

# City of Cambridge

## PURCHASING DEPARTMENT

795 Massachusetts Ave. • Cambridge, Massachusetts 02139-3219

Amy L. Witts  
*Purchasing Agent*

**TO:** All Bidders

**FROM:** City of Cambridge

**DATE:** January 8, 2015

**RE:** File No. 6676 – Concord Lane and New Street Sewer and Pump Improvements  
Project - Addendum No. 1

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**This addendum is comprised of the following:**

**Summary of Pre-Bid Meeting Minutes**  
**Response to Bidder Questions**  
**Modifications to Drawings**  
**Modifications to Specifications**

All other details remain the same.

A handwritten signature in cursive script, reading "Amy L. Witts", written over a horizontal line.

Amy L. Witts  
Purchasing Agent

**Addendum No. 1**

CITY OF CAMBRIDGE, MASSACHUSETTS  
SPECIFICATIONS  
FOR CONCORD LANE SEWER SEPARATION AND NEW STREET SEWER AND PUMP  
STATION IMPROVEMENTS PROJECT

**ADDENDUM NO. 1**

JANUARY 8, 2015

**I. GENERAL**

The attention of bidders submitting proposals for the above referenced project is called to the following Addendum to the contract plans and specifications. The items set forth herein, whether of omission, addition, substitution, or clarification are all included in the proposed work. This addendum consists of 18 pages, numbered Pages 1 of 18 through 18 of 18 with attachments.

This addendum is comprised of the following:

- Summary of Pre-Bid Meeting Minutes
- Response to Bidder Questions
- Modifications to Drawings
- Modifications to Specifications

Inclusion of this Addendum must be acknowledged by inserting its number on page 00300-1 of the Bid Proposal. Failure to acknowledge any or all addenda in the above-specified bid may be cause for rejection of the bid by the Owner on the grounds that it is not responsive.

The Bid forms are being reissued as part of this Addendum. Modifications were only made to Specification Section 00300 – General Bid Form in this Addendum.

**II. SUMMARY OF PRE-BID MEETING**

1. The Pre-Bid Meeting was held on Thursday, December 18, 2014 at 11:00 at the City of Cambridge Department of Public Works (DPW) located at 147 Hampshire Street, Cambridge, MA. Meeting minutes and a sign-in sheet are attached.

**III. RESPONSE TO BIDDER QUESTIONS**

1. **Q1:** Drawing R-5, R-6, R-7 detail a concrete road slab 18”-24” below grade. Is it the intent to fully remove the slab only in areas that are in conflict with utility construction and for full depth road reconstruction at gravel and pavement required depths outside the trench areas?

**A1:** A concrete mass was recently discovered in 4 test pits on the west side of New Street for at a depth of 10” to 18” below the pavement. The concrete as referred to on Drawings R-5, R-6, and R-7 as a “road slab” is unknown. NSTAR Electric record drawings depict a duct bank within these limits of New Street that was not included in the survey mapping for this project or located by utility clearance. The NSTAR records are schematic, but the limits are

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CONCORD LANE SEWER SEPARATION AND NEW STREET SEWER AND PUMP STATION IMPROVEMENTS PROJECT

within the test pits and offset to the west side of the street where the test pits occurred. This duct bank information will be added to the drawings during Construction. Concrete was not discovered in the borings in New Street that are attached to the specifications as Appendix B.

Any concrete slab in conflict with proposed utility work will require removal within the trench limits in conflict. Full depth roadway reconstruction has been deleted by this addendum and modified to roadway pulverization.

2. **Q2:** On Page 02080-25 paragraph 3.6A and 3.6B, it states “Contractor shall hire environmental professional to keep accurate documentation of all air monitoring, which will be made available to the engineer or owner upon request. During excavation and construction, contractor shall monitor the air quality at and surrounding areas where construction activities involve soil handling such as excavation, re-location, staging, loading and grading of soil/waste materials.”

How is the contractor compensated for the air quality monitoring by an environmental professional? Is it the intent of the specification to have a person monitoring air quality thru out the entire project during all phases of excavation or during contaminated soil excavation only?

**A2:** Section 3.6A and B do not require that an Environmental Professional must perform monitoring. Section 3.6 A and B have been revised to clarify that Contractor personnel may perform air monitoring under the supervision of the Contractor’s Site Health and Safety Officer if they are trained to operate the air monitoring equipment, record measurements and compare measurements to action limits in the Contractor’s Health and Safety Plan.

