet, Presentation, Responses to Bidder Questions and Bearkill Bridge Yellow Flag 9B15N5W040
2. Attachment 2: Bid Schedule of Prices
3. Attachment 3: Detailed Specifications 01110 – Contract Summary
5. Attachment 5: Detailed Specification 01310 – Project Coordination
8. Attachment 8: Detailed Specification 01740 - Cleaning and Site Maintenance
9. Attachment 9: Drawings
ATTACHMENT 1
<table>
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<th>Telephone</th>
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</tbody>
</table>

**MEETING SIGN-IN SHEET**

**Meeting Title:** CAT-186: Pre-Bid Conference  
**Date & Time:** October 14, 2015 @ 10:30 AM  
**Location:** Gilboa Dam Engineer's Trailer, 368 State Route 990V, Gilboa, NY 12076
# MEETING SIGN-IN SHEET

**Meeting Title:** CAT-186: Pre-Bid Conference  
**Date & Time:** October 14, 2015 @ 10:30 AM

**Location:** Gilboa Dam Engineer’s Trailer, 368 State Route 990V, Gilboa, NY 12076  
**File Number:**

<table>
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<tr>
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<th>Company/Organization</th>
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ADDENDUM NO. 2  
Contract CAT-186  
Page 9  
October 23, 2015
CITY OF NEW YORK ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE
SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE
AND REPAIRS TO DR-30, DR-36 AND DR-47

DEP CONSTRUCTION CONTRACT CAT-186
PRE BID CONFERENCE

Prepared By: Michael Baker Engineering, Inc.
October 14, 2015
AGENDA

1. INTRODUCTIONS, SIGN-IN SHEET, SAFETY MOMENT & SECURITY CLEARANCE
2. BID PACKAGE
3. BID OPENING
4. BID ADDENDA
5. OBTAINING PLANS AND SPECIFICATIONS
6. QUESTIONS DURING BID
7. CONTRACT SUMMARY (01110)
8. WORK RESTRICTIONS (01140), LIQUIDATED DAMAGES
9. GENERAL CONTRACT REQUIREMENTS
10. PERMITS
11. HEALTH AND SAFETY REQUIREMENTS
12. REQUIRED SUBMITTALS FOR BIDDING
13. SCHEDULING REQUIREMENT
14. SITE VISIT
15. QUESTIONS

Nothing stated at the pre-bid conference and site visit(s), or written on this agenda shall change the terms and/or conditions of the Invitation For Bid or Contract Documents unless a change is made by written amendment.
1. INTRODUCTIONS

• SIGN-IN SHEET

• AGENCY CONTACT
  – Accountable Manager for Design: Jeffrey Busse, PE; (914) 742-2024; jbusse@dep.nyc.gov
  – Accountable Manager for Construction: Tom Roberts; RobertsT@dep.nyc.gov
  – Construction Manager: DEP – Peter Varner; PVarner@dep.nyc.gov

• ENGINEER
  Michael Baker Engineering Inc.
  – Project Manager: Daniel Warren, P.E.
    dwarren@mbakerintl.com, (914) 539-4761

• SECURITY CLEARANCE

• SAFETY MOMENT
2. BID PACKAGE

• Unit Price, Lump Sum and Allowance

• Allowances:
  – Payment in T&M basis (Art. 26.2 and 26.3 of Standard Construction Contract)
  – Balances of Allowances shall be returned to City as credit.

3. BID OPENING

• Bid opening procedures

• Date: October 28, 2015

• Time: 11:30 AM

• Location: DEP Bid Room
  59-17 Junction Blvd, 17th Floor, Flushing, NY 11373
4. BID ADDENDA
   • Acknowledge receipt on Bid Form
   • Addendum: Addendum #1 released. Addendum #2 Pending.

5. OBTAINING PLANS AND SPECIFICATIONS
   Plan Room: DEP Bid Room
   59-17 Junction Blvd, 17th Floor, Flushing, NY 11373
   (718) 595-3265

6. QUESTIONS DURING BID
   Email questions to Agency Contact
   no later than 4:00PM on Wednesday, October 21, 2015
   Jeffrey Busse, PE, Accountable Manager for Design
   (T) (914) 742-2024
   (E) jbusse@dep.nyc.gov
7. CONTRACT SUMMARY (01110)

• Refer to Detailed Specification 01110 in the contract documents.
• Location of Work (Paragraph 1.03)

Schoharie Reservoir
  1. DEP Road 7 – Roadway and Drainage Improvements
  2. Bearkill Bridge - Replacement
  3. Greene County Route 7, Delaware County Route 53, Schoharie County Route 39 – Culvert Repairs
LOCATION OF WORK
MAINTENANCE AND PROTECTION OF TRAFFIC/CONSTRUCTION STAGING

- Stage 1A - Roadway and Culvert Work from Route 23 to the Private Driveway (Sta. 0+27 to Sta. 14+50) and Replacement of the Bearkill Bridge (Sta. 9+01.24. to Sta. 9+83.74)

- Stage 1B - Roadway and Culvert work from the Private Driveway to the Intake Structure Road (Sta. 14+50 to Sta. 65+00)

- Stage 2A - Roadway and Culvert work from the Intake Structure Road to Gate 22/Gun Club Driveway (Sta. 65+00 to Sta. 121+25)

- Stage 2B - Roadway and Culvert work from Gate 22/Gun Club Driveway to Gate 20 (Sta. 121+25 to Sta. 189+50)

- Stage 2C - Roadway and Culvert work from Gate 20 to Route 30 (Sta. 189+50 to 237+91)

- Stage 3 - Repairs to three (3) culverts on the East side of the Schoharie Reservoir.
MAINTENANCE AND PROTECTION OF TRAFFIC/DETOUR PLAN

- Stage 1A and 1B - Roadway and Culvert Work from Route 23 to the Shandaken Tunnel Intake Chamber (Sta. 0+27 to Sta. 65+00) and Replacement of the Bearkill Bridge

- Stage 2A, 2B, and 2C - Roadway and Culvert work from Shandaken Tunnel Intake Chamber to Route 30 (Sta. 65+00 to Sta. 237+91)
DEP ROAD 7 ROADWAY IMPROVEMENTS

- 4.5 miles of gravel roadway reconstruction divided into 2 sections.

- From State Route 23 to the Intake Road (approximately 1.25 miles), existing 16’ wide road will be reshaped by establishing a crown. Stage 1A and Stage 1B.

- From Intake Road to State Route 30 (approximately 3.25 miles), existing 16’ wide road roadway will be full depth reconstruction. Stage 2A, 2B and 2C.

- Roadway profile has been raised to use the gravel placed from a previous job to improve the subgrade conditions. Drainage of the roadway will be improved by superelevating the roadway sections, installing underdrains, and reshaping roadside ditches.

- Additional improvements include parking areas with bulletin boards that will be constructed near several DEP access gates.
DEP ROAD 7 DRAINAGE IMPROVEMENTS

- Improvements to the drainage culverts and pipes in the project area.
- 10 culverts will be cleaned and repaired as necessary.
- 27 culverts will be removed and replaced.
- Culverts will be replaced with reinforced concrete pipes, with either flared concrete end sections or concrete headwalls.
- 2 new culverts constructed at new locations to improve roadway drainage.
- 7 driveway pipes replaced and 3 new driveway pipes installed with corrugated metal pipes.
- To improve water quality, inlet and outlet basins will be cleaned and regraded. Riprap matting will be installed at select inlets and plunge pools installed at select outlets.
BEARKILL BRIDGE REPLACEMENT – STAGE 1A

- Single span bridge of steel beams and concrete abutments. Decking consists of wood planks covered with asphalt concrete. The bridge measures 53’-6” by 20’-9” and carries two-way traffic, one lane in each direction, with no shoulders. Each lane measures 10’ wide.

- Replacement is proposed to remedy observed deterioration in the bridge structure, to widen the traffic lanes and to provide shoulders on the bridge.

- New bridge will carry two 11-foot lanes and 1 ½ foot shoulders and its width would increase to 29’-4” while the span length would remain the same. It would consist of concrete box beams with a concrete deck supported on new concrete abutments.

- Metal staircase to be removed, stored and reinstalled in the same location.

- Yellow Flag 9B15N5W040 issued on 9/29/15 due to deterioration and corrosion of the girder flanges.
CULVERT REPAIRS – ROADWAY ALONG EAST SIDE OF SCHOHARIE RESERVOIR – STAGE 3

• 3 culverts repaired along the roadways on the east side of the Schoharie Reservoir.

• DR-30 and DR-36 – work will occur at the culvert outlets and will remove the rip-rap that is blocking the culvert and on top of the culvert, construct earth benches and a bottom rock wedge, replace areas of failed rip-rap on the embankment and replace the damaged ROW fence.

• DR-47 – work will remove rip-rap around the culvert inlet and outlet, reposition the headwalls to a stable position at an approximate 45° angle by installing stones to support the slab edges, close the joint between the culvert and collapsed headwall, and reset the rip-rap around the inlet and outlet.
8. WORK RESTRICTIONS (01140)

- Normal Working Hours 7:00 AM to 6:00 PM, Monday Through Friday (Except Holidays)
- Contractor has option to work second shift and/or overtime – Requires Approval
- Compliance with “Quality of Life” including Noise Control, Vibration Control, Dust Control, etc.
- Local Law 77 - Ultra-Low Sulfur Fuel and Emissions Control Technology in Non-Road Vehicles
- Work in and Near Waterways
  - Construction in the Streams is only allowed between June 15 and September 30.
  - Contractor’s Equipment - Vegetable Oil based hydraulic fluid
  - Contractor’s Equipment - Propylene Glycol based antifreeze
- Stage 1B - STA. 45+40 to STA. 58+60 work shall only be performed from September 1st to December 31st due to the presence of endangered/threatened species.
- Tree removals will be completed between October 31 and March 31 due to the potential presence of endangered/threatened species within the project limits.
- Coordination with Contract CAT-212D - Gilboa Dam and Associated Facilities Reconstruction – work at the Shandaken Intake Chamber Driveway.
LIQUIDATED DAMAGES

- Milestones subject to Liquidated Damages:
  - Substantial Completion
    - Time for Completion: 1,095 calendar days
    - Liquidated Damages: $2,500/day

- Final Completion
  - Time for Completion: 540 calendar days
  - Liquidated damages: $0/day

- Other Liquidated Damages
  - Liquidated Damages in Schedule A
9. GENERAL CONTRACT REQUIREMENTS

• Locally Based Enterprise ("LBE") Requirements:
  – The directory of certified M/W/LBEs can be found at www.nyc.gov/buycertified
  – Spec Book, Article 67 of the Construction Contract, Page 88
    • if any portion of the Contract is subcontracted, not less than ten (10%) percent of the total dollar amount of the Contract shall be awarded to LBE's; except that where less than ten (10%) percent of the total dollar amount of the Contract is subcontracted, such lesser percentage shall be so awarded.
    • New York City Certified M/WBE can be used in lieu of an LBE.
  – Invitation for Bid, Page 141 – Forms

• 0% M/WBE Goal

• Prevailing Wages:
  – Labor Law 220 Wage Schedule Applies: (Spec Book, page 141)
  – Daily Sign-in Sheets
  – Certified Payroll Report
  – Picture ID Badges

• Apprenticeship Program

• Executive Order 50 – Employment Report for Award

Agency Contact:
Eugene (Gene) Towba – DEP, Contract Compliance
P: 718-595-3230; E: Etowba@dep.nyc.gov
9. GENERAL CONTRACT REQUIREMENTS – Cont’d

• Site Security, Parking and Access
  – Attachment B “DEP Site Security Guidelines Water Supply Sites for CAT-186” – (Spec Book Page 801)
  – Contractor shall be responsible for providing a secure work zone at all times
  – Permanent site security guards are not required

• Staging Areas
• Water Quality Protection
• Subcontractor Approvals
• Vendor Approvals
9. GENERAL CONTRACT REQUIREMENTS – Cont’d

DEP e-PMIS system – Expectation

1. Access to NYCDEP SOP, Specification, EHS standard and more.

2. Document storage – all project related documents need to be stored in the system.

3. Workflow management – utilizing all applicable workflows (processes) in the system.
   • Key processes are available now: RFI, RFD, NCR, Action Item, Correspondence, Permit Process, Permit Tracking Compliance, etc.,
   • Key processes will be available early 2016: Change Order, Contractor’s partial payment; insurance verification/renewal; subcontractor approval; Line-H deduction, etc.

4. Construction submittals -- to be submitted to system. Review and approval will be routed in system.
9. GENERAL CONTRACT REQUIREMENTS – Cont’d

DEP e-PMIS system – Access and Trainings

1. Attending trainings and getting supports:
   • DEP offers various types of trainings. Most of trainings can be attended via WebEx.
   • DEP offers all types of supports.
10. PERMITS

- USACE Nationwide Permit 3 – Maintenance. Expires 3/18/2017
- NYSDEC – Protections of Waters/Water Quality Certification. Expiration Date: 9/30/2016
- SPDES General Permit for Stormwater Discharges from Construction Activity
- DEP – Crossing, Piping or Diversion Permits - To be obtained by Contractor prior to installation of stream crossing
- NYSDOT Highway Work Permit for Non-Utility Work – To Be Obtained by Contractor – Apply prior to work at intersections with State Route 23 and State Route 30
- Delaware County Department of Public Works – Coordination regarding Bearkill Bridge reconstruction plans, load ratings, schedule and traffic closures.
- Endangered/Threatened Species Restrictions
- Property Easements – Contractor to stay within work limits.
11. HEALTH AND SAFETY REQUIREMENTS

- John Peterson – DEP

**BEDC’s MISSION**

To run the safest most environmentally compliant capital construction program in the United States. No accidents, no harm to people, and no harm to the environment.

**The Five (5) BEDC Core Values:**

- **Safety:** Every day, everyone goes home safe on BEDC projects.

- **Client Service:** BEDC recognizes the operating bureau as our client and strives to meet their needs through quality project delivery and partnerships built on trust and respect.

- **Quality:** BEDC Strives to design high quality projects that are constructed with the finest workmanship to ensure longevity.

- **Budget:** BEDC is committed to spending every capital dollar wisely to deliver high value on behalf of the agency and our rate payers.

- **Schedule:** BEDC Strives to deliver projects when promised – our infrastructure requires timely upgrades to ensure reliable operations and time is money.
CAT-186 Pre-Bid EHS Requirements

11. HEALTH AND SAFETY REQUIREMENTS – Cont’ed

• Contractors MUST READ Specifications
  o EHS Detailed Specification 01356 – CAT-186 Reconstruction of Roadways
  o Highlights of top requirements:
    ▪ Must know and comply with all BEDC SOPs, EHS Standards, and applicable DEP EHS Policies and Procedures in addition to all city, state and federal laws, rules and regulations (found on e-Builder Knowledge Reservoir)
    ▪ Must attend Orientation and 4-hr EHS Standards training
    ▪ Submit Safety Professional, Environmental Professional & one full time EHS Representative, waivers only granted at discretion of DEP
    ▪ Submit Environmental, Health and Safety Plan (EHASP) for review and acceptance
CAT-186 Pre-Bid EHS Requirements

11. HEALTH AND SAFETY REQUIREMENTS – Cont’d

• Pre-Award
  o Pre-award EHS Program and Performance Review Submittal (provided to low bidder, contractor must complete in 5 days)
  o Low bidder must demonstrate knowledge of and commitment to EHS
  o Have a pro-active Corporate EHS program
  o DEP may not award if EMR is greater than 1.0
  o Review, OSHA violations, spills, NOVs, incidents, past DEP EHS evaluations
  o Legacy Information – DEP will provide information on all EHS legacy issues and hazardous materials (01355) at the site. Contractor must inform employees.
11. HEALTH AND SAFETY REQUIREMENTS – Cont’d

- 6 month contractor, SP and SSR EHS Evaluations
- Site sign in and ID requirements
- Contractor orientation checklist (contractor must complete form)
- Contractor training (contractor must complete form certifying they trained workers)
- Reporting
  - Contractor must immediately report to DEP all injuries, spills and accidents
11. HEALTH AND SAFETY REQUIREMENTS – Cont’d

• Obtain and comply with environmental permits including air, water, wastewater, wetland, petroleum/chemical bulk storage.

• Appropriate handling of waste streams

• Required hazardous waste documentation and annual reporting

• Spill prevention and preparedness program

• Chemical inventory tracking and EPCRA reporting

• Develop and Implement Emergency Action Plans/Fire Protection Plans

SMOKING IS NOT PERMITTED ON ALL CONSTRUCTION SITES EXCEPT IN DESIGNATED AREAS
12. REQUIRED SUBMITTALS FOR BIDDING

The following forms, all of which are contained in the Invitation For Bid, are to be completed and submitted with the bid:

- Completed Bid Form
- Bid Security (see Schedule A)
- Apprenticeship Program Questionnaire

13. SCHEDULING REQUIREMENT

- Specifications 01321 – Progress Schedule
- CPM Schedule
- DEP to approve scheduling consultant
- Computerized – utilizing most recent version of Primavera
14. SITE VISIT

- Pre-Bid Meeting
- DR-30
- DR-33 at Gate 21
- Bearkill Bridge and DR-2
15. QUESTIONS
RESPONSES TO QUESTIONS FROM BIDDERS

Questions Received

1. Does a contractor need to be signed up with an Apprenticeship program prior to bid or is it something that can be put into place after bid?

   The Apprenticeship Questionnaire needs to be submitted with the bid. The program must be in existence for a minimum of three years and must be registered with the NYS Department of Labor.

2. Is it possible to re-use the material excavated under Item 203.02 Unclassified Excavation and Disposal, for Item 203.03 Embankment In Place? Is it possible to re-use existing topsoil that is removed under Item 203.02, for Item 610.1402 Topsoil – Roadside? Can an Earthwork Summary be provided?

   Re-use of material excavated under Item 203.02 Unclassified Excavation and Disposal is allowed if the material meets the requirements of a Suitable Material as defined in the NYSDOT Standard Specifications Section 203-1.01. Material excavated under Item 203.02 Unclassified Excavation and Disposal that conforms to §713-01 Topsoil of the NYSDOT Standard Specifications Section is acceptable. An Earthwork Summary will not be provided.

3. Please provide information regarding the LBE requirements included in this project.

   If any portion of the Contract is subcontracted then ten (10%) percent of the total dollar amount of the Contract shall be awarded to LBE’s; except where less than ten (10%) percent of the total dollar amount of the Contract is subcontracted, such lesser percentage must go to an LBE. New York City Certified M/WBE can be used in lieu of an LBE.

4. Please clarify, the contractor is not furnishing a field office for the Engineer, only the equipment specified, and paid for Item 105 DEP-10 Allowance for Resident Engineers Field Office Supplies.