It is the intent of the specification 02080 that during the excavation and construction, air quality shall be monitored during soil handling activities described in Section 3.6B. Appropriate monitoring techniques for dust and odors could consist of visual and olfactory observation or quantitative monitoring using instruments. Quantitative monitoring for total organic vapors and landfill gases (hydrogen sulfide/methane/ %LEL) is intended in areas where excavation has exposed soils that where the contamination is present or where the contamination status is unknown. Road reconstruction is not expected to result in the release of organic vapors, therefore Section 3.6A has been revised to clarify that monitoring for total organic and vapors is required at greater than 2 feet below ground surface.

The Contractor shall be prepared to provide gas/vapor/dust monitoring at any time and is responsible for determining that safe levels are maintained in accordance with his health and safety plan. Costs for monitoring are considered incidental to soil trenching and soil management and no additional payment will be made for monitoring. The Engineer will use discretion in requiring continuous monitoring if the Contractor demonstrates that hazardous conditions are not present or expected.

3. **Q3:** Item No. 2466.1 – Helical Piles – The specifications as it relates to the drawings does not match stations or include SMH #5. There is no reference to DMH #6. The total is incorrect.

**A3:** Section 1.1.B of Specification 02466 – Helical Piles, Sheet C-3, and Sheet GEO-1 have been modified in this Addendum.

4. **Q4:** Drawing R-6 details concrete pavers on HMA base. There is no bid item for this work.

**A4:** A bid item has been included in this addendum for this work (Item No 2500.10).

5. **Q5:** The Invitation to Bid section 00020, page 00020-3 indicates the D/MBE and D/WBE minimum goals to be 3.4% and 3.8% respectively. However the MBE forms from section 00311 indicates the minimum MBE goal to be 10% and does not mention a WBE goal. Please confirm the minimum goal for D/MBE firms is 3.4% and for D/WBE firms is 3.8%? Additionally, please confirm that M/WBE firms must also have a DBE certification.

**A5:** The City requires 10% minority-owned business enterprise (MBE) participation. See Section 00311 for description and forms. There is no City requirement for WBE participation.

SRF funding requires 3.4% disadvantaged minority-owned business enterprise (D/MBE) and 3.8% disadvantaged woman-owned business enterprise (D/WBE) participation. See Section 00825A-Attachment IV for description and Sections 00330 to 00334 for MassDEP forms.

Bidders may use any mix of participation as long as both City and SRF requirements are met. At a minimum, bidders need 10% MBE participation (a portion of the 10% MBE must also meet the 3.4% D/MBE required by MassDEP) and 3.8% D/WBE.

6. **Q6:** Specification Section 02100 – Site Preparation and Tree Pruning, paragraph 1.3.A makes reference to an “attached list of Urban Forestry work orders to be executed as part of this project” however we do not see any such attachment. Also, we do not see any specific designations on the plans for tree, stump, and shrub removal. Please advise.

**A6:** Item 2900.1 “Street Tree” has been removed from the Contract Documents in this addendum and any reference to new street trees. The bid items for tree and stump removals are included in the Contract Documents in the event that stumps or trees discovered within the project area are required for removal. Shrubs required for removal are included on sheet R-6.

7. **Q7:** Please verify Type 1, Type 5 single grate, Type 5 double grate, 3’x4’ catch basin quantities. The drawings details on CG-5 and 6 due not reflect the various types of catch basins.

**A7:** A: The Type 1, Type 5 Single Grate, Type 5 Double Grate, and 3’x4’ Catch Basin (Type 3) quantities have been verified and modified in this addendum. Bid Item 2604.7 Catch – Basin – Type 2 Double Grate has been added by this addendum. For catch basins proposed on New Street related to surface restoration improvements, the item catch basin types will be finalized during design and are currently shown as proposed catch basins on sheets R-5, R-6 and R-7. The figure numbers referenced in the details on sheets GC-5 and GC-6 reference City of Cambridge DPW standard detail numbers.

#### **IV. MODIFICATIONS TO DRAWINGS**

1. **SHEET G-2: Edits will be included in the Conformed Set.**
  - a. **DELETE** sheet C-8 in its entirety.

2. **SHEET GEO-1: Edits will be included in the Conformed Set.**
  - a. **ADD** text “EXCEPT BELOW DMH-6 TO BE PILE SUPPORTED” to Description of Over-Excavation for STA 0+10 to STA 3+70 in Table 1: Over-Excavation Schedule.
  