   The contractor will be responsible for the Resident Engineer’s Field Office Trailer as specified in DEP Detailed Specification 01520 – Temporary Construction Facilities. The Resident Engineer’s Field Office Trailer will be paid for under DEP Bid # 96: DEP-1 –
General Requirements. DEP Bid #105: DEP-10 is an allowance only for supplies for the Resident Engineers Field Office.

5. We got the CD-rom today but the drawings appear to be password protected, so we cannot do any page extraction, on-screen take-off, etc. All we can do is basically print. Is there any way we can get the CAD drawings or at a minimum the password in order to use the vectorized PDF drawings (I think they’re vectorized).

Per DEP Standard Operating Procedures the PDF file is required to be security protected with a password. CAD drawings and the password will not be provided.

6. A contractor said that they received the bid documents for CAT-186 and there was no CD. Do you know if CD’s were supposed to be sent along with the hard copies or if we can send them the electronics?

Plans and Specifications including CD’s are available at the DEP Bid Room; 59-17 Junction Blvd., 17th Floor, Flushing, NY 11373 (718) 595-3265.

7. At the Pre-Bid meeting on October 14, it was stated that the contractor for Contract CAT-186 is to coordinate with the contractor for Contract CAT-212D, Gilboa Dam and Associated Facilities Reconstruction. How will the work under Contract D 212D affect the work on CAT-186? Will the Contractor on CAT-212D need to haul material and equipment through the work zone on CAT-186? Specifications Page 452 Section 1.05 A 2. states “The CAT-186 Contractor is advised that DEP Road 7 closures will not be permitted without a coordination letter of approval from the CAT-212D Contractor indicating acceptable periods of road closures and allowable operations.” We are bidding CAT-186 based upon performing the work on DEP Road 7 and the Bearkill Bridge replacement in the two construction stages (5 sub-stages), and subject to other restrictions shown in the Plans and Specifications. Any changes in the allowable closures, due to work by the CAT-212D contractor, post bid, would be a changed condition.

Refer to revised Detailed Specification 01110– Contract Summary, Detailed Specification 01140 – Work Restrictions and Detailed Specification 01310 – Project Coordination regarding coordination with the CAT-212D contract.

8. Under what item in the Proposal is providing and maintaining the Engineer’s Field Office paid for? The Specifications require electrical, and telephone service for the trailer. It is approximately 3400 lineal feet from the closest utility pole to the proposed trailer location at the staging area at Road 7 Station 114+00. Are we to include the cost of extending electrical service and telephone service (for communication, the alarm system and computers) to the Engineer’s office trailer? The Specification states that water shall be provided from the existing water main. Please clarify. Additionally, what provisions should be included for waste water disposal. The Specifications call for the trailer to be supported on a concrete block foundation. Please clarify. What permits are required for the trailer, and what would the cost be. What jurisdiction is responsible for issuing permits for the trailer?

Refer to revised Detailed Specification 01520 – Temporary Construction Facilities for information regarding the Engineer’s Field Office. The Resident Engineer’s Field Office Trailer will be paid for under DEP Bid # 96: DEP-1 – General Requirements. There are
no existing water or sewer mains in the area and the contractor will be responsible for providing water and waste water removal. Permits are not required for the trailer location shown in the contract drawings. The Contractor will be required to coordinate telephone and electric services with the local utility companies.

9. When does the NYCDEP anticipate award of the Contract for this project? Will the award date allow for sufficient time to perform the tree removal required for the road construction prior to the tree removal restriction date of March 31? Note 6 on Plan Sheet 11 states that removal of trees is not limited to those shown on the Plan Sheets and additional trees may be removed A.O.B.E. and paid for under Proposal item DEP-2. Should this not state that any additional trees to be removed (not shown on the Plans) will be paid for under Proposal Item DEP-18, Allowance for Additional Clearing and Grubbing? Will the contractor be responsible for the services of a Licensed Arborist? Will this also be paid under DEP -18?

The contract Notice to Proceed is dependent on the date that the contract is registered. Tree removals are allowed between October 31 and March 31. DEP Bid # 113: DEP-18 – Allowance for Additional Clearing and Grubbing is for unforeseen events such as a major storms. Any additional trees identified for removal by the Resident Engineer will be paid for under DEP Bid # 97: DEP-2 – Clearing and Grubbing. A Licensed Arborist will not be required for this project.

10. Work in the stream associated with the replacement of the Bearkill Bridge is limited to June 15 to September 30. It was stated at the Pre-Bid meeting that the NYCDEP would like to see the Bearkill Bridge replacement to occur in 2016. The Contract Award date must allow sufficient time for preparation of shop drawing and submittals (particularly the precast box beams) approvals and manufacture to meet the stream restriction dates.

The contract Notice to Proceed is dependent on the date that the contract is registered. Work in the Bear Kill is only allowed between June 15 and September 30. The Bearkill Bridge replacement should be completed as soon as possible after the contract is registered.

11. Proposal item 78 (607.19) Right-of-Way Fencing has a quantity of 2,480 LF, however very little is shown on the Plan Sheets. Will this be all small section replacement?

The quantity of Right of Way Fencing has been verified.

12. Since the Specifications state that the contractor is responsible for snow and ice removal from DEP Road 7 from Route 23 to Route 30, and it cannot be predicted how many snow and ice events will occur throughout the duration of the contract, this work should be compensated under an Allowance item, based upon actual cost incurred.

The Contractor shall remove snow and ice from the following areas during the life of the contract, from when construction begins until the final roadway is turned over to DEP along DEP Road Seven from State Route 23 to the STIC Intake Road (Stage 1) and from the STIC Intake Road to State Route 30 (Stage 2) depending upon which Stage the contractor is occupying the roadway for construction. If the contractor shuts down their operations for the winter, then the contractor is required to have the road open and passable and the snow and ice removal will revert back to the local municipalities.
If the road is not passable during the winter, the contractor will be responsible for snow and ice removal for the entire Stage 1 and Stage 2 which contains the section of road that is not passable. This work will be paid for under DEP Bid # 96: DEP-1 – General Requirements.

13. Plan Sheet 81 shows 4” Temporary Binder, Item 402.198.902 to be constructed on Route 7. Will this be paid for under Proposal Item No. 20? Will this need to be removed, at some point, and if so how will the removal be paid?

Refer to revised Plan Sheet 81. The 4” Temporary Binder will be paid for under DEP Bid # 20: 402.198902 – 19 F9 Binder Course HMA, 80 Series Compaction. The temporary binder will need to be removed and will be paid for under DEP Bid # 3: 203.02 – Unclassified Excavation and Disposal.

14. The Stone Slope Stabilization Detail on Plan Sheet 33 lists Station 165+52 – 166+10 RT and 166+60 – 167+35 RT. This is not shown on Plan sheets 67 and 68. Please clarify.

On plan sheets 67 and 68 the stone slope stabilization work is called out as “Riprap Slope for Detail See Dwg. No. MD-4”.

15. Plan Sheet MT-8 states that DR-26b is 18” CMP, Item 603.071218. Plan Sheet DS-1 call this pipe out as Item 603.071118, 15” CMP. Please clarify

Refer to revised Plan Sheets DS-1 and QUAN-1 and the revised Bid Sheet. DR-26B is an existing 18” CMP and will be replaced with an 18” CMP, Item 603.071218.

16. Plan Sheet ST-2, Note F1 states that the Contractor shall cross section the entire project at a 10-foot grid at existing, subgrade and each layer of subbase, etc. Although this note is in the Structure Plans, it references the entire project. Can you clarify that you want the entire project length cross sectioned at 10-foot intervals (4) times? Or is this just in the bridge area? Please clarify.

Refer to revised Plan Sheet ST-2. Only the bridge and approach slabs should be surveyed at a 10 foot grid. The remaining project area should be surveyed in accordance with the requirements of the specifications.

17. Plan Sheets ST-11 and ST-12, Plan and Section A-A, both call out the Structure excavation as being paid under 203.02 Unclassified Excavation. The Legend on these sheets, however, calls the associated line type out as 206.01 Structure Excavation. Please clarify

Refer to revised plan sheets ST-11 and ST-12. The excavation shown on Sheets 11 and 12 that is related to the bridge will be paid under Item 206.01 – Structure Excavation.

18. Plan Sheets ST-11 and ST-12, Plan and Section B-B, both call out the backfill behind the Select Material to be paid under 203.03 Embankment in Place. However, Specification Section 1D Measurement and Payment indicates that both Item 203.03 Embankment in Place and 206.01 Structure Excavation will be measured and paid in accordance with NYS DOT Standard Specifications, which would dictate that the cost of backfill (except Select Materials) would be included in the unit price for 206.01 Structure Excavation. Can you please clarify whether the
intent is to pay the backfill (except select) as Embankment or is it to be bid per NYSDOT Standards?

Refer to revised plan sheets ST-11 and ST-12. Per NYSDOT Bridge Detail sheets and the Specifications, the backfill will be paid under Item 203.21 – Select Structural Fill and Item 203.03 – Embankment in Place.

19. The Bid Form and Bridge Estimate of Quantities on Plan Sheet-1 both reference Item 567.60 Armorless Bridge Joint System. It is our understanding from NYSDOT Specifications and Approved Materials List that this item references various types of Elastomeric Concrete joint systems. We can’t locate any details matching this kind of joint system in the Structure Plans. Can you clarify the intent of this Bid Item?

Refer to plan sheet ST-30 for the joint seal detail. The armorless joint is between the approach slab and the sleeper slab.

20. Note 1. On Plan Sheet No. 139 states “All culverts to be removed, replaced or installed will be constructed during the months from June 15 to September 30 of low flow. Does this not apply to the storm drainage work to be constructed on DEP Road 7, as well?

Refer to revised Plans Sheets DS-11 and DS-13 for the revised note. The restriction only applies to storm drainage work that occurs at protected streams. The protected streams along DEP Road 7 are located at the Bearkill Bridge (Bear Kill) and at DR-24, DR-27 and DR-38. The protected stream along the East Side of the Reservoir is located at DR-36.

21. Plan Sheet No. 138 (DS-12) contains the details for the construction of the new culverts. This detail shows cut off walls under the flared end outlet sections. Please provide details with dimensions for these cut off walls. How are these cut off wall paid?

The details for the cut off walls can be found in the Contract Specifications within the Construction Contract, Attachment A – “New York State Department of Transportation Standard Drawings for CAT-186”, Drawing 603-04: “Cut-off Walls For End Sections”, Page 787. The cut off walls will be paid for under DEP Bid #27: Footing Concrete, Class HP, see note 2 on sheet no. 141 (DS-15).

22. Plan sheet DS-14 shows the detail for the proposed headwalls. This detail refers to the table for the dimensions of the headwall. Please clarify which dimensions apply to the different size pipes. There is a table that shows the length of the footing and headwalls per pipe diameter, but there is no table that shows the remaining dimensions, per the pipe size.

Refer to the table on revised Plan Sheet DS-14 to determine the footing/headwall length and for new or existing culverts and pipes.

The proposed footing stem heights can be determined using the culvert cross sections drawings DS-3 to DS-10 (sheets 129 to 136). The proposed footing widths, toe projections and reinforcement are based on the stem height.
23. Is there an allowance amount for items 570.02, 570.03 per section 1355?

Refer to revised Plan Sheets QUAN-1, ST-1 and the revised Bid Sheet. These contract pay items are designated as direct cost items for which the unit prices are fixed at $1.00 and for which the estimate of quantities and bid amount will be pre-printed in the Bid Schedule of Prices. The bidder should not change these entries. In accordance with specifications, actual payment shall include all reasonable and customary costs incurred based on receipted bills submitted to the Resident Engineer plus 5% for overhead and profit.

24. Specification Section 1D Measurement and Payment, indicates that Item 557.0503 Superstructure Slab w/ Integral Wearing Surface and 557.2003 Superstructure Approach Slab will be measured and paid in accordance with NYSDOT Standards for those items, which dictate that reinforcing steel is incidental to the Item. However, it appears as though that quantity of reinforcing steel has been included in the Bid Form quantity for Item 556.0202 Epoxy-Coated bar Reinforcement. Please clarify.

Refer to revised Plan Sheets QUAN-1, ST-1 and the revised Bid Sheet. The quantity for NYSDOT Item 556.0202 – Epoxy Coated Bar Reinforcement For Structures is being reduced since it is included in the unit price bid for Item 557.0503 - Surface Superstructure Slab with Integral Wearing Surface – Bottom Formwork Not Required – Type 3 Friction and Item 557.2003 - Superstructure Approach Slab with Integral Wearing Surface – Type 3 Friction.

25. Please clarify how Proposal Items 570.02 Medical Testing, and 570.03 Personal Exposure Monitoring Sample Analysis, which both have Units of “Direct Cost” are to be bid.

See response to question 23.

26. With regard to the Insurance, specifically Builders’ Risk w/ Flood Coverage per Standard Construction Contract Article 22.1.4, we have been informed in trying to obtain quotes for this policy that if the work is in certain flood zone designations (high risk) we will be unable to obtain insurance policies w/ flood coverage because the work does not involve a structure (building). Could you please clarify the Flood Zones in which this project will occur?

According to the current FEMA Flood Insurance Rate Map, the Replacement of the Bearkill Bridge and the reconstruction of roadways from approximately STA 5+50 to STA 10+50 falls within Zone A (Special Flood Hazard Area Subject to Inundation by the 1% Annual Chance Flood where no Base Flood Elevations have been determined). Bidders should verify current floodplain information to their satisfaction by referring to the FEMA Flood Insurance Rate Maps at the following website: https://msc.fema.gov/portal

27. We have a question in reference to Item 43 – 570.02 Medical Testing and Item 44 – 570.03 Personal Exposure Monitoring Sample Analysis. Per Standard NYSDOT Spec these two items would be a Fixed Bid Item with the Unit Price set on the bid sheet. Currently they are shown as a “Direct Cost” “Per dollars-cents” Unit with no fixed $’s/unit. Please advise.

See response to question 23.
28. Bid Item DEP 16 – Steep Slope Excavation, the spec for this item states that all work must be performed from the road using dragline crane or other approved methods. Will the contractor be able to access DR 30 along the ROW to access this work?

    Refer to revised Plan Sheet GP-44. The contractor’s access will be dependent upon his means and methods.

29. The Plans do not indicate where Item 83 – 619.1702 Temporary Concrete Barrier (unpinned) with Warning Lights - 420 LF and Item 84 – 619.1802 Temporary Impact Attenuator - 4 Each are to be utilized. Please advise.

    Refer to Plan Sheets revised plans sheets GP-44, GP-45, and GP-46 the location of Item 619.1702 – Temporary Concrete Barrier (unpinned) with Warning Lights for Work Zone Traffic Control at the Bearkill Bridge and Item 619.1802 – Temporary Impact Attenuator. Refer to Plan Sheet ST-9 for the location of Item 619.1702 – Temporary Concrete Barrier (unpinned) with Warning Lights for Work Zone Traffic Control at the Bearkill Bridge.

Questions from Pre-Bid Meeting

30. Have trees been topped at the Bearkill Bridge. Are tree removals required at the Bearkill Bridge? Are trees of a certain diameter allowed during the restriction period?

    Trees have not been topped at the Bearkill Bridge. Any tree removals required at the Bearkill Bridge will need to be done between October 31 and March 31. Trees ≥ 3 inches dbh will not be allowed to be removed during the restriction period.

31. Clarify the snowplowing requirements in the Contract documents.

    See response to question 12.

32. What does “Contractor to Minimize Disturbance to Sensitive Area” mean?

    Refer to General Note 4 on Plan Sheet P-1.

33. Where is the 2,480 LF of Right of Way Fencing?

    See response to question 11.

34. Will the bid opening deadline be extended?

    The deadline will be extended to November 4, 2015. DEP will evaluate as bidders questions are received.

35. Is the 2% deposit listed in Schedule A different than the retainage required for the maintenance period?

    In accordance with Article 24 of the Standard Construction Contract the 2% deposit and retainage are the same.
36. Where will the power for construction trailers come from?

*See response to question 8.*
New York State
Department of Transportation
Flagged Structure Report

Yellow Flag 9B15N5W040  By: Paul Amidon  Flag Date: September 29, 2015
Superseding Information: This flag supersedes 9H140025

Structure Information
BIN: 3353220
Region: 09  County: DELAWARE  Locality: Town of ROXBURY
Feature Carried: INTAKE ROAD  Feature Crossed: BEAR KILL
Approximate Year Built: 1976  Orientation: 1 - NORTH
Bridge is not owned or maintained by New York State
Number of Spans: 1  Typical or Main Span Type: 3 - Steel - 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp

Flagged Element
Span Number: 1  Element: Superstructure  Sub Element: Primary Members  Rating: 4

Flagged Condition Description
2015 - All 6 steel girders exhibit corrosion and section loss along both the top and bottom flanges. See table below for the readings taken at midspan during this inspection:

Girder # / Bottom Flange Loss / Top Flange Loss
----------------------------------------------------------------------------------------
Girder 2 / 41% / 20%
Girder 5 / 33% / 20%

The section losses are similar to the 2014 inspection.
The other interior girders have approx. 30% section loss to their bottom flanges and approx. 20% section loss to their top.

Significance: Continued deterioration and corrosion of the girder bottom flanges in maximum moment areas could lead to deformation or bending failure of the primary members.
Yellow Flag 9B15N5W040 By: Paul Amidon Flag Date: September 29, 2015

Attachments: 7

Verbal Notification Information

Person Notified: Not Contacted
Of:
Date/Time: 

Signature Information

Signature: Paul Amidon, P.E. 058236-1
Signature Date: September 30, 2015 07:52 AM
Girder G2 w/ flange loss
Girder G2 w/ flange loss general view

[Image: 15Photo-09.JPG]
Yellow Flag 9B15N5W040  
By: Paul Amidon  
Flag Date: September 29, 2015

Girder G5 w/ flange loss
Yellow Flag 9B15N5W040  By: Paul Amidon  Flag Date: September 29, 2015

Girder G5 w/ flange loss

15Photo-11.JPG
Yellow Flag 9B15N5W040  By: Paul Amidon  Flag Date: September 29, 2015

Girder G5 w/ flange loss general view

15Photo-12.JPG
BIN: 9/3 3353220

DATE: 9/29/15

SECTION LOSS
DOCUMENTATION
FOR A LOCALIZED AREA

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<th>Location</th>
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<td>Date</td>
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<td>TR</td>
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Year Notes: *Indicates there were no readings taken for the girder in that particular year.
2015 - Top flange readings were taken on one side only, the opposing side was assumed to be equivalent.

NOTES:
1. Not all of the web data needs to be input but W1, H1 and W5 need to be input as a minimum to calculate web section loss.
2. Dimension "H" is automatically calculated as the remainder of the web based upon the dimensions given for "W1" through "W4".
3. For holes in the web, 0.00 should be input as a "W" dimension and the corresponding "H" range input as the height of the hole.
4. For holes in the flanges, the width of the hole should be input under the "holes" column for the applicable flange.
ATTACHMENT 2 – BID SCHEDULE

No other Bid Sheets will be accepted at the Bid Opening.
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<td>SUBBASE COURSE, TYPE 2</td>
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<tr>
<td>18</td>
<td>402.12</td>
<td>12.5 F9 TOP COURSE HMA, SHOULDER COURSE, 80 SERIES COMPACITION</td>
<td></td>
<td></td>
<td>Ton</td>
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</tr>
<tr>
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<td></td>
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<td>per ton</td>
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<tr>
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<tr>
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<td>19 F9 BINDER COURSE HMA, 80 SERIES COMPACITION</td>
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<td>402.37</td>
<td>37.5 F9 BASE COURSE HMA, 80 SERIES COMPACITION</td>
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<td>24</td>
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<td>Col. 3 Description of Work</td>
<td>Col. 4 Unit</td>
<td>Col. 5 Estimated Quantity</td>
<td>Col. 6 Price per unit</td>
<td>Col. 7 Total Price</td>
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<tr>
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<td>31</td>
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<td>190</td>
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<td>557.0003</td>
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<td>33</td>
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<td>LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE</td>
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<td>559.16900118</td>
<td>PROTECTIVE SEALING OF STRUCTURAL CONCRETE</td>
<td>Square Foot</td>
<td>10,210</td>
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<td>35</td>
<td>559.18901118</td>
<td>PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS</td>
<td>Square Foot</td>
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<td>36</td>
<td>559.90010011</td>
<td>ANTI-GRAFFITI PROTECTION COATING</td>
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<td>PRESTRESSED CONCRETE BOX BEAM UNITS</td>
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<td>Each</td>
<td>14</td>
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<td>567.60</td>
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<td>54</td>
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<td>DEP Bid #</td>
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<td>Lump Sum</td>
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<td>43</td>
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<td>Direct Cost</td>
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<td>PERSONAL EXPOSURE MONITORING SAMPLE ANALYSIS</td>
<td>Direct Cost</td>
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<td>DECONTAMINATION FACILITIES</td>
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<td>46</td>
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<td>CLASS B CONTAINMENT FOR PAINT REMOVAL</td>
<td>Lump Sum</td>
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<td>47</td>
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<td>DISPOSAL OF HAZARDOUS PAINT WASTE CONTAINING LEAD</td>
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<td>Cubic Yard</td>
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<tr>
<td>49</td>
<td>582.05</td>
<td>REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE</td>
<td>Cubic Yard</td>
<td>15</td>
<td>$</td>
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<td>50</td>
<td>582.07</td>
<td>REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH VERTICAL AND OVERHEAD PATCHING MATERIAL</td>
<td>Square Foot</td>
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<td>51</td>
<td>586.02</td>
<td>DRILLING AND GROUTING BOLTS, OR REINFORCING BARS</td>
<td>Each</td>
<td>130</td>
<td>$</td>
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<tr>
<td>52</td>
<td>603.071118</td>
<td>CORRUGATED STEEL PIPE, FULLY PAVED (2-2/3” X 1/2” CORRUGATIONS) 15 INCH DIAMETER, 18 GAUGE</td>
<td>Linear Foot</td>
<td>133</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Col. 1</td>
<td>Col. 2</td>
<td>Col. 3</td>
<td>Col. 4</td>
<td>Col. 5</td>
<td>Col. 6</td>
<td>Col. 7</td>
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<tr>
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</tr>
<tr>
<td>DEP</td>
<td>NYSDOT</td>
<td>Description of Work</td>
<td>Unit</td>
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<td>Total Price</td>
</tr>
<tr>
<td>Bid #</td>
<td>Item #</td>
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<td>Quantity</td>
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<td>Price</td>
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<tr>
<td>53</td>
<td>603.071218</td>
<td>CORRUGATED STEEL PIPE, FULLY PAVED (2-2/3&quot; X 1/2&quot; CORRUGATIONS) 18 INCH DIAMETER, 18 GAUGE</td>
<td>Linear Foot</td>
<td>92</td>
<td>$</td>
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<tr>
<td>54</td>
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<tr>
<td>55</td>
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<td>REINFORCED CONCRETE PIPE CLASS III, 30 INCH DIAMETER</td>
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<td>56</td>
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<td>Linear Foot</td>
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<td>57</td>
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<tr>
<td>Item #</td>
<td>Description of Work</td>
<td>Unit</td>
<td>Quantity</td>
<td>Price per Unit</td>
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<td></td>
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<tr>
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<tr>
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<td>RIGHT-OF-WAY FENCING</td>
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<td>Col. 5</td>
<td>Col. 6</td>
<td>Col. 7</td>
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</tr>
<tr>
<td>DEP</td>
<td>NYS DOT</td>
<td>Description of Work</td>
<td>Unit</td>
<td>Estimated Quantity</td>
<td>Unit</td>
<td>Price</td>
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<tr>
<td>79</td>
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<td>Cubic Yard</td>
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<td>83</td>
<td>619.1702</td>
<td>TEMPORARY CONCRETE BARRIER (UNPINNED) WITH WARNING LIGHTS</td>
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<td>87</td>
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<td>RESET EXISTING STONE FILLING</td>
<td>Square Yard</td>
<td>530</td>
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<tr>
<td>88</td>
<td>621.01</td>
<td>CLEANING CULVERTS WITH SPAN OF 50 IN. OR LESS</td>
<td>Linear Foot</td>
<td>810</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>89</td>
<td>623.10</td>
<td>/screened gravel (in-place measure)</td>
<td>Cubic Yard</td>
<td>90</td>
<td>$</td>
<td>$</td>
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<tr>
<td>90</td>
<td>623.11</td>
<td>CRUSHED GRAVEL (IN-PLACE MEASURE)</td>
<td>Cubic Yard</td>
<td>100</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>91</td>
<td>625.01</td>
<td>SURVEY OPERATIONS</td>
<td>Lump Sum</td>
<td>1</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Col. 1</td>
<td>Col. 2</td>
<td>Col. 3</td>
<td>Col. 4</td>
<td>Col. 5</td>
<td>Col. 6</td>
<td>Col. 7</td>
</tr>
<tr>
<td>-------</td>
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<td>-------</td>
<td>-------</td>
<td>-------</td>
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<tr>
<td>DEP</td>
<td>NYSDOT</td>
<td>Description of Work</td>
<td>Unit</td>
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<td>Unit Price</td>
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<td>92</td>
<td>637.03</td>
<td>CONCRETE CYLINDER CURING BOX</td>
<td>Each</td>
<td>2</td>
<td>$</td>
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<tr>
<td>93</td>
<td>645.81</td>
<td>TYPE A SIGN POSTS</td>
<td>Each</td>
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<td>94</td>
<td>646.22</td>
<td>DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS</td>
<td>Each</td>
<td>78</td>
<td>$</td>
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<tr>
<td>95</td>
<td>647.31</td>
<td>RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)</td>
<td>Each</td>
<td>12</td>
<td>$</td>
<td>$</td>
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<td>DEP-1</td>
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<td>$</td>
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<td>97</td>
<td>DEP-2</td>
<td>CLEARING AND GRUBBING</td>
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<td>$</td>
<td>$</td>
</tr>
<tr>
<td>98</td>
<td>DEP-3</td>
<td>NOT IN CONTRACT</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>99</td>
<td>DEP-4</td>
<td>MISCELLANEOUS SOIL AND EROSION AND PROTECTION WORK</td>
<td>Lump Sum</td>
<td>1</td>
<td>$</td>
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<tr>
<td>100</td>
<td>DEP-5</td>
<td>BLAZE ORANGE SAFETY FENCE</td>
<td>Linear Foot</td>
<td>48,200</td>
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<td>$</td>
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<tr>
<td>101</td>
<td>DEP-6</td>
<td>INSPECTION AND TESTING SERVICES</td>
<td>Lump Sum</td>
<td>1</td>
<td>$</td>
<td>$</td>
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<tr>
<td>102</td>
<td>DEP-7</td>
<td>ALLOWANCE FOR ADDITIONAL MISCELLANEOUS SOIL AND EROSION PROTECTION WORK</td>
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<tr>
<td>103</td>
<td>DEP-8</td>
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<td>$75,000.00</td>
<td>$75,000.00</td>
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<td>104</td>
<td>DEP-9</td>
<td>REMOVE, STORE AND REINSTALL EXISTING METAL STAIRCASE</td>
<td>Each</td>
<td>1</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Col. 1</td>
<td>Col. 2</td>
<td>Col. 3</td>
<td>Col. 4</td>
<td>Col. 5</td>
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<td>DEP</td>
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<td>Description of Work</td>
<td>Unit</td>
<td>Estimated</td>
<td>Price</td>
<td>Total</td>
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<td>NYSDOT</td>
<td>Item</td>
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<td>Quantity</td>
<td>Price</td>
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<tr>
<td>105</td>
<td>DEP-10</td>
<td>ALLOWANCE FOR RESIDENT ENGINEER'S FIELD OFFICE SUPPLIES</td>
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<td>1</td>
<td>$ 20,000.00</td>
<td>$ 20,000.00</td>
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<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>106</td>
<td>DEP-11</td>
<td>ESTABLISHING TURF</td>
<td>Acre</td>
<td>6.5</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td></td>
<td>per acre</td>
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<tr>
<td>107</td>
<td>DEP-12</td>
<td>LOCAL ROAD GRAVEL SURFACE COURSE, TYPE A</td>
<td>Cubic Yard</td>
<td>5,394</td>
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<td></td>
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<td></td>
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<td></td>
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<tr>
<td>108</td>
<td>DEP-13</td>
<td>LOCAL ROAD GRAVEL BASE COURSE, TYPE B</td>
<td>Cubic Yard</td>
<td>10,188</td>
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<td></td>
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<tr>
<td>109</td>
<td>DEP-14</td>
<td>FREE STANDING BULLETIN BOARD</td>
<td>Each</td>
<td>7</td>
<td>$</td>
<td>$</td>
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<tr>
<td></td>
<td></td>
<td>per each</td>
<td></td>
<td></td>
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<tr>
<td>110</td>
<td>DEP-15</td>
<td>ROCK EXCAVATION</td>
<td>Cubic Yard</td>
<td>300</td>
<td>$</td>
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<td></td>
<td></td>
<td>per cubic yard</td>
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<tr>
<td>111</td>
<td>DEP-16</td>
<td>STEEP SLOPE UNCLASSIFIED EXCAVATION AND DISPOSAL</td>
<td>Cubic Yard</td>
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<td></td>
<td></td>
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<td>112</td>
<td>DEP-17</td>
<td>TIMBER POSTS</td>
<td>Each</td>
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<td>$</td>
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<tr>
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<td></td>
<td>per each</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>113</td>
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<td>ALLOWANCE FOR ADDITIONAL CLEARING AND GRUBBING</td>
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<td>$ 25,000.00</td>
<td>$ 25,000.00</td>
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<tr>
<td></td>
<td></td>
<td>per allowance</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>114</td>
<td>DEP-19</td>
<td>ALLOWANCE FOR REMOVAL AND DISPOSAL OF UNFORSEEN HAZARDOUS CONTAINING MATERIALS</td>
<td>Allowance</td>
<td>1</td>
<td>$ 30,000.00</td>
<td>$ 30,000.00</td>
</tr>
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<td></td>
<td></td>
<td>per allowance</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>115</td>
<td>699.040001</td>
<td>MOBILIZATION</td>
<td>Lump Sum</td>
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<td>$</td>
<td>$</td>
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<tr>
<td></td>
<td></td>
<td>per lump sum</td>
<td></td>
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</tr>
</tbody>
</table>

NOTE: THE TOTAL AMOUNT BID SHALL BE ENTERED ON PAGE B-7.
ATTACHMENT 3
PART 1 GENERAL

1.01 SECTION INCLUDES

A. The Contractor is advised that the Detailed Specifications of Division 1 - General Requirements are applicable to the entire Contract.

B. General contractor

C. Location of Work.

D. Work included under Contract CAT-186

E. Other construction contracts.

F. Inspection before bidding.

G. Site characterization reports and information.

H. Datum plane.

I. Work to proceed with diligence and dispatch

1.02 GENERAL CONTRACTOR

A. When specified in the Contract Documents, the term “Contractor”, “General Contractor”, “Structures and Equipment Contractor”, “Electrical Contractor”, “Plumbing Contractor”, and “HVAC Contractor” shall refer to the Contractor for Contract CAT-186, Reconstruction of Roadways Along the West Side of the Schoharie Reservoir and Replacement of Bearkill Bridge and Repairs to DR-30, DR-36 and DR-47.


1.03 LOCATION OF WORK

A. The location of the Work to be performed under Contract CAT-186 is the roadway along the west side of the Schoharie Reservoir consisting of DEP Road 7 in the Town of Roxbury in Delaware County, DEP Road 7 in the Town of Gilboa in Schoharie County and the Bearkill Bridge in the Town of...
Roxbury in Delaware County. The contract shall include 4.5 miles of roadway reconstruction in both Delaware and Schoharie Counties. The contract also includes repairs to culverts DR 30, 36 and 47 located on the east side of the Schoharie Reservoir along Greene County Route 7 from the intersection of NYS Route 23 in the Town of Prattsville north to Delaware County Route 53, north to Greene County Route 7, and then north to Schoharie County Route 39 in the Town of Gilboa.

The Contractor's attention is directed to the fact that the Work to be performed under this Contract is adjacent to the Schoharie Reservoir owned by the DEP. It is, therefore, mandatory that care and all precautionary measures as specified within these Specifications must be exercised in addition to rules and regulations governing safety requirements set by other agencies.

1.04 CONTRACT CAT-186, RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE AND REPAIRS TO DR-30, DR-36 AND DR-47

A. Work Included:

The Work under this Contract includes the necessary labor, material and equipment for four types of improvements along the roadways around the Schoharie Reservoir. There will be 4.5 miles of gravel roadway reconstruction DEP Road 7 located on the west side of the Schoharie Reservoir. Drainage improvements will also be made to this section of roadway. The Bearkill Bridge will be replaced with a new structure to remedy observed deterioration in the bridge structure, to widen the traffic lanes and to provide shoulders on the bridge. There will be three culverts repaired along the roadway on the east side of the Schoharie Reservoir. The following is a general description only, and shall not be construed as a complete description of the Work to be performed.

B. Principal Items of Work:

Roadway

DEP Road 7 will have 4.5 miles of gravel roadway reconstructed. The roadway Work is divided into 2 sections. From State Route 23 to the Intake Road (approximately 1.25 miles), the existing 16’ wide road will be reshaped by establishing a crown with NYSDOT Item 667.01 Local Road Gravel Surface Course, Type A. From the Intake Road to State Route 30 (approximately 3.25 miles), the existing 16’ wide road roadway will be
reconstructed full depth with 4” NYSDOT Item 667.01 Local Road Gravel Surface Course, Type A and 8” NYSDOT Item 667.02 Local Road Gravel Base Course, Type B. The roadway profile has been raised to use the gravel placed from a previous job to improve the subgrade conditions. Drainage of the roadway will be improved by superelevating the roadway sections, installing underdrains, and reshaping roadside ditches.

Additional improvements include parking areas with bulletin boards that will be constructed near several DEP access gates. Areas impacted by construction will receive specific seed mixtures.

Drainage Improvements

Improvements will be made to the drainage culverts and pipes in the project area. There are 10 culverts that will be cleaned and repaired as necessary. There will be 27 culverts that will be removed and replaced. All culverts will be replaced with reinforced concrete pipes, and most will have flared concrete end sections. There will be 2 new culverts constructed at new locations to improve roadway drainage. There will be 7 driveway pipes replaced and 3 new driveway pipes installed. Driveway pipes will be replaced with corrugated metal pipes. To improve water quality, inlet and outlet basins will be cleaned and regraded. Riprap matting will be installed at select inlets and plunge pools installed at select outlets. Concrete headwalls will be replaced or reconstructed at 35 locations instead of flared outlet section due to space limitations caused by steep uphill cut slopes.

Bearkill Bridge

The Bearkill Bridge is a single span bridge of steel beams and concrete abutments. Decking carried by the steel beams consists of wood planks covered with asphalt concrete. The bridge measures 53’-6” by 20’-9” and carries two-way traffic, one lane in each direction, with no shoulders. Each lane measures 10’ wide. The bridge replacement is being proposed to remedy observed deterioration in the bridge structure, to widen the traffic lanes and to provide shoulders on the bridge. The new bridge would carry two 11-foot lanes and 1 ½ foot shoulders and its width would increase to 29’-4” while the span length would remain the same. It would consist of concrete box beams with a concrete deck supported on new concrete abutments. A short length of guide rail would be installed at the southeast approach to the bridge, where the land adjoining the roadway has a steep slope. As a result of the nine-foot increase in the bridge’s width, the bridge footprint would increase by approximately 500 square feet.
Culvert Repairs – Roadway Along East Side Of Schoharie Reservoir

There will be 3 culverts repaired along the roadways on the east side of the Schoharie Reservoir. The Work at DR-30 and DR-36 will occur at the culvert outlets and will remove the rip-rap that is blocking the culvert and on top of the culvert, construct earth benches and a bottom rock wedge, replace areas of failed rip-rap on the embankment and replace the damaged ROW fence. The Work at DR-47 will remove rip-rap around the culvert inlet and outlet, reposition the headwalls to a stable position at an approximate 45° angle by installing stones to support the slab edges, close the joint between the culvert and collapsed headwall, and reset the rip-rap around the inlet and outlet.

Maintenance and Protection of Traffic

Maintenance of traffic will be provided in conformance with Federal MUTCD requirements and the New York State Supplement to the MUTCD. For the reconstruction of roadways along the west side of the Schoharie Reservoir and of Bearkill Bridge, sections of roadway will be fully closed during construction as shown on the Contract Drawings. Access to the Shandaken Tunnel Intake Channel Driveway shall be provided at all times.

The Work in this project is estimated to take 36 months. It would be performed in two stages, each with several sub-stages, under full roadway closures due to limited width of the roadway and low traffic volumes. The roadway is approximately 16’ wide and contains limited areas adjacent to the roadway to provide storage for construction vehicles and materials, or temporary access to through traffic. There is not enough roadway width to allow ongoing construction activities while maintaining a single lane of alternating traffic with the use of flaggers. Construction operations involving deep excavations for culvert replacements and subgrade improvements would be difficult to return to a safe condition on a daily basis that would allow through traffic to use the road during late afternoon and evening hours and overnight.