3. **SHEET GC-9: Edits will be included in the Conformed Set.**
  - a. **DELETE** details 31, 32, 33, 34, and 35.
  - b. **ADD** detail (**SK-ADD1**) for “Electrical Vault and Sump Detail.” (**8.5”x11” detail reissued as part of addendum**)
  
4. **SHEET C-1: Edits will be included in the Conformed Set.**
  - a. **DELETE** note in profile for Prop. 4’-dia 3’x4’ type-7 SMH-2 at Sta. 21+25 (9’L) and **REPLACE** with the following:  
“Prop. 4’-dia 3’x4’ type-7 SMH-2  
Sta 21+25 (9’L)  
Rim=19.61 (EG)  
Inv. In=11.88 (12”-dia PVC SS N)  
Inv. Out=11.88 (12”-dia PVC SS S)  
Inv. Out=15.50 (15”-dia PVC SS SE)  
(Contractor to verify invert elevations prior to ordering structure)”
  - b. **ADD** 10 LF of 12”-dia PVC SS pipe (sewer infrastructure) upstream and downstream (5-LF each side) of prop. SMH-2 at approx. Sta. 21+25 (9’L).
  - c. **ADD** the following note in plan on either side of Prop. SMH-2: “R&R exist. 12”-dia VCP SS with prop. 12”-dia PVC SS”
  - d. **ADD** the following note to identify the stormwater storage tank in plan at approx. Sta. 21+50 (6’R): “Exist. Stormwater Storage Tank See note 7.”
  - e. **ADD** the following note: “7. Contractor to clean exist. Stormwater Storage Tank Properly remove and dispose of remaining water and estimated 56CY of sediment. Power wash interior of tank or as directed by engineer.”
  
5. **SHEET C-3: Edits will be included in the Conformed Set.**
  - a. **DELETE** note in plan at approx. Sta. 2+63 (4’R) on Prop. 12”-dia PVC SS “See specification 02160 for limits of soldier pile installation near building foundation” and **REPLACE** with “See specification 02160 for limits of support of excavation installation near building foundation.”
  - b. **ADD** the following note in plan for Prop. 4’-dia Type-4 DMH-6 at Sta. 3+08 (12’R): “Install helical pile see detail sheet GEO-1”.
  - c. **DELETE** the following note in plan to Prop. 4’-dia Type-4 SMH-5 at Sta. 3+52 (7’R): “Install helical pile see detail sheet GEO-1”.
  
6. **SHEET C-4: Edits will be included in the Conformed Set.**
  - a. **ADD** 30-LF of 12”-dia DI SD pipe (drain infrastructure) to redirect existing lateral from existing CB at approx. Sta. 8+88 (5’L) to Prop. CB-5 at Sta. 8+81 (14’L).
  - b. **ADD** the following note in plan to redirected lateral: “Redirect inflow lateral to drain. See note 1.”
  - c. **MODIFY** the following note in plan for Prop. CB-5 at Sta. 8+81 (14’L): Add “Inv. In=14.77 (12”-dia DI SD N).”