Stage I consists of replacement of the Bearkill Bridge and reconstruction of Road 7 from the State Route 23 north to the Intake Road, including all culvert and drainage improvement Work, while access to the remaining segment of Road 7 and Intake Road will be available from the north terminus (State Route 30). Stage I is divided into two sub-stages to allow continuous access to the private driveway leading to houses located approximately 550’ north of the Bearkill Bridge. One sub-stage closes the road from Route 23 to the private driveway and includes the Bearkill Bridge replacement and the slope stabilization at the southern end of the project. The second sub-stage closes the road from the private driveway north to the Intake Road.
Stage II includes reconstruction of Road 7 from the Intake Road north to the State Route 30, including all culverts and drainage improvement Work in that segment. Access to Intake Road will be available from the south terminus (State Route 23) of Road 7 during Stage II. Stage II is divided into three sub-stages to allow continuous access to Gate 20, and Gate 22 and the Gun Club driveway. One sub-stage closes the road from the Intake Road north to Gate 22 and the Gun Club Road. The second sub-stage closes the road from Gate 22 and the Gun Club Road north to Gate 20. The third sub-stage closes the road from Gate 20 north to Route 30.

Work to repair culverts DR-30, 36 and 47 located on the east side of the Schoharie Reservoir will be done utilizing the typical daily lane closure with flagging operation. Work should be done at only one culvert location at a time. Work on the culverts should be done during the first full construction season.

The Contractor shall provide an adequate number of flaggers, employed at its own expense, to control the movement of vehicles and equipment. Safety measures such as construction barricades, barrels, cones, traffic signs, temporary fences, and others as required will be provided for the duration of the Contract to ensure proper safeguard and protection of persons and properties.

The Contractor shall familiarize himself with the travel route in the area of the project site. The Contractor shall construct and maintain a parking area at the project site, or other nearby location approved by the Resident Engineer. No parking will be permitted on public roads.

Before the start of any heavy construction at the project site, the Contractor shall prepare and submit a Construction Traffic Plan for approval by the Resident Engineer and Town Highway Superintendents of the affected towns. This plan shall specify the routes that Contractor's trucks and other heavy equipment will follow between the project site and off-site material sources and disposal areas. Contractor is cautioned that truck traffic through local streets and commercial areas may be restricted.

Prior to the closing of the road or detouring of traffic, or lane takings, the contractor shall notify local police, fire, school districts and emergency services of the pending closure.

C. The Contractor shall coordinate the Work for the Contract as listed hereinbefore and as outlined in Article 18 of the General Conditions.

D. Work under the Contract shall also include furnishing the services of manufacturer's technical representatives, for the equipment furnished under 01110-5.
the Contract, for assistance in installation, start-up and conducting training of the operating personnel.

E. All Work shall be done in accordance with the Contract Documents for Contract CAT-186.

1.05 OTHER CONSTRUCTION CONTRACTS

A. Contract CAT-212D, Gilboa Dam and Associated Facilities Reconstruction will be in progress sometime during the duration of CAT-186. Construction activities for CAT-212D include but are not limited to the following activities at the Shandaken Tunnel Intake Channel (STIC) Building Driveway: construction of concrete pavement at driveway entrance, driveway resurfacing, installation of automated security gate, temporary guard shack during construction, and reconstruction of roadway culverts and drainage ditches.

1. Construction activities for CAT-212D are in the vicinity of the CAT-186 project area as listed below.

<table>
<thead>
<tr>
<th>STATION</th>
<th>Location/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>64+00</td>
<td>STIC driveway reconstruction and installation of automated security gate</td>
</tr>
<tr>
<td>64+45</td>
<td>Culvert DR-12/RD7-02 – to be constructed under Contract CAT-212D</td>
</tr>
<tr>
<td>66+61</td>
<td>Culvert DR-13/RD7-03 to be constructed under Contract CAT-186</td>
</tr>
</tbody>
</table>

2. The Contractor is advised that the CAT-212D Contractor shall have shared use of Road 7 / Intake Road and shall at times require site deliveries to the Intake Road. The Contractor shall coordinate all construction traffic and road shutdowns with the CAT-212D Contractor to ensure that the STIC is accessible via Road 7 / Intake Road. No extra compensation shall be provided due to road openings/closures associated with CAT-212D delivery activities.

1.06 INSPECTION BEFORE BIDDING

A. Before bidding, it is recommended that the Contractors attend the Pre-Bid Conference regarding the project. The Contractors shall obtain all necessary information of any and all conditions which may affect in any way the performance of their Work and their bid prices under this Contract.
1.07 SITE CHARACTERIZATION REPORTS AND INFORMATION

A. Information issued with the Contract Documents include:

Contract Drawings - One (1) set of Contract Drawings, numbered from Sheet No. 1 to Sheet No. 180.

Boring logs are available, see Attachment F for Geotechnical Report.

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

RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE
SCHOHARIE RESERVOIR AND REPLACEMENT OF BEARKILL BRIDGE AND
REPAIRS TO DR-30, DR-36 AND DR-47
DELAWARE, GREENE AND SCHOHARIE COUNTIES, NEW YORK

CONTRACT CAT-186 CONTRACT DRAWINGS
JULY 2015

Permit Packages - The permits, permit applications and related correspondence with the U.S. Army Corps of Engineers, and the New York State Department of Environmental Conservation, are available. (See Attachment C “SEQR Determination and Permits”)

B. Information not issued with the Contract Drawings but available for inspection include:

Cross Sections – Roadway cross sections taken at 50’ intervals are available for review.

Topographic Maps - Topographic survey maps of the Project area with 2 foot contour intervals are available for review.


Stormwater Pollution Prevention Plan (SWPPP) - In connection with the filing of a Notice of Intent (NOI) for storm water discharge associated with construction activity with New York State Department of Environmental Conservation, Stormwater Pollution Prevention Plans (SWPPP) are on file and are available for review.

C. Pertinent drawings, reports or other information about the Reconstruction of 01110-7
Roadways Along the West Side of the Schoharie Reservoir and Replacement of Bearkill Bridge and Repairs to DR-30, DR-36 and DR-47 of potential interest to the Contractor can be examined at the DEP's office:

New York City Department of Environmental Protection  
Bureau of Engineering Design and Construction  
465 Columbus Avenue, Suite 350  
Valhalla, NY 10595-1336  
Contact: Mr. Jeffrey A. Busse, P.E.  
Telephone: 914-742-2024  
Email: jbusse@dep.nyc.gov

D. The Contractor shall verify all dimensions and elevations in the field and resolve all discrepancies with the Engineer of Record before fabrication and construction begins.

1.08 DATUM PLANE

A. All elevations refer to an assumed datum established by the projects surveyor during design.

1.09 WORK TO PROCEED WITH DILIGENCE AND DISPATCH

A. The Contractor expressly agrees that it shall commence, proceed with and finish construction under its Contract so that Substantial Completion is achieved in all respects within its specified Time for Completion and any and all remaining Work hereunder is completed promptly thereafter. The Contractor’s attention is directed particularly to General Conditions – Schedule “A” and to the Detailed Specifications, including without limitation, Detailed Specifications 01140 - Work Restrictions, 01310 - Project Coordination, and 01321 - Progress Schedule.

B. It is agreed that all Work shall be executed at such time(s) and in or on such parts of the Contract and with sufficient work force(s), materials, and equipment, so as to assure timely completion of Substantial Completion, as well as the swift completion of all Work hereunder.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)
NO TEXT ON THIS PAGE
ATTACHMENT 4
SECTION 01140
Work Restrictions

PART 1  GENERAL

1.01  SECTION INCLUDES

A. Period of Performance
B. Normal Project Working Hours
C. Compliance with Qualify of Life Requirements
D. Emission Control Technology for Non-Road Vehicles
E. Special Requirements for Work in and Near Waterways

1.02  RELATED DOCUMENTS

A. Detailed Specification 01110 - Contract Summary
B. Detailed Specification 01321 - Progress Schedule

1.03  PERIOD OF PERFORMANCE FOR THE WORK

A. The period of performance is given in consecutive calendar days in Schedule A, General Conditions. The Contractor is limited to working at sites throughout the duration of the Contract, within the normal working hours and seasonal restrictions noted.

B. The Contractor is directed that Work shall only be performed from STA. 45+40 to STA. 58+60 from September 1st to December 31st due to the presence of endangered species. Construction vehicles that must pass through this area from January 1st to August 31st will be directed to pass through as quietly as possible without idling or blowing their horn.

C. The Contractor is directed that all tree removals will be completed between October 31 and March 31 due the potential presence of the northern long-eared bat within the project limits.

1.04  NORMAL PROJECT WORKING HOURS

A. "Normal Project Working Hours" for the Contracts shall be the hours between 7:00 AM and 6:00 PM, Monday through Friday (except for

01140-1  CAT-186
holidays) and coordinated with local officials. Work outside the Normal Project Working Hours, in conformance with union labor agreements and applicable laws, codes and rules, may be necessary for timely completion of the Work. The cost for any Work performed outside the Normal Project Working Hours shall be considered to be, and the Contractor expressly agrees that it shall be deemed to be, included in the total price bid for the Contract.

B. Work shall be performed to the extent possible during Normal Project Working Hours. However, the Contractors are advised that additional second shifts or scheduled overtime may be necessary for timely completion of Work.

C. All of the Work required in the Contract shall be completed (as defined where applicable in Article 14 of the Standard Construction Contract) within the Period of Performance specified in the Schedule “A” of General Conditions and in strict accordance with the Drawings, General Conditions, and General and Detailed Specifications.

D. If the Contractor for any reason fails to adhere to the Project schedule, as required in Detailed Specification 01321 – Progress Schedule, the Contractor must promptly adopt such other or additional means and methods of construction as will make up for the time lost and will assure completion of the Work within the Period of Performance. DEP may require the Contractor to adopt such corrective measures as the Resident Engineer deems necessary to recover lost time and may also direct the Contractor to propose corrective measures for consideration (without any obligation by DEP to adopt the same).

E. The Contractor shall have included in its bid sufficient resources to complete the Work within the Period of Performance for the Project and will make no claim for extra compensation solely because of additional costs to meet the Progress Schedule dates.

F. The Contractor shall obtain prior written approval from the Resident Engineer for working other than Normal Project Working Hours. The Contractor shall submit its written requests to the Resident Engineer for such authorization at least 15 days in advance of such proposed Work, or as deemed reasonable by DEP Approval by DEP does not release the Contractor from obtaining all required permits prior to the start of the Work outside of the Normal Project Working Hours.

G. The Contractor shall abide by all federal, state and local laws, rules and regulations governing or restricting the Work, both during and outside of normal employee working hours or Normal Project Working Hours.

H. The Contractor shall provide and maintain all other necessary facilities for performing and inspecting the Work outside the Normal Project Working
Hours. In addition, the Contractor shall comply with any local laws or ordinances that may govern or restrict the performance of such Work.

I. The Contractor shall provide and maintain all other necessary facilities for performing and inspecting the Work outside the Normal Project Working Hours. In addition, the Contractor shall comply with any local laws or ordinances that may govern or restrict the performance of such Work.

J. Contract CAT-212D, Gilboa Dam and Associated Facilities Reconstruction will be in progress sometime during the duration of CAT-186. Construction activities for CAT-212D include but are not limited to the following activities at the Shandaken Tunnel Intake Channel (STIC) Building Driveway: construction of concrete pavement at driveway entrance, driveway resurfacing, installation of automated security gate, temporary guard shack during construction, and reconstruction of roadway culverts and drainage ditches. The Contractor is advised that DEP Road 7 closures will not be permitted without a coordination letter of approval from the CAT-212D Contractor indicating acceptable periods of road closures and allowable operations. The Contractor shall coordinate all construction traffic and road shutdowns with the CAT-212D Contractor to ensure that the STIC is accessible via Road 7 / Intake Road. No extra compensation shall be provided due to road openings/closures associated with CAT-212D delivery activities.

1.05 COMPLIANCE WITH QUALITY OF LIFE REQUIREMENTS

A. DEP regards the preservation of “Quality of Life” as a high priority for the communities near DEP construction projects. The Contractor, therefore, will be held to the strictest account in its adherence to Contract requirements and all applicable ordinances, rules, and regulations that relate to “Quality of Life” including, but not limited to: noise control, vibration control, dust control, particulate control, rodent control, cleanliness and maintenance of the site and surrounding areas, and adherence to traffic and parking stipulations.

1. The Contractor shall submit a Quality of Life Compliance Plan for review and approval by the Resident Engineer. This plan shall address all work required by the Contractor to satisfy the Quality of Life requirements.

2. Work at the site shall not commence until the Contractor’s “Quality of Life” Compliance Plan is approved.

B. When the Contractor is determined to be noncompliant with “Quality of Life” requirements, as described in the paragraph above, the Contractor shall be subject to the following measures:

1. Where non-compliance with a Quality of Life requirement is not corrected within the timeframe specified by the City, Work may be ordered to stop...
until such measures as DEP deems satisfactory are taken to resolve the problem and prevent future occurrence. No part of the time lost due to any such stop orders shall be made the subject of a claim for extension of time or for additional costs or damages by the Contractor.

C. The Contractor shall cooperate fully with the Resident Engineer to prevent, address and resolve any Quality of Life issues that may arise from time to time, by whatever means necessary, all at no additional cost to DEP.

D. The Contractor’s record of compliance with Quality of Life requirements for this Project and its efforts to coordinate with the Resident Engineer and comply with his/her directions in this regard will be reflected in the Contractor’s Evaluation. This Evaluation will become a part of the Contractor’s record of doing business with the City.

1.06 EMISSION CONTROL TECHNOLOGY FOR NON-ROAD VEHICLES

A. The Contractor’s attention is called to Title 24 of the Administrative Code of the City of New York, Section 24-163.3 and Articles 5.4 and 5.5 of the Standard Construction Contract. The Contractor shall comply with all technical requirements of these documents for the entire duration of the Project.

B. The Contractor shall complete and submit to the Resident Engineer the attached Local Law 77: DEP Monthly Reporting Form (Attachment A) to report on usage of Ultra Low Sulfur Diesel (ULSD) fuel and Best Available Technology in diesel-powered non-road vehicles for reducing emission of pollutants on a monthly basis.

1.07 SPECIAL REQUIREMENTS FOR WORK IN AND NEAR WATERWAYS

1. Construction in the streams and reservoirs shall only take place between June 15 and September 30. Refer to the NYSDEC General Permits special conditions, included in the documents, for other restrictions.

2. All of the Contractor’s equipment’s shall use vegetable oil based hydraulic fluid such as “EAL 224H” as manufactured by Mobile or approved equal.

3. All of the Contractor’s equipment’s shall use propylene glycol antifreeze such as “Fleet Charge PG” as manufactured by Old World Industries or approved equal.

4. The Contractor shall take the necessary precautions to prevent any contamination affecting the quality of water in the reservoirs and rivers.

5. The Contractor shall ensure that the Work does not impede the NYSDEC mandated minimum reservoir releases as required in Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6NYCRR).
6. The Project site contains five protected streams that are designated by the NYSDEC as follows:

DEP Road 7 – West Side of the Schoharie Reservoir

Bear Kill (Bearkill Bridge): H-240-82-P638a-113 - Class A (TS),
DR 24: H240-82-P638a-112b – Class A
DR 27: H240-82-P638a-112a – Class A
DR 38: H240-82-P638a-110a-1 – Class A

Schoharie County Road 39 – East Side of the Schoharie Reservoir

DR-36: H240-82-P638a-112c - Class A

7. The Class and Standard designation shall be maintained at all times during construction and after completion of all Work, in accordance with NYSDEC Water Quality Regulations Title 6, Chapter X, Parts 700-705. No work that may impact the stream, its bed and banks shall be performed between October 1 and June 14. Any cofferdams, turbidity curtains, and/or dewatering operations must accommodate fish passage.

8. Pumps, hoses, barges, boats, and other equipment and materials placed within reservoirs or direct tributaries shall be stream cleaned by DEP personnel prior to use.

9. Any debris or excess material from construction of this Project shall be immediately and completely removed from the banks of all water areas to an appropriate upland area for disposal.

10. All areas of soil disturbance resulting from this project shall be seeded and mulched with hay or straw within one week of final grading. Areas of soil disturbance that are not under active excavation shall be mulched and seeded within 48 hours of disturbance. Mulch to be maintained until suitable vegetative cover is established as approved by DEP Office of Engineering inspection personnel. All landscape Work is to be reviewed and approved by DEP Environmental Review.

11. Soil erosion and sediment control practices must be installed and maintained according to the construction schedule until permanent protection is established.

12. The Contractor shall be responsible for the operation and maintenance of the temporary erosion control devices. The Contractor shall inspect the erosion controls once a week and after every storm, repair and replace as necessary.

13. The Contractor shall be responsible for accommodating water levels actually present during the inspection period.
14. At no time shall the Contractor allow wet concrete or concrete leachate to enter into the waterway, including washings from concrete trucks, mixers and other devices.

15. Any debris, excavated materials and excess material from construction and/or demolition work shall be immediately and completely removed from the banks of all water areas and wetland areas to an appropriate upland site for disposal. No accumulation, storing or stockpiling of material to be disposed of shall be permitted on site. All debris and excess material from construction shall be disposed in accordance with the rules and regulations of all agencies having jurisdiction.

16. All exposed soil areas shall be mulched and seeded within 48 hours of disturbance (except for stockpiles or excavation areas).

17. Suitable precautions shall be taken to stabilize material stockpiles to prevent the spilling of materials which would develop shoals. Active soil stockpiles shall be covered and partially surrounded by silt fencing. Inactive stockpiles shall be mulched and seeded and surrounded by a silt fence. In the event that shoals are developed, they shall be removed by the Contractor to the satisfaction of the Resident Engineer, at no additional cost to the DEP.

18. The Contractor shall bear all costs of damage to the existing water supply facilities due to its operations, at no expense to the DEP.

19. The DEP Office of Engineering, West of Hudson Engineering Project Review Section, and the Bureau of Water Supply will conduct a post-construction inspection of the site prior the release of the bond to the Contractor, to ensure compliance.

END OF SECTION
ATTACHMENT 5
SECTION 01310
Project Coordination

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Contractor Cooperation

1.02 CONTRACTOR COOPERATION
A. The Contractor shall not interfere with DEP or its contractors, service providers, or agents to enter the work site for the purpose of constructing, operating, maintaining, removing, repairing, altering or replacing in coordination with the Contractor such pipes, sewers, conduits, manholes, wires, poles, or other structures and appliances which may be required to be installed during the performance of the Work.

B. The Contractor shall cooperate with all the aforesaid parties and shall allow reasonable provisions for the prosecution of any other work by DEP, or others, to be done in connection with its work, or in connection with normal use of the facilities.

C. The Contractor shall cooperate fully with DEP, the Resident Engineer, the local County and Town officials, and any other contractors employed on the Work, to effect proper coordination and progress to complete the project on schedule and in proper sequence. Insofar as possible, decisions of all kinds required from the Resident Engineer shall be anticipated by the Contractor to provide ample time for inspection, or the preparation of instructions.

D. Contract CAT-212D, Gilboa Dam and Associated Facilities Reconstruction will be in progress sometime during the duration of CAT-186. Construction activities for CAT-212D include but are not limited to the following activities at the Shandaken Tunnel Intake Channel (STIC) Building Driveway: construction of concrete pavement at driveway entrance, driveway resurfacing, installation of automated security gate, temporary guard shack during construction, and reconstruction of roadway culverts and drainage ditches.

1. Construction activities for CAT-212D are in the vicinity of the CAT-186 project area as listed below.

<table>
<thead>
<tr>
<th>STATION</th>
<th>Location/Description</th>
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<tbody>
<tr>
<td>64+00</td>
<td>STIC driveway reconstruction and installation of automated security gate</td>
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2. The Contractor is advised that the CAT-212D Contractor shall have shared use of Road 7 / Intake Road and shall at times require site deliveries to the Intake Road. The Contractor shall coordinate all construction traffic and road shutdowns with the CAT-212D Contractor to ensure that the STIC is accessible via Road 7 / Intake Road. No extra compensation shall be provided due to road openings/closures associated with CAT-212D delivery activities.

<table>
<thead>
<tr>
<th></th>
<th>Culvert DR-12/RD7-02 – to be constructed under Contract CAT-212D</th>
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</thead>
<tbody>
<tr>
<td>64+45</td>
<td></td>
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<tr>
<td>66+61</td>
<td>Culvert DR-13/RD7-03 to be constructed under Contract CAT-186</td>
</tr>
</tbody>
</table>

PART 2  PRODUCT (NOT USED)

PART 3  EXECUTION (NOT USED)

END OF SECTION
ATTACHMENT 6
SECTION 01356
Environmental Health and Safety (EHS) Requirements

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements for the Contractor to provide its employees and those of its subcontractors a safe and healthful work environment and for performing all Work in compliance with all applicable environmental health and safety laws, rules, and regulations.

1. The EHS performance of the Contractor and its subcontractors is the responsibility of the Contractor. Since effective on-site management is essential for EHS performance, the Contractor shall evaluate the performance of its on-site EHS team on a continuous basis. Where deficiencies are found, the Contractor shall take appropriate action including removal of its personnel or its subcontractors’ personnel.

2. The Contractor shall ensure that each of its and subcontractors’ employees working on a DEP project site under the Contract are clearly identifiable as a project contractor employee. This may include the use of labeled safety vests or hard hats or other acceptable means in addition to complying with the identification badge requirements of Article 37 of the Standard Construction Contract.

3. The Contractor will ensure that each of its employees and subcontractors working under their contract are clearly identifiable as contract employees. This may include the use of labeled safety vests or hard hats or other acceptable means.

B. An index of the Articles in this specification is presented hereinafter for the convenience of the Contractor.

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<th>Title</th>
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<td>Description</td>
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<tr>
<td>1.07</td>
<td>Environmental Health And Safety Plan (EHASP)</td>
<td>6</td>
</tr>
</tbody>
</table>
1.02 PAYMENT
A. No separate payment will be made for performing any work of this Section. The Contractor shall include all costs for this work in its lump sum price bid for the Contract.

1.03 REFERENCE STANDARDS
A. The Contractor shall comply with all current federal, state, city and local EHS laws, rules, and regulations, including all those that become effective during the term of the Contract, related to ensuring health and safety of employees and to the protection of property and the environment.

B. When working at New York City Department of Environmental Protection (DEP) facilities and sites associated with the Work of this Contract, the Contractor and its subcontractors shall fully comply with DEP’s EHS Policies and Procedures and BEDC’s EHS Standards. If a provision of the DEP’s EHS Policies and Procedures or BEDC’s EHS Standards conflicts or differs from any federal, state, City or local regulation, the more stringent requirement shall apply. Copies of the most recent version of the DEP’s EHS Policies and Procedures and BEDC’s EHS Standards can be found in the DEP Knowledge Reservoir of the BEDC web-based Project Management Information System (PMIS).

C. The Contractor shall conform to the requirements of Attachment 01356 A to this Section – Contract Environmental, Health and Safety Requirements. Bidders are advised of the pre-award submittal requirements specified in Attachment 01356-A. Failure to fulfill these submittal requirements may result in the rejection of a bid as non-responsive.

1.04 DEFINITIONS
A. A “Competent Person” is one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees or the environment, and
who has authority to take prompt corrective measures to eliminate them. A Competent Person has stop work authority.

B. “EHS Resources” shall mean the Contractor’s EHS Professional(s) and its EHS Site Representative (EHS Rep), as approved by the BEDC EHS unit. This definition shall also apply to the subcontractors’ EHS Resources, where required. This definition also includes any consultant or other EHS personnel associated with the project. Such EHS personnel are subject to evaluation and approval by BEDC EHS as set forth in this Section.

C. “Environmental Health & Safety Plan (EHASP)” shall mean the plan developed in accordance with all applicable EHS rules and regulations and these Specifications to identify and set forth policies and procedures to control the health and safety concerns and environmental impacts known and unknown at the site. This plan is not to be confused with the Health and Safety Plan that may be required under 29 CFR 1910.120 for Hazardous Waste Operations and Emergency Response (HAZWOPER).

D. “Job Hazard Analysis” shall mean a tool used to document a process by which the steps required to accomplish a work activity are outlined, the actual or potential hazards for each step are identified, and measures for the elimination or control of those hazards are developed.

E. “Incident” shall mean an event in which a person or persons are injured or made ill, property or equipment is damaged, the environment is harmed, or an environmental release occurs.

F. “Near Miss” shall mean an opportunity to improve environmental, health, and safety performance based on a condition, behavior, or an event with potential for more serious consequence.

G. “Qualified Individual” shall mean one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his or her ability to solve or resolve problems relating to the subject matter, work or project.

1.05 DESCRIPTION

A. In performing the Work of this Contract, the Contractor shall at all times be in compliance with all federal, state, City and local environmental, health and safety laws, rules, and regulations.

B. The Contractor shall be responsible for the health and safety of its employees, subcontractors, the public and all other persons at or around the work site. The Contractor shall be solely responsible for the adequacy of all construction methods, materials, equipment and the safe and environmentally compliant prosecution of the Work. Where possible, the Contractor shall implement Best Management Practices to reduce injuries, accidents and environmental impacts.
C. The overall site management for EHS is performed by the Resident Engineer in coordination with the DEP Construction Manager. The Construction Manager’s EHS staff/consultant and Contractor’s EHS staff shall work closely with the Resident Engineer’s designated EHS staff (i.e., coordinate to perform joint EHS activities, including inspections, incident investigations, etc.). The Contractor shall coordinate with the Resident Engineer’s EHS designee with regard to any site rules or site-specific requirements such as working hours, delivery times and operations coordination and sequencing.

D. The Contractor shall perform and document its due diligence in determining whether the subcontractors they hire to perform work under the Contract are capable of performing to the EHS standards set forth in this Section. At a minimum, the Contractor is required to perform an EHS evaluation of subcontractors prior to submitting them for DEP approval. The Contractor must have a subcontractor EHS evaluation program that is at least as stringent as the DEP Contractor Selection and Management Policy available in the BEDC web-based PMIS. Poorly performing subcontractors will affect the Contractor’s performance evaluations and ability to obtain future contracts with DEP.

E. DEP requires a drug and alcohol free, healthful, safe and secure work environment. Contractor employees will report to work in an appropriate mental and physical condition for work. DEP reserves the right to require any Contractor or subcontractor employee to submit to drug testing when cause for reasonable suspicion of a violation of this policy exists. Drug testing may occur when: a) there is reasonable suspicion that an employee is under the influence of alcohol or illegal drugs, or b) an employee has been involved in an Incident, or involved in an unsafe practice, or c) as required by BEDC EHS Standards. The Contractor must prohibit any employee from being under the influence of any illegal drug or alcohol while at work, on duty, or operating a vehicle or construction equipment.

F. The Contractor shall implement an EHS Management Program which includes qualified Safety Professionals (SPs) and Environmental Professionals (EPs), collectively referred to as EHS Professionals, along with project management staff, with appropriate competencies to provide EHS direction, guidance, and oversight of all aspects of the performance of the Contract’s detailed scope of work.

G. The Contractor shall ensure that its EHS Resources have appropriate authority to execute their duties and responsibilities as set forth in this Section and under the Contractor’s EHS Management Program.

H. The Contractor shall arrange for additional approved EHS Resources to be available during EHS staff absences. The Contractor must inform the Resident Engineer, in writing, of anticipated absences.
I. Contractor EHS resources:

1. At a minimum, the Contractor shall provide the EHS Resources described below. The Contractor is required as part of its EHS Management Program to identify any EHS Resources necessary beyond the listed minimums.

2. For all contracts that employ 100 or less employees on site at any time, the Contractor shall have at least one full-time site EHS Representative (EHS Rep). The Contractor may submit a request in writing to the Resident Engineer to waive the requirement of a separate EHS Rep at each site and permit other Contractor employees who are Qualified Individuals to monitor the EHS activities of the employees and to assume all of the responsibilities of the full-time site EHS Rep, if it can show that one EHS Rep can effectively manage multiple sites. The EHS Representative(s) shall have no other duties except those related to EHS on the Contract, and shall not be the project manager, resident engineer, superintendent or have any other title or project role other than EHS Rep.

3. For all contracts that employ over 100 employees on site at any time, the Contractor shall have at least two full time EHS Reps. These EHS Representatives shall have no other duties except those related to EHS on the Contract, and shall not be project managers, resident engineers, superintendents or have any other title or project role other than EHS Rep.

4. The Contractor may submit a request in writing to the Resident Engineer to waive the requirements of this section and permit other Contractor employees who are Qualified Individuals to monitor the EHS activities of the employees on site and to assume all of the responsibilities of the full-time site EHS Rep.

5. The Contractor shall ensure that subcontractors that consistently employ over 100 employees for more than two weeks at a time under the Contract shall have one full-time site EHS Rep. This EHS Representative shall have no other duties except those related to EHS on the Contract and shall not be the project manager, resident engineer, superintendent or have any other title or project role other than as the subcontractor’s EHS Rep.

6. If the Contract has more than one location, each location shall be treated as a separate contract for purposes of determining the number(s) of necessary EHS Reps in accordance with paragraphs 2 through 4 above.

7. The Contractor’s EHS staff shall be provided an appropriate office on the job site to maintain and keep available EHS records, up-to-
date copies of all pertinent EHS laws, rules, regulations and
governing legislation, material safety data sheets, and the EHASP.

J. All site workers have the right to refuse unsafe work which is reasonably
believed to present imminent danger to their own safety or the safety of
others, the public or the environment, or to City property, without adverse
consequences.

K. The Contractor and its subcontractors shall stop work and initiate immediate
corrective action whenever a work procedure or a condition at the work site
is deemed unsafe by the EHS staff, DEP, Competent Persons, or the
Resident Engineer. All Contractor and subcontractor employees working
on site shall report any unsafe or noncompliant work condition(s)
immediately to the EHS staff, Competent Persons, or Resident Engineer. If
a stop work order is issued to the Contractor by the Resident Engineer for
unsatisfactory EHS performance, the Contractor shall not make any claim
against the City for any losses associated with the stop work order.

L. The Contractor and all subcontractors are responsible for daily cleanup of
their immediate work areas per BEDC’s Housekeeping Standard.
Construction scrap and debris shall be removed daily during the course of
construction, alterations and repairs. Contractor refuse shall not be allowed
to accumulate creating trip hazards and blocking access routes and
pathways. The Contractor shall implement procedures to ensure a high
standard of housekeeping. All waste shall be disposed of in accordance
with the appropriate regulations and applicable Specifications.

M. The Contractor shall ensure that any sand, soil, plaster, cement, mortar or
the like is not deposited or washed into any drain or sewer unless
specifically authorized under required permits.

1.06 ENVIRONMENTAL HEALTH AND SAFETY PLAN (EHASP)

A. The Contractor shall have a written EHASP prepared and signed by the EHS
Professional in accordance with the BEDC EHASP Standard. The EHASP
must be signed by a principal or senior manager of the company and project
management staff. The EHASP shall be submitted to BEDC for review and
approval prior to the start of any work. Job Hazard Analyses (JHAs) will
be developed as the work progresses, in accordance with the BEDC JHA
Standard, and will supplement the Contractor’s EHASP.

1.07 EMERGENCY ACTION PLAN (EAP)

A. The Contractor shall work with the Construction Manager and other
Contractors to develop a single cohesive construction EAP in accordance
with BEDC’s EAP Standard.

1. The Contractor is responsible to provide, or to supplement the
facility’s existing, emergency alarm/siren/annunciation system to
ensure that all Contractor personnel will be adequately notified of
an alarm condition or required/test evacuation.
2. The Contractor is responsible for evaluating and ensuring that all identified emergency resources are adequate and appropriate for the potential rescues/emergencies needed.

1.08 SPILL PREVENTION PROGRAM (SPP)

A. The Contractor shall establish a Spill Prevention Program (SPP) for the prevention of releases of petroleum, hazardous substances or other pollutants. The SPP shall be included in the EHASP, and include awareness training for all personnel on measures designed to reduce, minimize and eliminate the potential for releases.

B. The Contractor shall establish sound work practices and implement appropriate measures to achieve release prevention and control of releases when they do occur.

C. At a minimum, the Contractor shall include within the SPP the following:

1. Proper materials handling, labeling and container storage inspection practices for all products including hazardous and universal waste.

2. All petroleum products, hazardous substances, or chemicals must be stored in designated areas and include secondary containment (with capacity to contain 110% of largest container) for all closed containers with a capacity greater than 5 gallons. Open containers of petroleum products, hazardous substances, or chemicals must be stored on secondary containment at all times.

3. Follow manufacturer recommended preventive Maintenance Procedures (MPs) and where none exist, develop in-house equipment specific MPs.

4. Inspection for and purging of residual materials in piping, tanks and other equipment prior to disassembly, demolition and disposal.

5. Supervision of fuel and chemical deliveries. These deliveries shall only be permitted during normal contract work hours or as otherwise approved by the Resident Engineer.

6. The SPP shall include a detailed summary of anticipated petroleum and chemical storage. The information shall include capacity, contents, description and secondary containment provided.

D. The Contractor shall bear sole responsibility for all costs and delays resulting from any releases on the project which occur as a result of the work activities.

1.09 QUALITY ASSURANCE

A. Qualifications

1. The Contractor shall ensure that, at all times, its employees and those of its subcontractors working on this Contract have received OSHA 10-Hour Construction training within the last five (5) years.
a. OSHA 30-Hour training completed within the last five years may be used to substitute this requirement.

2. The EHS Professional(s) shall possess a combination of safety and environmental skills as needed to manage the EHS hazards and issues presented by the specific project. The EHS Professional may be one or more persons meeting the individual qualifications for Safety and Environmental Professionals as detailed below.

3. Safety Professional (SP): Persons recognized as a Safety Professional shall, at a minimum, possess the following education and experience:

   a. Certification as a Certified Safety Professional granted by the Board of Certified Safety Professionals and five (5) years of documented professional construction EHS management experience; or

   b. Certification as a Certified Industrial Hygienist granted by the American Board of Industrial Hygiene and five (5) years of documented professional construction EHS management experience; or

   c. A Bachelor of Science degree in safety, industrial hygiene, occupational safety and health, environmental health and science, or related field and ten (10) years of documented professional construction EHS management experience.

   d. All documented professional EHS management experience must be in the types of construction and conditions expected to be encountered on the site.

   e. For projects that require hazardous waste remediation or response, the SP is also required to have successfully completed a forty-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training course.

4. Environmental Professional (EP): Persons recognized as an Environmental Professional shall, at a minimum, possess the following education and experience:

   a. A Bachelor’s degree in environmental science, environmental engineering or other related engineering or science field and ten (10) years of documented professional environmental field, management and/or engineering experience. All documented professional environmental experience must be in the types of construction and conditions expected to be encountered on the site.

   b. The EP’s knowledge and experience should include, but not be limited to, management and disposal of solid and hazardous waste, universal waste, hazardous materials
management, chemical and petroleum bulk storage, used oil, chemical and petroleum spill control plans, lead/mercury/PCB and asbestos remediation and management, storm water and soil management, and environmental permit management.

5. EHS Representative (EHS Rep): Qualifications of the EHS Rep(s) shall include a minimum of: ten years of relevant construction experience, five years of which were exclusively in construction EHS management and successful completion of the following training courses:
   a. Four-hour BEDC EHS Standards;
   b. Thirty-hour OSHA construction safety and health training;
   c. For projects that require hazardous waste remediation or response, forty hour HAZWOPER training;
   d. Resource Conservation Recovery Act/DOT hazardous waste/manifesting training
   e. Permit-required confined space;
   f. BEDC spill prevention and control;
   g. Control of hazardous energy sources (lockout/tagout);

6. The EHS Professional and EHS Rep shall have extensive experience with hazard identification, evaluation and controls, and be knowledgeable of all applicable EHS requirements set forth by governing laws, rules and regulations as well as Best Management Practices. Where gaps in the training or experience are identified, DEP may require additional experience or training for approval.

1.10 SUBMITTALS

A. The Contractor shall submit the EHASP to the draft Resident Engineer for review and approval within thirty business days from issuance of the Notice to Proceed. In no case shall Work be allowed to commence without an approved EHASP.

1. Initial submission of the EHASP shall be provided as one hard copy and one electronic copy (either Word or Acrobat format) to the Resident Engineer.

2. The EHASP submittal shall be reviewed and comments shall be provided to the Contractor upon completion of the review.
   a. The Contractor shall work with the Resident Engineer to address all comments in order to obtain EHASP approval.
3. Upon receipt of final approval, the Contractor shall provide one hard copy and one electronic copy (either Word or Acrobat format) of the EHASP to the Resident Engineer.

B. The EHASP shall be available to all of the Contractor’s employees working on the Contract.

C. Review, acceptance and/or approval of the EHASP will not impose on any other party responsibility for the EHASP, nor will it relieve the Contractor from any of its EHS responsibilities.

D. The Contractor shall submit to BEDC EHS for approval, the names of the EHS Professional and EHS Rep(s) to be employed. BEDC EHS may request and conduct an interview of the candidates prior to approval. The Contractor shall submit the resumes, copies of certifications, a signed certification of employee training, along with other qualifications of the EHS Professional and EHS Representative. The resumes shall include items such as: experience, education, EHS courses completed, safety and environmental conferences attended, and certifications achieved. Documentation and/or personal references confirming the qualifications may also be required. The NYCDEP may reject persons proposed as EHS Professionals or EHS Reps for failure to have adequate qualifications or for other cause at any point prior to and during the contract period, as determined by the Resident Engineer.

E. The Contractor shall adhere to the requirements of BEDC Incident and Near Miss Reporting and Investigation Standard and shall immediately notify the Resident Engineer of all incidents involving employee injury and illness, and any other work-related incidents or near misses, damage to equipment and structures, and any releases or adverse impacts to the environment.