7. **SHEET C-5: Edits will be included in the Conformed Set.**
  - a. **DELETE** the following note from plan: “Central office buildings modify exterior PLBG for inflow removal (see sheet C-8).”
8. **DELETE SHEET C-8.**
9. **SHEET U-1: Edits will be included in the Conformed Set.**
  - a. **ADD** the following note at STA 1+10, 1+17, 2+30, and 2+37.  
“PROP. (2) 10” DI 45 DEGREE BENDS AT CROSSING WITH PROPOSED DRAIN AND SEWER. PROP. COVER = 3.00”
10. **SHEET M-2: Edits will be included in the Conformed Set.**
  - a. **DELETE** note in Section A-A “12”-dia PVC SS Inv. El. 15.25” and **REPLACE** with “15”-dia PVC SS Inv. El. 15.20.”
  - b. **DELETE** note in Section A-A “8”-dia PVC SS Inv. El. 16.30” and **REPLACE** with “8”-dia PVC SS Inv. El. 11.89.”
11. **SHEET E-5: Edits will be included in the Conformed Set**
  - a. **ADD** “See Electrical Vault with Sump detail on Sheet GC-9” to the following note in profile “Vault V-1”.
  - b. **DELETE** note in Section B-B “Vault V-1 4’Lx3’W’3’D” and **REPLACE** with “Vault V-1 See Electrical Vault with Sump detail on Sheet GC-9”.
12. **SHEET E-6: Edits will be included in the Conformed Set**
  - a. **ADD** “See Electrical Vault with Sump detail on Sheet GC-9” to the following note in profile “Vault V-2”.
  - b. **DELETE** note in Section B-B “Vault V-2 4’Lx3’W’3’D” and **REPLACE** with “Vault V-2 See Electrical Vault with Sump detail on Sheet GC-9”.
13. **SHEET RG-7: Edits will be included in the Conformed Set.**
  - a. **DELETE** detail STREET LIGHT POLE BASE SECTION. Refer to Specification Section 16135 for requirements.
  - b. **DELETE** detail CONTROLLED STREET LIGHT POLE WIRING DETAIL. Refer to Specification Section 16135.
14. **SHEET R-5: Edits will be included in the Conformed Set.** Full Depth Reconstruction has been modified by this addendum to pavement reclamation. There are some small areas where the roadway will be widened in locations where sidewalk currently exists. For these locations, roadway widening to be paid under applicable full depth reconstruction items.
  - a. **MODIFY** text “FULL DEPTH RECONSTRUCTION” to “PAVEMENT RECLAMATION”.
  - b. **DELETE** text ‘EXIST. CONC. SLAB APPROX. 18”-24” BELOW GRADE, CONC. IS ASSUMED TO BE 8”-12”’ from “TYPICAL SECTION A”.
  - c. **DELETE** text “EXTENT OF CONC. SUB-GRADE UNKOWN” from “TYPICAL SECTION A”.

**15. SHEET R-6: Edits will be included in the Conformed Set.**

- a. **MODIFY** text “FULL DEPTH RECONSTRUCTION” to “PAVEMENT RECLAMATION”.
- b. **MODIFY** text “REMOVE & REPLACE EXIST. 6’ ORNAMENTAL FENCE IN-KIND” to “REMOVE & REPLACE EXIST. 6’ ORNAMENTAL FENCE W/6’ BLACK VINYL COATED CHAIN LINK FENCE”.
- c. **MODIFY** text “TYPICAL SECTION A” to “TYPICAL SECTION B”.
- d. **MODIFY** text “TYPICAL SECTION B” to “TYPICAL SECTION C”.
- e. **ADD SK-ADD2 (attached to this Addendum)**, which includes a hydrant relocation and bollard removal near 52 New Street.
- f. **MODIFY** text ‘EXIST. CONC. SLAB APPROX. 18”-24” BELOW GRADE, CONC. IS ASSUMED TO BE 8”-12”’ to ‘EXIST. CONC. SUB-GRADE APPROX. 10”-18” BELOW GRADE.’ for “TYPICAL SECTION B” and “TYPICAL SECTION C”.
- g. **ADD SK-ADD3 (attached to this Addendum)**, which includes revisions of seeded lawn and planting soil limits near 83 New Street.

**16. SHEET R-7: Edits will be included in the Conformed Set.**

- a. **MODIFY** text “FULL DEPTH RECONSTRUCTION” to “PAVEMENT RECLAMATION”.
- b. **MODIFY** text “REMOVE & REPLACE EXIST. 6’ ORNAMENTAL FENCE IN-KIND” to “REMOVE & REPLACE EXIST. 6’ ORNAMENTAL FENCE W/6’ BLACK VINYL COATED CHAIN LINK FENCE”.
- c. **MODIFY** text “TYPICAL SECTION B” to “TYPICAL SECTION D”.
- d. **MODIFY** text “TYPICAL SECTION C” to “TYPICAL SECTION E”.
- e. **MODIFY** text ‘EXIST. CONC. SLAB APPROX. 18”-24” BELOW GRADE, CONC. IS ASSUMED TO BE 8”-12”’ to ‘EXIST. CONC. SUB-GRADE APPROX. 10”-18” BELOW GRADE.’ for “TYPICAL SECTION D” and “TYPICAL SECTION E”.
- f. **ADD SK-ADD4 (Attached to this Addendum)**, which includes revisions of seeded lawn and planting soil limits as well as vertical granite curb locations near 87 New Street. Quantities have been updated in this Addendum.