F. The Contractor must notify the Resident Engineer and BEDC EHS immediately of any regulatory inspections, notices of citations and penalties, Notices of Violation (NOVs), or any other outside agency violations. In addition, the Contractor shall furnish to the Resident Engineer a copy of all correspondence from OSHA, NYSDEC, DOB or any other government regulatory agency, within one day of receipt, which may include employee complaints, notices of citations and penalties, environmental NOVs, etc. The Contractor must close out all NOVs and provide documentation to the Resident Engineer that the NOV is closed/corrected or final payment will not be provided.

G. The Contractor will forward to the Resident Engineer any risk control reports generated by their insurance carrier or broker within one day or receipt.

H. Monthly Contractor EHS Report
   1. The Contractor shall submit, on or before the 10th day of the month, a summary report of EHS activity for the prior month, including, but not limited to:
a. EHS metrics reported on the metrics reporting form provided as part of the pre-construction package and as may be updated throughout the life of the project.
b. Chemical Inventory with HTSL (Hazardous and Toxic Substance List) and Subpart Z List.
c. Local Law 77 and DEP Bureau Environmental Compliance air permits
d. Summary of audit data including trending and analysis along with root cause and corrective actions/training identified.
e. Summary of the regulatory inspections, notices of citations and penalties, NOVs, or any other outside agency violations (which occurred and were provided to BEDC in accordance with this Section.

2. The Resident Engineer shall review the report to verify that the Contractor is effectively managing the EHS requirements under the contract. If the Contractor has no, or limited work in a given month, they shall inform the Resident Engineer that no work was performed or submit the required documentation for those days that work was performed.

I. Performance Evaluations

1. The Contractor, in conjunction with its subcontractors, shall be evaluated semi-annually on their performance in implementing the work of this contract in accordance with this Detailed Specification Section and all related EHS specifications, rules, regulations, laws, policies and procedures. The evaluations are based on the criteria established in DEP’s Contractor Selection and Management Policy.

2. In conjunction with the Contractor evaluation form, the EHS Professional and EHS Rep will be evaluated by BEDC EHS and shall be included in the evaluations.

3. Any EHS Professional or EHS Rep who knowingly falsifies any data, result, audit, document, etc. will be removed from the project and precluded from further DEP Work.

PART 2 PRODUCTS

2.01 EHS EQUIPMENT

A. The Contractor shall provide the proper EHS and rescue equipment for all employees, adequately maintained and readily available, for any foreseeable contingency or situation under the Contract during the performance of the Work.
B. All equipment shall be stored in protected areas and maintained and calibrated as per the manufacturer’s recommendations and as specified in the EHASP. Where equipment is required to be inspected and or calibrated, documentation shall be maintained and available for review.

2.02 PERSONAL PROTECTIVE EQUIPMENT
All personnel employed by the Contractor and any visitors entering the job site shall be required to wear appropriate personal protective equipment (PPE) required as specified in the EHASP and the BEDC EHS PPE Standard. The Contractor shall continuously provide and maintain adequate PPE.

PART 3 EXECUTION

3.01 EHS STAFF DUTIES
A. The Contractor’s EHS staff is responsible for overseeing and managing the Contractor’s safe and environmentally compliant performance of all Work.

B. EHS Professionals’ duties shall be to initiate, review and implement measures to ensure the health and safety of all Contractor employees, and to protect property and the environment. Each EHS Professional is required to visit and audit the site conditions in accordance with the Contractor’s EHS Management Program or as directed by the Resident Engineer.

C. The EHS Professional will be held accountable to adjust their workload to enable them to properly perform all of their EHS responsibilities in accordance with all requirements of this Section and all applicable regulations. DEP may request that the Contractor remove the EHS Professional for not meeting the Contract requirements.

D. The EHS Professional shall visit the site prior to developing the Contractor’s EHASP. The EHS Professional will arrange a visit with the Resident Engineer and perform an inspection of the site to understand the full scope of Work to be performed under the Contract. Contract Documents relevant to writing the EHASP can be reviewed and obtained at this time. Facility/site specific information must be provided, reviewed, and documented in accordance with the BEDC EHS Site Orientation Standard.

E. The EHS Professional shall visit all work areas as frequently as necessary, but no less frequently than monthly, to verify that EHS compliance is being achieved. The EHS Professional shall review hazards, JHAs, and the foremen’s and superintendent’s preparation and communication of JHAs to workers. The EHS Professional shall review the project team’s compliance with and adherence to EHS requirements, as well as their proactive approach and planning for EHS.
F. The EHS Professional shall be available for consultation whenever necessary. Prior to and after each visit, the EHS Professional shall sign the visitors’ log maintained at the Resident Engineer’s office.

G. The EHS Professional is expected to perform their inspection in concert with the EHS Rep, during which time the EHS Professional will not only inspect the site, but shall also mentor and direct the EHS Rep. During the inspection, the EHS Professional will evaluate the Contractor and each subcontractor working under the Contract and clearly identify findings and who they are assigned to, using the EHS Professional checklist provided in the EHASP. Any findings that cannot be resolved immediately will be assigned to the EHS Rep for follow-up. The EHS Professional is expected to communicate with the EHS Rep to ensure all identified findings are closed out. The EHS Professional’s inspection shall include programmatic issues such as adhering to the Contractor’s EHS program, including, but not limited to, preparing and communicating JHAs and proactively minimizing EHS risks.

H. The EHS Rep will coordinate with the EHS Professional when questions arise requiring EHS Professional expertise. After each visit, the EHS Professional shall prepare a report, including photographs (where necessary), acceptable to the Resident Engineer and BEDC EHS, detailing the findings. The report shall include those hazards and violations discovered during the site visit and when and how they were or will be closed out. Any EHS items not covered or documented by the inspection checklist will be noted in the comments section of the checklist. The report shall be submitted to the Resident Engineer within one business day of the site visit.

I. The EHS Rep shall be at the job site full time whenever work is in progress during all shifts.

J. The EHS Professional’s and EHS Rep’s responsibilities are as follows:

1. The EHS Professional is responsible for directing the Contractor’s EHS program, ensuring implementation by the Contractor and all Subcontractors, and for directing and monitoring all activities of the EHS Rep. If the EHS Rep is not enforcing the EHASP program, the EHS Professional shall either recommend retraining or removal of the EHS Rep from the project by submitting a letter to the Resident Engineer and Contractor.

2. The EHS Rep must review JHAs to verify that the work activity’s EHS issues and hazards are accurately identified, addressed, and communicated. JHAs shall be regularly communicated to affected employees and must be made available in the areas where the affected employees are working. The EHS Professional is responsible for periodically reviewing JHAs to verify that they
adequately reflect the recognized hazards and controls of the tasks being performed. JHAs shall be provided to the Resident Engineer or BEDC EHS when requested.

3. Both shall schedule and conduct EHS meetings and training programs as required. A specific schedule of these meetings and an outline of topics to be covered shall be provided with the EHASP. The Resident Engineer shall be advised in advance of the time and place of such meetings, and DEP personnel shall be invited to attend the meetings.

4. All Contractor employees shall be instructed by the EHS Professional and the Rep on the recognition of hazards, safe work practices and environmental precautions, the contents of the EHASP, and the use of environmental, personal protective and emergency equipment. Such training shall be documented, recorded, and provided as part of the EHS monthly report(s). EHS Reps and EHS Professionals will attend regularly scheduled meetings held by the Resident Engineer and BEDC EHS including the EHS Pre-Construction Meeting.

5. Determine that operators of specific equipment are qualified by training, certification and/or experience before they are allowed to operate such equipment. Ensure documentation of licenses, certifications and training by the approved agencies, which may include for example OSHA, NYC DOB, NYC Fire Department, etc. are on site and current, prior to start of Work.


7. Develop an effective site communication plan that includes, signage, verbal and written communication of EHS issues and notices.

8. Post all appropriate notices regarding EHS regulations at site location(s) which afford maximum exposure to all personnel at the job site.

9. Post appropriate instructions and warning signs in regard to all hazardous areas or conditions which cannot be eliminated. Identification of these areas shall be based on experience, site surveillance, and severity of hazard. Such signs shall not be used in place of appropriate workplace controls.
10. The EHS Rep is to conduct EHS inspections a minimum of twice a shift to ensure that all machines, tools and equipment are in a safe operating condition, and that all work areas are free of safety and environmental hazards. Take necessary and immediate corrective actions, where feasible, to eliminate all unsafe acts and/or conditions, and submit to the Resident Engineer each day a copy of their findings on the inspection check list report forms established in the EHASP. Detailed checklists will be tailored to the EHS hazards and conditions on the site, and will include a comments section to include findings not specifically listed on the checklist.

11. Whenever DEP and its agents perform both announced and unannounced inspections of the Contractor’s EHS performance, a member of the Contractor’s on-site EHS team will make themselves available during inspections performed by DEP or its representatives. The EHS Professional will coordinate inspections with the Resident Engineer and DEP inspectors upon request. The Contractor shall take immediate corrective action, where feasible, to eliminate of hazards identified by the Resident Engineer, DEP inspectors, or any other entity. The Contractor, if requested, shall develop and implement a plan detailing corrective actions necessary to mitigate the presence of noncompliant conditions and actions following Incidents, citations, NOVs, or identification of patterns of noncompliant conditions and acts.

12. Notify the Resident Engineer and BEDC EHS immediately of all inspections by regulatory agencies, and submit to the Resident Engineer and BEDC EHS copies of all EHS reports, citations, and NOVs from regulatory agencies and insurance companies within one workday of receipt.

13. Implement an effective fire protection and prevention program at the job site throughout all phases of the construction Work in accordance with BEDC’s Fire Prevention Standard. The Contractor will ensure the availability of fire protection and suppression equipment adequate to control the degree of fire hazard encountered during construction.

14. Provide and document appropriate site-specific orientation to Contractor employees, visitors, and subcontractors communicating recognized hazards present at and surrounding the site(s) and facility in accordance with BEDC’s Site Orientation Standard and DEP’s Contractor Selection and Management Policy.
15. Perform all tasks and responsibilities as identified in the EHASP.

3.02 EPCRA AND RELATED HAZARDOUS MATERIAL REGULATIONS

A. The Contractor shall maintain a monthly inventory of hazardous substances or extremely hazardous substances used or stored onsite in accordance with the BEDC-provided chemical inventory form. Documentation shall be maintained on site and available for review.

B. The Contractor shall prepare and provide to the Resident Engineer, a Right to Know (RTK)/Emergency Planning and Community Right to Know Act (EPCRA) Annual Chemical Inventory Form for all hazardous and extremely hazardous substances that the Contractor used or stored that exceeded legal thresholds during the previous calendar year. This shall be provided by February 1st of each year.

C. The Contractor shall bear sole responsibility for complying with annual reporting requirements. For facilities within the five boroughs, the New York City Community RTK Law requires annual reporting of hazardous and extremely hazardous substances from all facilities that stored or used hazardous substances that met the applicable law’s thresholds. For facilities outside the five boroughs of New York City, the Federal EPCRA requires annual reporting of hazardous and extremely hazardous substances from all facilities that stored or used hazardous substances that met the applicable law’s thresholds.

   1. The Contractor is the “facility” during the construction phase and must report on its hazardous substances if the applicable law’s thresholds are met.

   2. Annual reports are due March 1st of each calendar year.

   3. In NYC, the Contractor must file using the NYC Facility Inventory Form. Filing instructions can be found on the website www.nyc.gov/dep/tier2filing. Within NYC there is a Right to Know filing fee.

   4. Outside of New York City, the Contractor must use the SARA Tier II forms. Information for filing outside of NYC is found on the website www.semo.state.ny.us/programs/SERC/tier2.cfm.

   5. The Contractor is solely responsible for all required filing fees.

D. The Contractor must satisfy all EPCRA reporting requirements for the final year of the Contract before completion will be accepted by DEP.

E. The Contractor must provide a copy of the filed annual report to the Resident Engineer.

3.03 VISITORS

A. Allowing visitors and members of the public to tour an active construction site is discouraged due to the potential exposures to hazardous conditions
and materials associated with construction work. However, where necessary, approved and authorized visitors of the Contractor, subcontractors, or any other authorized agency, department, or other entity associated with the Contractor shall sign in at both the DEP/Contractor Security Booth and the Visitors’ Log maintained at the Contractor’s site office. Visitors are required to receive site orientation training, comply with all provisions of the EHASP, wear proper and appropriate PPE and be escorted at all times. All efforts should be made not to schedule site tours/visits at the time of the scheduled evacuation drills. Visitors must not be exposed to construction hazards without prior training to those construction hazards.

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ATTACHMENT A

CONTRACTOR’S ENVIRONMENTAL, HEALTH AND SAFETY REQUIREMENTS
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CONTRACTOR’S ENVIRONMENTAL, HEALTH & SAFETY REQUIREMENTS

1.1 Scope
The Department of Environmental Protection (NYCDEP) has developed procedures to ensure that contractors’ environmental, health and safety (EHS) records and programs are evaluated when NYCDEP is selecting a contractor or approving a subcontractor. These procedures also require that the contractors are properly prepared and trained to safely complete the work and to adhere to all EHS laws, rules and regulations. NYCDEP facilities are subject to requirements regarding qualification, supervision and activities of contractors.

The intent of this section is to advise the Contractor of the EHS training and Contract Award requirements for performing work at NYCDEP facilities as well as special procedures applicable to locations where hazardous materials are stored and used.

1.2 Notification of Hazardous Materials in Work Area
Hazardous materials present in large quantities include lead from the painted steel girders on the Bearkill Bridge and may include arsenic in the soil. The Contractor shall, at all times, when working at these facilities, exercise necessary precautions to avoid interaction with the hazardous materials feeds and/or storage systems and conform to all directions and instructions provided by NYCDEP.

1.3 Pre-Award Requirements
Within five (5) business days of NYCDEP request, the apparent low bidder shall provide the information specified herein; failure to provide the requested information may result in a rejection of the bid.

1.3.1 The Contractor shall provide a written description of its EHS programs (and associated training) and a certification that the Contractor’s program meets all OSHA, USEPA, NYSDEC and New York City regulations, and that the Contractor will abide by applicable NYCDEP policies and procedures, as appropriate and as provided to the Contractor by NYCDEP. A NYCDEP form (Attachment E of the NYCDEP Contractor Selection and Management procedure) will be provided to the Contractor for this purpose. When requested by NYCDEP, the Contractor shall submit a copy of its EHS and training programs for review.

1.3.2 The Contractor shall provide its Worker’s Compensation Rating (i.e., Experience Modification Rating or EMR) and a list of all of its employees’ job-related injuries and illnesses for at least the past three (3) years; worker’s compensation claims shall be included. In addition, the Contractor shall provide a list of all regulatory agencies (e.g., OSHA, NYSDEC, USEPA, NYCDEP) notices of violations, fines and reportable releases of chemical or petroleum products associated with the Contractor’s operations for, at a minimum, the last three (3) years. The EMR shall be provided on the insurance carrier’s letterhead (or equivalent insurance carrier communication) and the remaining information shall be provided on the NYCDEP-provided form or the Contractor’s letterhead signed by an officer of the company. The Contractor’s EHS evaluations on DEP projects shall be reviewed. The EHS evaluation process is described in DEP’s Contractor Selection and Management Policy.

A. If the Contractor’s EMR exceeds 1.0 the Contractor may be found to be a non-responsive bidder and its bid may be rejected.
B. If the Contractor has received a serious, willful or repeated OSHA final determination following the work-related death of an employee within the past 3 years, the Contractor may be found to be a non-responsive bidder and its bid may be rejected.

C. If the Contractor has received 3 or more repeat or willful OSHA final determinations within the past 3 years, the Contractor may be found to be a non-responsive bidder and its bid may be rejected.

D. If the Contractor has one or more Unsatisfactory six-month EHS evaluations during the most recent six evaluation cycles on any contract the Contractor may be found to be a non-responsive bidder and its bid may be rejected.

E. If the Contractor has received two or more Marginal six-month EHS evaluations during the most recent six evaluation cycles on any contract the Contractor may be found to be a non-responsive bidder and its bid may be rejected.

F. If the EHS and training program descriptions indicate that the Contractor understands its regulatory requirements, has an EMR that is at 1.0 or below, has no pattern or prior history of violations or releases, and has certified that its programs and training comply with all regulatory requirements; it may be awarded the contract.

1.3.3 For Joint Ventures the above information must be provided and will be reviewed for both the Joint Venture and the individual Joint Venture partners.

1.3.4 The subcontractor approval process requires an information submittal that includes the subcontractor EMR, program descriptions and certifications similar to those required for the Contractor. The above review criteria may also apply to the acceptance of Subcontractors performing a significant volume or aspect of the project.

1.4 Pre-Construction Orientation

1.4.1 Prior to commencing any work at the facilities indicated in Detailed Specification 01120 - (Multiple) Contract Summary, the Contractor shall be required to attend an orientation. After attending the initial orientation, the Contractor shall, in turn, provide an orientation to any of the Contractor’s employees assigned to work at the facility. This training must also be provided to subcontractors and lower tier contractors as well as any suppliers, contractor visitors and field consultants who will be on-site without being accompanied by a trained employee.

1.4.2 The Contractor shall receive and distribute to all workers who are to attend the orientation a hazardous material and safe work practices information package. If possible, it will be distributed at least two (2) days prior to the orientation. The workers shall sign for the packages and indicate that they have reviewed the contents prior to attending the orientation.

1.4.3 Prior to commencing any work at the facilities indicated in Detailed Specification 01120 - (Multiple) Contract Summary, the Contractor shall certify that it understands its obligations to train its employees and abide by applicable DEP policies and procedures while it is working at DEP facilities.

1.4.4 If the Contractor or subcontractor needs to add additional or replacement worker(s) to its crews, the new worker(s) must receive the hazardous materials information package and attend the orientation for the facilities as described in Sections 1.4.1 and 1.4.2.
1.5 Requirements During Work

1.5.1 The Contractor and subcontractors, and all of their employees shall, at all times when working at the facilities, wear photo-identification badges. The badges shall be provided only to employees who have received and reviewed the hazardous material and safe work practices information package and have attended the orientation. Personal protective equipment including steel-toed work shoes, hardhat, safety goggles, denim pants, life vests and tie off ropes when working in and around flowing water, etc., must be worn or carried by each on-site person at all times.

1.5.2 The Contractor and subcontractors and all of their employees shall, upon request, produce certificates, licenses and other documentation that laws or regulations require them to obtain in order to conduct activities they are performing (e.g., Asbestos Worker Certificate, FDNY Certificate of Fitness in New York City).

1.5.3 The Contractor shall, at all times when working at the facilities, exercise all necessary precautions to avoid interaction with the hazardous material feeds and/or storage systems and conform to all directions and instructions provided by the NYCDEP.

1.5.4 Contractor and subcontractor employees are restricted from entering all high-hazard process areas, unless access is required to perform their work. In coordination with the Contract Supervisor, the Contractor or subcontractor employees entering such process areas must obtain permission from the on-duty operator/Supervisor in person or by the telephone before entering and must inform the on-duty operator/Supervisor in person or by telephone upon leaving and follow all other facility access control procedures.

1.5.5 Any worker who fails to abide by the EHS requirements presented in the hazardous material and safe work practices information package and/or at the orientation shall, at the sole discretion of the NYCDEP, be denied access to the facilities and shall be replaced by the Contractor, as directed by the NYCDEP.

1.5.6 The Contractor shall immediately inform the NYCDEP Contract Supervisor and the facility’s Responsible Individual of all chemical or petroleum product spills or releases, of any contract employee OSHA-reportable workplace injuries or illnesses, and of any notices of violation resulting from work performed. Initial written reports shall be submitted by the next day. Refer to other safety specifications for additional investigation and reporting requirements.

1.5.7 NYCDEP will perform periodic evaluations of the contractor’s performance to ensure compliance with all EHS laws and regulations and NYCDEP and facility EHS requirements. The Contractor must correct non-compliance with any applicable laws, regulations and NYCDEP and facility EHS requirements when such non-compliance is communicated to it by NYCDEP. Failure to correct such non-compliance in a timely manner or repeated violation of any EHS law, regulation or NYCDEP/facility requirement, especially a violation about which it received a prior notification, is grounds for stopping work until corrective actions are completed. Such failures will also be considered when evaluating the Contractor’s submittals for future work proposals.
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ATTACHMENT 7
SECTION 01520
Temporary Construction Facilities

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resident Engineer's Field Office Trailer and Equipment
B. Land for Contractor's Use

1.02 RELATED DOCUMENTS

A. Special Specification DEP-10 – Allowance for Resident Engineer’s Field Office Supplies
B. Special Specification DEP - 1 – General Requirements

1.03 RESIDENT ENGINEER'S FIELD OFFICE TRAILER

A. The Contractor shall provide and maintain a new field office trailer with equipment as hereinafter specified. The field office shall be delivered to a location designated by the Resident Engineer, and shall be completely equipped and ready for the Resident Engineer's use within thirty (30) days after the date of the Notice to Commence Work.

1. The Contractor shall provide and maintain electrical power supply for the trailer.
2. The Contractors shall obtain and pay for all permits for the trailer.
3. Services for the trailer shall be as hereinafter specified.

B. The trailer shall be manufactured by Williams Mobile Offices, Inc., Baltimore, MD Model No. 40x10 or Design Space International, Department 40, Bala-Cynwyd, PA or an approved equal, meeting the following minimum requirements:

1. The trailer shall be an office type, fully insulated trailer, approximately 40 feet long, and 10 feet wide, overall, and approximately 36 feet long and 10 feet wide, inside.
2. The exterior of the trailer and the wheel rims shall be given an approved prime coat of paint followed by one coat of approved exterior enamel. The enamel finish coat shall be Dupont Lacquer, or approved equal, color to be furnished upon award of Contract and approved by the Resident Engineer. The trailer shall be lettered on right hand side with black block lettering having white borders as directed by the Resident Engineer.
3. All windows and doors shall have aluminum screens. All windows that are not fixed shall be covered on the exterior with 1/4 inch Plexiglass, covering the full window area. The Plexiglass shall be secured by means of carriage bolts through the trailer wall with nuts fastened from the interior.

4. Interior shall be finished in 1/4-inch plywood. Plywood shall be finished in natural color, with two (2) coats of varnish or lacquer.

5. The interior of the trailer shall be divided by partitions with doors into one large room in the front of the trailer and a private office approximately 8 feet by 9 feet, 5 inches at the rear of the trailer. Dimensions for all rooms shall be determined by the Resident Engineer. A washroom, wardrobe closet and storage closets shall be located in the large room. The size and numbers of wardrobe and storage closets shall be as directed by the Resident Engineer. All closets and partition doors shall be furnished with integral locks.

6. The washroom shall be equipped with a flush toilet with elongated bowl, a washbasin with two faucets, a medicine cabinet complete with supplies equal to Hospital Supply and Watters Laboratories, Inc., Model No. 1 and a roll toilet tissue holder. A 10-gallon capacity electric hot water heater shall be furnished and installed.
   a. A power exhaust fan shall be installed in the ceiling of the washroom. The fan shall be an 8-inch fan as manufactured by Nutone Corp., Cincinnati, OH, or Model No. 4C210 by Broan Co., Racine, WI or an approved equal.
   b. Plumbing and fixtures shall be approved house type. Each appliance shall be trapped and vented. The trailer shall have a single discharge connection.

7. The heating system shall consist of thermostatically controlled built-in electrical baseboard heaters capable of maintaining 70°F temperature in all rooms even with exterior air temperature being 0°F.

8. The trailer shall be equipped with an armored cable wiring system conforming to the requirements of the Electrical Code of the City of New York. The wiring system shall be complete with an entrance
connector with provision for grounding an enclosed, fused service switch of adequate size and branch circuit fuse box.

a. Separate circuits shall be provided for lighting and the various other electrically operated items furnished by the Contractor. Minimum circuit size shall be two conductor No. 12 with heavier conductors furnished as required and to operate specified air conditioners. The entire trailer and electrical system shall be properly grounded.

b. Lighting shall be furnished by a minimum of two, four (4) foot single tube fluorescent fixtures for the smaller room; four (4) foot single tube fluorescent fixtures for the larger room and an incandescent fixture for the washroom. Wall switches shall be provided for all fluorescent ceiling fixtures.

c. A minimum of two (2) duplex convenience outlets shall be installed in the smaller room, four (4) duplex outlets in the larger room, and one single convenience outlet in the washroom. These outlets shall be in addition to connections and outlets for the water heater and the water cooler. All outlets shall be of the grounded type.

1.04 BUILT-IN TRAILER EQUIPMENT

A. In addition to the washroom, partitions, wardrobe and storage closets, the following items shall be built into the trailer.

1. A wall type plan rack at least 42 inches wide.

2. One kitchenette unit consisting of a microwave, sink and dormitory size refrigerator as manufactured by the Acme Kitchenettes Corp., Route 9, Hudson, NY, Model No. RS60MW, or an approved equal. It shall be installed where directed complete with plumbing, sanitary, and electrical connections. The unit shall have a water filter. Filter must be changed per manufacturer’s recommendations. The Contractor shall furnish all labor, materials, tools and equipment necessary for furnishing, installing, connecting, testing and placing into satisfactory operation, a cold water, under counter filter which utilizes its own spout. The Filter shall be an Aqua-Pure AP - 200, with the Aqua-Pure AP 217 taste/odor cartridge or an approved equal, and conform and be listed under NSF Standard 42 (Class II). The replacement cartridges for the AP-217 are to be supplied and delivered as directed by the Resident Engineer.
SECURITY SYSTEMS FOR RESIDENT ENGINEER'S FIELD OFFICE

A. The trailer shall be provided with approved fire, panic, and intrusion alarm systems. The alarm system shall be connected via the telephone service in the trailer to an approved central monitoring station so that continuous monitoring will be in effect. The DEP Police Ashokan Precinct (845) 657-8433 is one of the contacts to be notified if the alarm is sounded.

1. Fire Alarm System. In each of the smaller offices, located at the end of the trailer in the office complex, heat detectors rated at 135°F shall be located in the ceiling and as close to the middle of the room as possible. The larger middle office shall have a single unit that will detect both heat and smoke. The fire system shall be wired directly to a central control panel located in the City's field office complex. Upon activation of the fire system, sirens with a steady tone will sound the fire alert. All sirens will automatically shut down and re-arm after fifteen minutes.

2. Intrusion and Panic Alarm System. Each opening (doors and windows) in the entire trailer shall be protected so that if they are opened while the system is activated, an alarm condition will result. Upon activation of the intrusion system, sirens with a modulating tone will sound an alert. All sirens will automatically shut down and re-arm after ten minutes.

   a. Panic alarm units shall be installed in two locations as designated by the Resident Engineer. When this system is activated, there will not be a siren response; this system will be activated in the silent mode.

      i. A remote tamper proof turn off switch shall be installed on the outside of the trailer at a location designated by the Resident Engineer so that the intrusion system can be shut down before entering the field office. The remote turn off switch shall not effect the fire or panic system; turn off switches for these systems shall be located as directed by the Resident Engineer. The intrusion and panic system shall be connected to the central control panel located in the City's field office trailer.

3. Control Equipment

   a. All wiring shall be to be current standards being used in the alarm industry and, where possible, all wires shall be hidden.

   b. All contacts shall be recessed and moisture proof.
c. The single unit smoke and heat detectors shall be of a photoelectric type that provide quick response to flaming and smoldering fires and designed to permit easy entry of smoke from any direction. The heat detector portion of this unit shall be activated at 135°F. The combined unit will also have a LED pulse located on the face of the unit to indicate that power is on. NO RADIOACTIVE materials will be permitted in this fire alarm sensor.

d. An 8-ohm siren will be provided. The siren will be installed in a tamper proof steel siren box located on the exterior of the trailer at least 10 feet above the top of the trailer roof.

i. The external siren shall be of 30-watt capacity with two separate and distinct alarm signals for both warble and continuous tone selections so as to differentiate between fire and burglar alarm. It shall be Ademco Model No. 715 "Blaster" electronic siren in tamper proof cabinet or an approved equal. There shall be an amber strobe light attached on or adjacent to the siren box, wired so that it is activated when the siren is activated.

ii. The outside wiring shall be installed in protective seal conduit.

e. Control panel shall be provided and installed in the City's field office trailer. The control panel shall be equipped with at least three channels - one for fire, second for intrusion and third for panic. The control panel shall also have DC batteries that will supply back-up power in the event that AC power is interrupted. Each channel of the control panel will be wired directly to a digital communicator. The control panel shall have one delay entrance exit channel. The control panel and system shall be a 12-volt system.

i. The control panel shall have indicating lights that indicate the mode of the:

   (a) Protective circuit
   (b) Alarm memory
   (c) AC power on
   (d) Armed and a switch for bell/battery test and fire reset

f. The digital communicator shall be furnished and installed adjacent to the control panel in the City field office trailer.
It shall be of a type that will notify the approved central station of the specific alarm condition (fire, intrusion, or panic). The digital communicator will also inform the approved central station of low power on the system. The Contractor shall arrange through the New York Telephone Company for the necessary interconnect equipment so that the digital communicator may be connected to the telephone service at the field office trailer. The connection of the New York Telephone Company shall have line seizure so that the outgoing signal from the digital communicator cannot be interrupted. The current standards used by approved central station regarding "call back to verify" alarm conditions shall be employed.

i. The Contractor shall install a minimum of four external floodlights to illuminate Resident Engineer's trailer and surrounding walkways. They shall be activated by a photoelectric unit with a backup timer.

g. The Contractor shall provide and install a complete security system as outlined above. All costs, including connection to the New York Telephone Company, central station monitoring and repair and maintenance charges will be borne by the Contractor; the costs thereof shall be included in lump sum price bid for the Contract.

1.06 MOVEABLE EQUIPMENT

A. The following moveable equipment shall be furnished for the trailer:

1. As manufactured by the Hon Co., Newark, NJ, or the Cole Business Furniture Co., 150 East 58th Street, New York, NY, or an approved equal:

   a. One (1) desk with lock, 72 inches by 36 inches, Style No. 7601 or No. 6195 respectively, black.

   b. Three (3) desks with locks, 42 inches by 30 inches, Style No. 8351 or 537 respectively.

   c. Four swivel chairs with arms upholstered with black elastic vinyl, Style No. C26 or No. 9825NE.

   d. One (1) steno chair, black, Style No. 366 or No. 9810NE.

   e. Three (3) side chairs, black, Style No. 046 or No. 9626 respectively.

   f. One (1) book case 41 inches H x 34 inches W x 1'-5/8" D, Style No. 542A or No. 342 respectively.
g. One (1) fireproof, 4-drawer legal size filing cabinet with lock, Style No. 94CP or F49 respectively.

h. Three (3) metal filing cabinets with lock, four drawer legal size, Style No. 314CP or No. 1904 respectively.

2. Five (5) waste paper baskets 15-1/4 inches x 11-1/4 inches x 20 inches as manufactured by Rubbermaid, Model No. K6-2957-BK, or by Lustrow, Division of Borden, Columbus, OH, Model No. B-W44, or an approved equal.

3. One (1) drafting table, 37-1/2 inches x 60 inches as manufactured by Plan Hold, 17621 Von Karman Ave., Irvine, CA, Model No. 350T-60, or by Anco Wood Specialties, Inc., 71-02 80th Street, New York, NY, No. 602F, or approved equal.

4. Two (2) dry chemical fire extinguishers, UL listed 1A-10BC as manufactured by Walter Kidde & Co., Inc., Belleville, NJ, Model No. 2-5/8 TPS-2, or by J.L. Industries, 4450 West 78th Street, Bloomington, MN, Model No. Cosmic 2-1/2E, or an approved equal.

5. Electric water cooler with water filter. Filter must be changed per manufacturer's recommendations.

6. One (1) copying machine as manufactured by Xerox Corp., Model No. 5034, or by Canon NP-125 or an approved equal. The Contractor shall maintain the machine for the duration of the Contract, providing all ancillary supplies.

7. Two (2) window type air conditioners, a 9000 BTU unit installed in the smaller room and a 12,000 BTU unit installed in the larger room. Both units shall have E.E.R. rating in excess of 9.9.

8. One (1) Sears Model No. 22G37061C microwave oven or an approved equal.

9. One (1) fax machine as manufactured by Xerox Corp., Telecopier Model No. 7020 or an approved equal. The Contractor shall maintain the machine for the duration of the Contract, providing all ancillary supplies including Xerox quality paper.

10. Two (2) waterproof digital cameras, Olympus - TG-830 iHS 16.0-Megapixel Digital Camera, or an approved equal.

11. One (1) waterproof auto level made by Nikon, model AX-2S - 20x Automatic Optical Level Package with Stadia, Tripod, Rod, and Carrying Case, or an approved equal.

12. One (1) coffee pot.
13. Specifications for Personal Computer and Associated Software. Under this Section, the Contractor shall supply three (3) complete computer systems, with consumable supplies and software as specified below. The computer systems shall be delivered to the Field Office Trailer as determined by the Resident Engineer. At the conclusion of the Contract, the computer system shall remain the property of the Contractor. The Computer System shall be as follows:

a. Laptop: As noted below or an approved equal:
   i. HP EliteBook 8570p - 15.6" - Core i7 3520M - Windows 7 Professional 64-bit - 16 GB RAM - 180GB III SSD Hard Drive - DVD SuperMulti - 15.6" HD+ anti-glare wide 1600 x 900 / HD+ - AMD Radeon HD 7570M - Bluetooth 4.0 EDR HP
   ii. Nylon Carrying Case
   iii. HP DOCKING STATION
   iv. HP LCD STAND or HP Adjustable Display Stand
   v. HP LA2206x Widescreen LED Monitor HA/Pivot
   vi. LOGITECH MOUSE or HP USB Keyboard & Mouse

b. Printer
   i. One (1) Hewlett-Packard LaserJet printer or an approved equal.
   ii. Printer shall have 8 MB of additional RAM installed.
   iii. Two (2) parallel interface printer cables (10' long).

c. Custom mount anti-glare, anti-radiation, anti-static 21" lens for color monitor.

d. Surge protectors for each piece of electronic equipment equal to SL Waber Dataguard Model DG315SA.

e. One (1) back-up power supply with 30 minutes backup capability.

f. Consumable Supplies:
   i. Toner cartridges for laser printer, as required for duration of Contract.
   ii. One (1) plastic dust cover for laser printer.
   iii. One (1) plastic dust covers for PC system unit.

g. Software:
   i. Symantec or McAfee Antivirus or an approved equal.
ii. Microsoft Windows 7 or later version pre-installed with manuals and CD.

iii. MS Office Professional for Windows 2010 (Word, Excel, PowerPoint, Access, etc.) - One (1) copy.

iv. Lotus Organizer for Windows (latest version), or approved equal - One (1) copy.

v. AutoCAD 2012

vi. Primavera P6 Professional Project Management, latest version, with 5 years of software license update and support.

h. The Contractor is advised to contact the Resident Engineer before making any commitment with any outside vendor in connection with this purchase.

i. Service warranty for each computer system shall be provided for the duration of Contract.

ii. Upgrades for software shall be provided for the duration of Contract.

i. Internet Access - The Contractor shall provide high speed internet access for each computer for the duration of the Contract.

j. Maintenance and Support

i. The Contractor shall furnish, at the Contractor's expense for the duration of the Contract, a renewable service contract for on-site maintenance of all hardware and software.

ii. The maintenance response time for the hardware and software shall be not more than twenty-four (24) hours from the time of notification of a service related problem.

k. The Contractor shall furnish any item inadvertently omitted in this Section of the Contract Specification that is required to insure the proper operation of the personal computer systems and software as specified above.

1.07 TRAILER SERVICES

A. Plumbing

1. The Contractor shall include all water supply, drainage, and piping required for complete operating installation.
2. A temporary water service shall be provided and extended into the trailer and all fixtures requiring water supply shall be properly connected up.

3. All necessary soil, waste, vent, and drainage piping shall be provided and connected for disposal. Sewage shall be pumped out on a bi-weekly or as-needed basis.

4. All water pipes shall be frost proofed with a heat trace to prevent freezing. The plumbing work shall be maintained and shall be repaired when and as directed by the Resident Engineer and as required, and kept in perfect condition during the performance of the Work under the Contract.

B. Electrical Service

1. The Contractor shall provide sufficient capacity in the temporary lighting and power system to furnish ample power for the Resident Engineer's Trailer.

2. Electric service shall be 100 amperes, 120/208 volts, 3 phase, 60 hertz. The electrical installation shall conform to the requirements of the City of New York Electrical Code and the Bureau of Electrical Control. The Contractor shall pay all costs of supplying energy and maintaining service.

C. Telephone Service

1. The Contractor shall pay all costs for underground installation of telephone cable and supplying telephone service. Three two-line push button telephones (two sets for the large room and one set for the small room) shall be installed.

2. Telephone service for the trailer shall be brought from the nearest existing telephone manhole. The Contractor shall make his own arrangements for service with the local telephone company approved by the Resident Engineer and shall conform to the telephone company’s requirements.

3. Telephone service for the trailer shall include three (3) lines; two for telephone and one for modem, which can also be used by the alarm company if necessary.

1.08 TRAILER INSTALLATION

A. Installation of the trailer shall be where directed by the Resident Engineer or shown on the Contract Drawings.
1. Concrete block foundation walls shall be constructed as directed. The walls shall completely enclose the bottom of the trailer. Stairs, platform, and pipe rails shall be constructed at each door.

2. The site of the trailer shall be graded as directed by the Resident Engineer and shall contain a parking area and approach road constructed to the satisfaction of the Resident Engineer.