**V. MODIFICATIONS TO SPECIFICATIONS**

**1. SECTION 00300 – FORM FOR GENERAL BID**

- g. **DELETE** the section in its entirety and **REPLACE** it with the attached **SECTION 00300ADD1 – FORM FOR GENERAL BID**. Specifically, the following changes have been made:
  - 1) **DELETE** Section H in its entirety and **REPLACE** with:  
“Items 1200.2, 2080.1 through 2095.10, 2210.1, 2210.2, and 2534.1 contain minimum unit prices. The Contractor shall add to this value an adjustment to provide the final unit price bid for the respective item. The final unit price bid shall be the sum of the minimum unit price and the Bidders additional price. Insertion of 0 is allowable. In

- that case, the final unit cost will be the minimum unit cost.”**
- 2) **ADD** Bid Item 1060.2 MWRA Dewatering Discharge Permit Fee with a quantity of **1 Allowance** and amount of **\$20,000**.
  - 3) **ADD** Bid Item 1400.1 Quality Control and Testing with a quantity of **1 Allowance** and amount of **\$20,000**.
  - 4) **MODIFY** Bid Item 2051.2 Disposal of Bituminous Concrete with a quantity of **1500 TON**.
  - 5) **MODIFY** Bid Item 2095.2 OHM - Disposal of Soil - Daily Cover Unlined Landfill (Class B-1) with a quantity of **400 TON**
  - 6) **MODIFY** Bid Item 2095.3 OHM - Disposal of Soil - Daily Cover Lined Landfill (Class B-2) with a quantity of **4900 TON**.
  - 7) **MODIFY** Bid Item 2095.4 OHM - Disposal of Soil - Non-Hazardous Solid Waste Asphalt Batching In-State (Class B-3) with a quantity of **400 TON**.
  - 8) **MODIFY** Bid Item 2095.8 OHM - Disposal of Soil - Treatment of RCRA Characteristically Hazardous Soil to Decharacterize and Dispose of Soil as Non-Hazardous Waste (Class C-1) with a quantity of **1200 TON**.
  - 9) **MODIFY** Bid Item 2210.3 Gravel Subbase with a quantity of **390 CY**.
  - 10) **MODIFY** Bid Item 2210.5 Unclassified Excavation with a quantity of **493 CY**.
  - 11) **MODIFY** Bid Item 2210.6 Roadway Earth Excavation (for Full Depth, Outside Trench Limits) with a quantity of **390 CY**
  - 12) **MODIFY** Bid Item 2252.1 Type 1 – Manhole – Precast 4-Foot Diameter with a quantity of **12 EA**.
  - 13) **MODIFY** Bid Item 2252.8 Manhole – Remove and Replace Existing Frame and Cover with a quantity of **6 EA**.
  - 14) **MODIFY** Bid Item 2500.9 Fine Grading and Compacting Subbase (for Full Depth Construction) to Bid Item 2500.9 Fine Grading and Compacting Subbase.
  - 15) **ADD** Bid Item 2500.10 Rustic Red Optiloc Pavers on 6-in Bituminous Concrete Base (Raised Intersection) with a quantity of **35 SY**.
  - 16) **ADD** Bid Item 2500.11 Pavement Reclamation, Pulverizing, Full Width, 12-in Depth with a quantity of **5200 SY**.
  - 17) **MODIFY** Bid Item 2524.4 Remove and Reset/Relocate Granite Curb (Straight and Curved) with a quantity of **1404 LF**.
  - 18) **MODIFY** Bid Item 2524.5 Remove and Discard Granite Curb with a quantity of **738 LF**.
  - 19) **MODIFY** Bid Item 2524.6 New Granite Curb Type VA4 (Straight and Curved) with a quantity of **1653 LF**.
  - 20) **MODIFY** Bid Item 2524.7 New Granite Curb Type VA4 Transition (Straight and Curved) with a quantity of **440 LF**.
  - 21) **ADD** Bid Item 2524.8 New Granite Curb Type VA3 For Raised Crosswalks with a quantity of **250 LF**.
  - 22) **MODIFY** Bid Item 2524.8 Granite Curb 2-ft Curb Corner to item 2524.9 Granite Curb 2-ft Curb Corner.
  - 23) **MODIFY** Bid Item 2524.9 Cast-in-Place Detectable Tile to item 2524.10