B. All exterior items not factory painted shall be painted by the Contractor as directed by the Resident Engineer.

1.09 MAINTENANCE OF TRAILER

A. The Contractor shall provide and pay in full for all maintenance of the trailer including janitorial services. The Contractor shall furnish, replace and replenish, as necessary, electric light bulbs, fluorescent tubes, fluorescent tube covers, toilet tissue, paper towels, soap, and all else required to maintain the trailer in a clean and satisfactory condition. The trailer floors shall be swept with sweeping compound three times a week, washed once a week on a specific date to be directed by the Resident Engineer. The Contractor shall maintain heating and cooling (AC) systems, including initial and seasonal changes of air filters, the hot water heater and entire plumbing system, the exhaust fans for each trailer and the electrical system. Trash shall be removed on a daily basis. The Contractor shall maintain an adequate supply of soap, toilet tissue, paper towels and plastic garbage bags.

B. The premises shall be exterminated monthly, at a minimum, to control insects and rodents. The Contractor shall provide for an annual inspection of all fire extinguishers and replace any not meeting current requirements. The Contractor shall remove all snow and ice, as necessary, at each entrance to the complex, including the parking lot. All equipment furnished under this Contract shall be maintained and repaired by the Contractor as necessary. All supplies such as copy and computer paper, staples, toner or any other component necessary for the daily use and operation of the supplied equipment shall be supplied on an as needed basis for the full duration of the Contract.

C. The Contractor shall maintain and repair the trailer and its equipment and services in a first-class condition as stipulated, to the satisfaction of the Resident Engineer during the performance of the Work under this Contract until the issuance a Certificate of Substantial Completion.

D. The Contractor shall include in the total price bid for the Contract the cost of monthly bills for electric energy and telephone calls.
1.10 DISPOSITION OF TRAILERS AND EQUIPMENT
   A. At the completion of all Work, the Contractor shall dispose of the Resident
   Engineer's trailer and all its equipment. See Contract Drawings for final
   landscaping requirements.

1.11 ALLOWANCE FOR MAINTAINING FIELD OFFICE SUPPLIES
   A. The Contractor shall include in his bid for the Contract, the respective
   allowance specified in Detailed Specification DEP-10 - Allowance for
   Resident Engineer’s Field Office Supplies – to cover the cost of office
   supplies required by the Engineer and his staff during the course of
   construction.

1.12 LAND FOR CONTRACTOR'S USE DURING CONSTRUCTION
   A. A limited space, cleared by DEP BWS is available on the site for
   construction staging and field offices for the Contractor.
   
   B. Contractor may require additional space for construction staging beyond the
   limited space available at the site. As such, each Contractor shall provide for
   space off-site and all such costs shall be included in the lump sum price bid
   for Item DEP - 1 – General Requirements for the Contract.
   
   C. Contractor may be required to move his field offices once during
   construction in order to sequence the Work. All such moving costs shall be
   included in the lump sum price bid for Item DEP - 1 – General Requirements
   for the Contract.
   
   D. DEP reserves the option to require the Contractor to vacate his assigned field
   office area within sixty (60) days after notice.
   
   E. Trailers utilized by the Contractor shall present a clean and neat exterior
   appearance and shall be in a state of good repair. Trailers, which, in the
   opinion of the Resident Engineer, require exterior painting or maintenance,
   will not be allowed on the site.
   
   F. Following the completion of the Contract or as indicated on the Contract
   Documents or directed by the Resident Engineer, the Contractor shall remove
   his plant, shanties, field offices, materials, equipment, etc., from the allocated
   site and restore the site to its original condition, satisfactory to the Resident
   Engineer.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION
PART 1 GENERAL

1.01 SECTION INCLUDES
A. Requirements of Regulatory Agencies
B. Scheduling of Cleaning Operations
C. Cleaning Materials
D. Site Maintenance Requirements
E. Snow and Ice Removal
F. Disposal of Waste Materials
G. Final Cleaning

1.02 RELATED SPECIFICATIONS
A. Detailed Specification 01733 - Construction Waste Management

1.03 PAYMENT
A. No separate payment will be made for the Work under this Section; the costs hereof shall be included in the lump sum bid price for Contract Item DEP-1 General Requirements.

1.04 GENERAL REQUIREMENTS
A. The Contractor shall collect and dispose of all debris and rubbish resulting from its Work. Cleaning shall be performed daily and trash removal shall be performed weekly, or more frequently, as directed by the Resident Engineer, whenever the debris or rubbish interferes with the Work under the Contract, plant operations or presents a fire hazard and as noted hereinafter.
B. Cleaning Work shall conform to the requirements of Section 01733 - Construction Waste Management.

1.05 REQUIREMENTS OF REGULATORY AGENCIES
A. In addition to the requirements herein, the Contractor shall maintain the cleanliness of the work areas and surrounding premises within the work limits so as to comply with federal, state, and local fire and safety laws, ordinances, codes and regulations.
B. The Contractor shall comply with all federal, state and local anti-pollution laws, ordinances, codes and regulations when disposing of waste materials, debris, rubbish, snow and ice.
1.06 SCHEDULING OF CLEANING OPERATIONS

A. The Contractor shall schedule trash removal and cleaning operations at intervals as directed by the Resident Engineer.

1. So that dust, wash water or other contaminants generated during construction do not damage or mar painted or finished surfaces.

2. To prevent accumulation of dust, dirt, debris, rubbish and waste materials on or within the work site or on the premises surrounding the work site.

PART 2 PRODUCTS

2.01 CLEANING MATERIALS

A. The Contractor shall use only cleaning materials recommended by the manufacturer of the surface to be cleaned.

B. Each type of cleaning material shall be used on only those surfaces recommended by the cleaning material manufacturer.

C. Use only cleaning materials which will not create hazards to health or property.

PART 3 EXECUTION

3.01 SITE MAINTENANCE REQUIREMENTS

A. The Contractor shall keep the Work and surrounding premises within work limits, including their staging and storage areas, free of accumulations of dirt, dust, waste materials, debris and rubbish.

B. The Contractor shall keep dust generating areas wetted down.

C. The Contractor shall provide suitable containers in sufficient quantity for storage of waste materials, debris and rubbish.

D. The Contractor shall dispose of waste materials and surplus materials off site at a regulatory-approved disposal site at intervals as needed.

3.02 SNOW AND ICE REMOVAL

A. The Contractor shall remove snow and ice from the following areas during the life of the contract, from when construction begins until the final roadway is turned over to DEP:

1. Along DEP Road Seven from State Route 23 to the STIC Intake Road (Stage 1) and from the STIC Intake Road to State Route 30 (Stage 2) depending upon which Stage the contractor is occupying.
the roadway for construction. If the contractor shuts down their operations for the winter, then the contractor is required to have the road open and passable and the snow and ice removal will revert back to the local municipalities. If the road is not passable during the winter, the contractor will be responsible for snow and ice removal for the entire Stage 1 and Stage 2 which contains the section of road that is not passable.

2. The sidewalks and parking areas associated with the Resident Engineers field office.

3. All construction access roads.

4. Any plant walkway, which cannot be accessed by the plant's snow removal equipment due to construction activities.

5. Any additional areas designated by the Resident Engineer.

6. Snow and ice removal shall be before 7:00 AM whenever there is a snowfall storm and before 7:00 AM on the day following the termination of the snowfall storm.

7. During storms, the Contractor is responsible to provide a passable route along the roadway as directed by the Resident Engineer.

8. In addition, when directed by the Resident Engineer, snow and/or ice removal shall be started immediately (within one hour of directive to proceed) by the Contractor.

9. The Contractor shall haul the removed snow and ice for disposal as per the applicable local rules.

10. Spreading of Salt and Sand

   a. The Contractor shall furnish all labor, tools, equipment, and materials necessary to provide the following services specifically requested and authorized in writing by the Resident Engineer:

   b. Spread calcium chloride over all areas of the Resident Engineer’s parking lot and spread sand on the steps and platforms at the entrances to the Resident Engineer’s field office. One part salt to four parts sand will be used on DEP Road 7.

   c. Salt and sand shall be spread prior to a snowstorm.

   d. Upon termination of a snowstorm, the Contractor shall remove all sand from the steps and platforms at the entrances to the Resident Engineer’s field office.
e. Disposal of sand shall be the responsibility of the Contractor.

3.03 DISPOSAL OF WASTE MATERIALS

A. The Contractor shall not burn or bury rubbish and waste materials on the worksite.

B. The Contractor shall not dispose of volatile or hazardous wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains or on the ground.

C. The Contractor shall not discharge wastes into waterways.

3.04 FINAL CLEANING

A. At the completion of the Work, the Contractor shall remove all rubbish from and about the site of the Work, and all temporary structures, construction signs, tools, scaffolding, materials, supplies and equipment which it or any of its subcontractors may have used in the performance of the Work. Contractor shall broom clean paved surfaces and rake clean other surfaces of grounds.

B. The Contractor shall thoroughly clean in its respective work areas all materials, equipment and structures; all marred surfaces shall be touched up to match adjacent surfaces; dirty filters and burned-out lights replaced as required; all glass surfaces cleaned and floors cleaned and polished so as to leave work in a clean and new appearing condition.

C. The Contractor shall remove spatter, grease, stains, fingerprints, dirt, dust, labels, tags, packing materials and other foreign items or substances from interior and exterior surfaces, equipment, signs and lettering in its work area.

D. The Contractor shall remove paint from and clean and restore all equipment and material nameplates, labels and other identification markings in its work area.

END OF SECTION
ATTACHMENT 9

1. Sheet No. 7 (Drawing No. QUAN-1)
2. Sheet No. 81 (Drawing No. GP-44)
3. Sheet No. 82 (Drawing No. GP-45)
4. Sheet No. 83 (Drawing No. GP-46)
5. Sheet No. 127 (Drawing No. DS-1)
6. Sheet No. 137 (Drawing No. DS-11)
7. Sheet No. 139 (Drawing No. DS-13)
8. Sheet No. 140 (Drawing No. DS-14)
9. Sheet No. 146 (Drawing No. ST-1)
10. Sheet No. 147 (Drawing No. ST-2)
11. Sheet No. 156 (Drawing No. ST-11)
12. Sheet No. 157 (Drawing No. ST-12)
### ESTIMATE OF QUANTITIES

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<td>PRECASTED CONCRETE BOX Beam Units</td>
<td>SY</td>
<td>1,498</td>
<td></td>
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</table>
EXISTING DITCH TO REMAIN

REFERENCES:
1. FOR SLOPE RECONSTRUCTION DETAILS, SEE DWG. NO. DS-19.

NOTES:
1. IDENTIFIED AS SENSITIVE AREA. FOR WORK AROUND SENSITIVE AREAS, SEE NOTE 4 ON DWG. NO. P-1.
2. WORK TO BE PERFORMED UNDER SINGLE LANE CLOSURE WITH FLAGGERS. SEE NYSDOT STANDARD DRAWING 619-60 FOR DETAILS. SEE NYSDOT STANDARD SPECIFICATIONS SECTION 619 FOR WORK ZONE TRAFFIC CONTROL DETAILS.
3. CLEARING AND GRUBBING TO BE PERFORMED UNDER ITEM DEP-2.
4. IDENTIFIED AS CONSTRUCTION STAGING AREA OR A.O.B.E. ALL WORK FOR CONSTRUCTION STAGING AREA TO BE PAID UNDER ITEM DEP-4. FOR DETAILS SEE DWG. NO. MD-7. UPON COMPLETION OF WORK, AREA IS TO BE DEEP RIPPED IN ACCORDANCE WITH THE 2008 NYSDEC DEEP-RIPPING AND DECOMPACTION GUIDANCE DOCUMENT.

THE CITY OF NEW YORK
ENVIRONMENTAL PROTECTION

RECONSTRUCTION OF ROADWAYS ALONG THE WEST SIDE OF THE ROCKAWAY PENINSULA, BROOKLYN; AND REHABILITATION OR REPLACEMENT OF BRIDGES AND other PUBLIC WORKS: CAT-186

ADDENDUM NO. 2  
Contract CAT-186

October 23, 2015
REFERENCES:
1. FOR SLOPE RECONSTRUCTION DETAILS, SEE DWG. NO. DS-19.

NOTES:
1. IDENTIFIED AS SENSITIVE AREA. FOR WORK AROUND SENSITIVE AREAS, SEE NOTE 4 ON DWG. NO. P-1.
2. WORK TO BE PERFORMED UNDER SINGLE LANE CLOSURE WITH FLAGGERS. SEE NYSDOT STANDARD DRAWING 619-60 FOR DETAILS. SEE NYSDOT STANDARD SPECIFICATIONS SECTION 619 FOR WORK ZONE TRAFFIC CONTROL DETAILS. THE CONTRACTOR SHALL BE PROHIBITED FROM CONSTRUCTING A TEMPORARY ACCESS ROAD TO WORK LOCATION AND FROM CLOSING THE ROAD AND INSTALLING A DETOUR.
3. CLEARING AND GRUBBING TO BE PERFORMED UNDER ITEM DEP-2.
4. TEMPORARY CONCRETE BARRIER (ITEM 619.1702) AND TEMPORARY IMPACT ATTENUATORS (ITEM 619.1802) TO BE INSTALLED WHERE GUIDE RAIL HAS BEEN REMOVED.
5. FOR SLOPE RECONSTRUCTION DETAILS, SEE DWG. NO. 05-19.
REFERENCES:
1. FOR HEADWALL REPAIR DETAILS, SEE DWG. NO. DS-19.

NOTES:
1. IDENTIFIED AS SENSITIVE AREA. FOR WORK AROUND SENSITIVE AREAS, SEE NOTE 4 ON DWG. NO. P-1.
2. WORK TO BE PERFORMED UNDER SINGLE LANE CLOSURE WITH FLAGGERS. SEE NYSDOT STANDARD DRAWING 619-60 FOR DETAILS. SEE NYSDOT STANDARD SPECIFICATIONS SECTION 619 FOR WORK ZONE TRAFFIC CONTROL DETAILS.
   THE CONTRACTOR SHALL BE PROHIBITED FROM CONSTRUCTING A TEMPORARY ACCESS ROAD TO WORK LOCATION AND FROM CLOSING THE ROAD AND INSTALLING A DETOUR.
3. CLEARING AND GRUBBING TO BE PERFORMED UNDER ITEM DEP-2.
4. TEMPORARY CONCRETE BARRIER (ITEM 619.1702) AND TEMPORARY IMPACT ATTENUATORS (ITEM 619.1802) TO BE INSTALLED WHERE GUIDE RAIL HAS BEEN REMOVED.
<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>ITEM DESCRIPTION</th>
<th>UNIT</th>
<th>ITEM NUMBER</th>
<th>ITEM DESCRIPTION</th>
<th>UNIT</th>
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<th>ITEM DESCRIPTION</th>
<th>UNIT</th>
<th>UNIT</th>
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<tr>
<td>704.29</td>
<td>removal of substructures</td>
<td></td>
<td>704.30</td>
<td>unclassified excavation and disposal</td>
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<td>704.31</td>
<td>excavation in place</td>
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<td>704.32</td>
<td>select fill</td>
<td></td>
<td>704.33</td>
<td>select fill</td>
<td></td>
<td>704.34</td>
<td>permanent or temporary excavation</td>
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<td>704.35</td>
<td>geotechnical services</td>
<td></td>
<td>704.36</td>
<td>temporary railroad diversion structure</td>
<td></td>
<td>704.37</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ADDITION NO. 2
Contract CAT-186

PLAN
Scale 1/4" = 1'-0"

STONE INLET ELEVATION
Scale 1/2" = 1'-0'

NOTE:
1. Work at the shoreline, bridge, and culverts shall be removed of debris and coworkers along Deep Gulch and Detour along the east side of the shoreline, beginning with the abutment at the shoreline. Work in the stream bed beneath existing conditions can only be done from June 1 to September 30. All temporary waterway erosion structures shall be in place prior to any removal of reconstruction to the satisfaction of the Engineer. Temporary waterway erosion structures shall consist of, but not limited to, the placement of sand bags at the inlet, to allow water to pass on the small side of the road. The contractor shall supply an adequate number of bags to be placed under FWD 200.0. Temporary waterway erosion structure shall be consistent with the drawing.

This removal shall follow the outlined shown on this drawing.

BID SET
THE CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION
CAT-186
RECONSTRUCTION OF ROADS ALONG THE WEST SIDE OF THE SCAHARE INCOVERY AND REPLACEMENT OF BEAKS, BRIDGES, AND PAPERS TO DR-70, DR-38, AND DR-47 DEMOLITION OF EXISTING HEADWALL, TYPICAL

Date: August 2015

Pages: 50
Printed: 150
EXISTING SUBSTRUCTURE SHALL BE REMOVED COMPLETELY UNDER THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, MAY STEPPED FOOTING MAY BE USED IN LIEU OF ROCK REMOVAL TO LOOSE AND/OR PEELING PAINT ON STEEL SURFACES MAY BECOME PAINT ON THE EXISTING STRUCTURE IS BELIEVED TO CONTAIN LEAD. LIMITS AND METHODS FOR REMOVAL OF PAINT AT LOCATIONS OF ALL PLACEMENT OF SELECT STRUCTURE FILL, ITEM 203.21, WHERE OUTLETS ARE SHOWN IN ABUTMENTS AND WALLS, THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR WITHOUT SAFETY AND HEALTH REQUIREMENTS.

B1. CONCRETE NOTES

- **Substructure Notes**
  - Existing Concrete Shall Be Removed Completely Under
  - Note Not Used.
  - All Placements of Slab Structure Full, 2018, Shall Be Connected to 95 Percent of Standard Proctor Maximum Height.
  - Existing Environment Material and Select Structure Full, Item 202.5, Shall Be Drawn Simultaneously in Contact with Either One of the Vertical Payment Line or Other Means Shall Not Be Used to Separate the Materials.
  - Excavation Receipt for Excavation Plan. Excavation Reused Plan. Excavation Material Recovered in the State of New York. Shall Be Subject to the Excavation Plan. These Excavations are Required to Be Used in the Site for the Use of the Substructure. This Plan Will Include in the Unit Price BID For the Various Items of the Contract, Unless Authorized Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Foundation Notes**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Field Conditions**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Environmental Protection**
  - **Substructure Notes**
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- **Survey**
  - **Substructure Notes**
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- **General Notes**
  - **Substructure Notes**
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- **Disposal of Hazardous Paint Removal Waste**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Decontamination Facilities**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Disposing of Hazardous Paint Removal Waste**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Deposition of Hazardous Paint Removal Waste**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Ground and/or Waterway Protection Items**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Superstructure Removal**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Availability of Plans**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Landslide**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **Flood Plain**
  - **Substructure Notes**
  - The Contractor's Attention is Directed to the Fact That, Due to the Nature of Reconstruction Projects, The Exact Extent of Reconstruction Work Cannot Be Allocated or Approved to the Contractor Without Written Permission From the Engineer. Allowances Without Written Permission From the Engineer. All Areas Disturbed By the Contractor Without

- **General Notes**
  - **Substructure Notes**
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