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- Cast-in-Place Detectable Tile.
- 24) **MODIFY** Bid Item 2524.10 Granite Cobblestone Pavers to item 2524.11 Granite Cobblestone Pavers.
  - 25) **MODIFY** Bid Item 2524.11 2½-inch Hot Mix Asphalt Sidewalk (Bike Path) to item 2524.12 2½-inch Hot Mix Asphalt Sidewalk (Bike Path).
  - 26) **MODIFY** Bid Item 2524.12 New Concrete Curb (Straight and Curved) to item 2524.13 New Concrete Curb (Straight and Curved).
  - 27) **MODIFY** Bid Item 2524.13 New Bituminous Curb to item 2524.14 New Bituminous Curb.
  - 28) **MODIFY** Bid Item 2577.4 High Friction Surface Treatment with a quantity of **419 SF**.
  - 29) **MODIFY** Bid Item 2604.1 Catch Basin – Type 1 Single Grate (4-ft Diameter) with a quantity of **14 EA**.
  - 30) **MODIFY** Bid Item 2604.3 Catch Basin – Type 5 Single Grate Direct Inlet with a quantity of **3 EA**.
  - 31) **MODIFY** Bid Item 2604.5 Remove and Replace Existing Frame and Grate with a quantity of **3 EA**.
  - 32) **ADD** Bid Item 2604.7 Catch Basin – Type 2 Double Grate (5-ft Diameter) with a quantity of **2 EA**.
  - 33) **MODIFY** Bid Item 2609.1 Pipe – RCP (Gravity) 12-inch with quantity of **215 LF**.
  - 34) **MODIFY** Bid Item 2615.2 Pipe – DI (Gravity) 12-inch with quantity of **125 LF**.
  - 35) **MODIFY** Bid Item 2622.3 Pipe – PVC (Gravity) 12-inch with quantity of **518 LF**.
  - 36) **MODIFY** Bid Item 2622.5 Reconnect, Repair, or Relocate Existing Sanitary Sewer and Storm Drain Laterals to Bid Item 2622.6 Reconnect, Repair, or Relocate Existing Sanitary Sewer and Storm Drain Laterals
  - 37) **MODIFY** Bid Item 2622.6 Dig and Replace Spot Repair 24” PVC Drain over 12” PVC Sanitary Sewer to Bid Item 2622.7 Dig and Replace Spot Repair 24” PVC Drain over 12” PVC Sanitary Sewer
  - 38) **MODIFY** Bid Item 2630.2 Pipe – DI (Water) 6-inch with a quantity of **30 LF**.
  - 39) **MODIFY** Bid Item 2630.2 Pipe – DI (Water) 8-inch to Bid Item 2630.3 Pipe- DI (Water) 8-inch
  - 40) **MODIFY** Bid Item 2640.2 6-in Gate Valve and Gate Box with a quantity of **3 EA**.
  - 41) **MODIFY** Bid Item 2645.1 New Hydrant with a quantity of **3 EA**.
  - 42) **MODIFY** Bid Item 2645.2 Remove and Dispose Existing Hydrant with a quantity of **3 EA**.
  - 43) **ADD** Bid Item 2760.1 Cleaning of Stormwater Storage Tank with a quantity of **1 LS**.
  - 44) **MODIFY** Bid Item 2900.1 Seeded Lawn with a quantity of **349 SY**.
  - 45) **MODIFY** Bid Item 2901.1 Planting Soils with a quantity of **105 CY**.
  - 46) **DELETE** Bid Item 2910.1 Street Tree
  - 47) **MODIFY** Bid Item 2950.2 Asphalt Back of Sidewalk Restoration with a quantity of **355 SY**.

- 48) **MODIFY** Bid Item 2980.4 Ornamental Fence to item 2980.4 Remove Ornamental Fence and Replace with 6-ft Black Vinyl Coated Chain Link Fence with no quantity change.
- 49) **MODIFY** Bid Item 2980.7 Remove Bollard with a quantity of **8 EA**
- 50) **DELETE** Bid Item 2980.9 Relocate Existing Street Light
- 51) **DELETE** Item 3315.1 Private Cap Exterior Elbows.
- 52) **DELETE** Item 7631.1 Private Inflow Removal at Fresh Pond Mall.
- 53) **ADD** Bid Item 16135.1 Electrical Conduit (Single) Concrete Encased (Lighting) with a quantity of **650 LF**.
- 54) **ADD** Bid Item 16135.2 Electrical Handhole (Lighting) with a quantity of **6 EA**.
- 55) **ADD** Bid Item 16135.3 Light Standard Foundation (Standard Precast) with a quantity of **6 EA**.
- 56) **ADD** Bid tem 16135.4 Ground Rod 8-ft Long with a quantity of **6 EA**.
- 57) **ADD** Bid Item 16135.5 Wire Type 7 No. 10 General Purpose with a quantity of **120 LF**.
- 58) **ADD** Bid Item 16435.6 Wire Type 7 No. 4 General Purpose with a quantity of **60LF**.
- 59) **ADD** Bid Item 16435.7 Wire Type 7 No. 1/0 General Purpose with a quantity of **650 LF**.
- 60) **ADD** Bid Item 16135.8 Remove and Relocate Existing Street Light with a quantity of **6 EA**.
- 61) **DELETE** Section I.3 in its entirety and **REPLACE** with:  
“provide an Insurance certificate specifying the City of Cambridge; Massachusetts Water Resources Authority; Kleinfelder; MWH Americas, Inc; and the owners of private properties requiring right-of-entries (ROEs) listed in Appendix G as **Additional Insured**, complying with the Insurance requirements set forth herein in the General Terms and Conditions of the contract, Article 8, or as otherwise required.”

17. **SECTION 00560 – NOTICE TO PROCEED**

- a. **DELETE** paragraph stating “You are hereby notified to commence the Work in accordance with the Agreement dated \_\_\_\_\_, 20\_\_\_\_, on or before \_\_\_\_\_, 20\_\_\_\_, and you are to complete all work by October 31, 2015. The date of completion of all work is therefore, October 31, 2015” and **REPLACE** with:  
“You are hereby notified to commence the Work in accordance with the Agreement dated \_\_\_\_\_, 20\_\_\_\_, on or before \_\_\_\_\_, 20\_\_\_\_, and you are to complete all work for the Milestone 1 – Concord Lane and New Street Sewer Pump Station Subsurface Infrastructure Work by September 19, 2015. All work for Milestone 2 – Concord Lane and New Street Sewer Pump Station Surface Work shall be completed by November 13, 2015. The date of completion of all work is therefore November 13, 2015.”

18. **SECTION 00825 – SUPPLEMENTAL GENERAL CONDITIONS**

- a. **DELETE** text “inflow removal” in Article 8.1 and Article 9.1 and **REPLACE** with text “private property”.

19. **SECTION 00825A – SPECIAL CONDITIONS**

- a. **DELETE** text “Endicott Street Area Drainage Improvements Project – Contract No. 1” in Article 48 and **REPLACE** with “Concord Lane Sewer Separation and New Street Sewer and Pump Station Improvements Project.”

20. **SECTION 01060 – PERMITS AND REGULATORY REQUIREMENTS**

- a. **ADD** the following bid item to Part 4:  
**“Item 1060.2 – MWRA Dewatering Discharge Permit Fee**

**METHOD OF MEASUREMENT:**

Payment will be made against the allowance based on invoices submitted by the General Contractor on a monthly basis. Labor, professional services, technician, and other invoices shall include a breakdown of hours, labor rates, direct expenses all sub-consultant and contractor mark-ups, material costs, shipping, taxes and all other costs included in the request. Incomplete or incorrect invoices will not be approved.

The General Contractor is allowed up to a 5% Mark-up on labor, professional service, technician, and other costs related to testing.

**BASIS OF PAYMENT:**

The allowance for this item shall be reimbursement to the General Contractor to pay MWRA Dewatering Discharge Permit Fee.”

21. **SECTION 01390 – PRE CONSTRUCTION SURVEY**

- a. **DELETE** Section 1.1.B in its entirety and **REPLACE** with:  
“Perform post-construction survey at properties where a damage claim has been reported. Assume 10 properties require post-construction survey.”

22. **SECTION 01400 – QUALITY CONTROL**

- a. **ADD** to PART 1 under Section 1.2.B:  
“Section 02210 – Earth Excavation, Backfill, Fill, and Grading”

23. **SECTION 02080 – SOIL AND WASTE MANAGEMENT**

- a. **ADD** to PART 1 under Section 1.5.D.23:  
“MassDEP Similar Soils Provision Guidance (2014)”
- b. **DELETE** Section 1.8.F in its entirety and **REPLACE** with:  
“Dust, Vapor and Odor Control (DVOC): The DVOC program shall include measures to control objectionable dust, vapors including methane and hydrogen sulfide, and chemical or natural odors originating from the work area or soil/fill staging area. The DVOC Plan shall describe procedures to minimize the creation of dust, and the control of objectionable vapors and odors originating from the site. At a minimum, the DVOC program shall include air monitoring as specified in paragraph 3.6. The Contractor shall have materials on hand to implement control measures.”
- c. **DELETE** Section 3.6.A, 3.6.B, 3.6.C in its entirety and **REPLACE** with:

“A. The Contractor’s Site Health and Safety Officer shall keep accurate documentation of all air monitoring in accordance with the Contractor’s Health and Safety Plan. Air monitoring data shall be made available to the Engineer or Owner upon request.

B. During excavation and construction at depths of greater than 2 feet below ground surface, the Contractor shall monitor the air quality at and surrounding the areas where construction activities involve soil handling such as excavation, re-location, staging, loading or grading of soil/waste materials. Air monitoring shall involve appropriate techniques, capable of providing real-time indications of air contaminants to protect on-site personnel and the local population. If there are indications of contamination, the frequency of air monitoring shall be determined by the Contractor’s Industrial Hygienist or competent environmental health professional. The Contractor’s Site Health and Safety Officer and Superintendent shall be responsible for assuring that monitoring is conducted in an appropriate manner by personnel trained to operate the air monitoring equipment, record measurements, and compare to action limits established by the Contractor’s Health and Safety Plan, and that work practices, engineering controls and/or Personal Protective Equipment are proper for the conditions.

C. The air monitoring program is to be designed to protect public health and the environment from the potential generation of dust and odors and contaminant release during work. At a minimum, the air monitoring shall include daily monitoring and documentation of one upwind, and two downwind conditions during periods of activity on the site and when there is a potential for dust being generated on the site. The air monitoring information including air monitoring in the vicinity of all site activities shall also be utilized for establishing levels of personal protection measures in the Contractor’s Site Specific Health and Safety Plan. The Contractor shall submit his/her air quality monitoring program for review prior to commencement of site activities. At the direction of the Engineer, air monitoring may be limited to visual and odor monitoring; instrument monitoring may be required at any time by the Engineer, based on the results of visual and odor monitoring.”

24. **SECTION 02466 – HELICAL PILES**

- a. **DELETE** Section 1.1.B in its entirety and **REPLACE** with:

“The Contractor shall install three (3)-Helical Piles with a concrete pile cap below the following proposed structures: DMH-6 at Sta. 3+08, DMH-8 at Sta.5+13, DMH-9 at Sta.5+95, SMH-6 at Sta.5+93, DMH-11 at Sta.11+80, and DMH-12 at Sta.12+05. Installation of three (3)-Helical Piles with a concrete pile cap may be required below DMH-10 pending observations in excavation for CB-5.”

25. **SECTION 02500 – PAVING AND SURFACING**

- a. **MODIFY** item 02500.10 Roadway Pavers to item 02500.10 Rustic Red Optiloc Pavers on 6-in Bituminous Concrete Base (Raised Intersection).
- b. **MODIFY** Bid Item 2500.9 Fine Grading and Compacting Subbase (for Full Depth Construction) to Bid Item 2500.9 Fine Grading and Compacting Subbase.
- c. **ADD** item 02500.11 Pavement Reclamation, Pulverizing, Full Width, 12-in Depth

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- d. **ADD** the following to Part 1 after section 1.3.A.2:  
“3. Manufacturer product data and specifications for Rustic Red Optiloc Pavers.”

- e. **ADD** the following to Part 2 after section 2.1.E:  
“F. Raised Intersection Pavers

1. Raised Intersection Pavers shall be a full dimension paver conforming to the quality standards, size and color range of: "Rustic Red Optiloc" brick paver as manufactured by Unilock, 35 Commerce Drive, Uxbridge, MA, or an equivalent approved by the Engineer. Pavers shall be L Shaped and the size shall be 10-1/4" Outside Length by 5" Inside Length by 5" Wide by 3-1/8" D. Brick shall meet or exceed the requirements of ASTM C936, with average water absorption of not more than 5% with the five hour boil and an average compressive strength of 8,000 PSI (55Mpa) or more. Brick shall pass a minimum of 100 freeze thaw cycles.”

- f. **ADD** the following to Part 3 after section 3.9:  
“3.10 RAISED INTERSECTION

A. Hot mix asphalt base shall be installed to a depth of 6” at raised intersections and placed in accordance with the MHD Standard Specifications for hot mix asphalt.

a. Hot mix asphalt surface shall be rolled to remove irregularities prior to installing setting bed.

B. A 3/4” sand-asphalt setting bed shall be installed on the asphalt base. Wet saw is required for cutting of bricks and filling in pieces where needed. No other method will be acceptable.

C. After all the pavers are in place, sand free of coarse aggregates shall be swept into the voids around the pavers.

3.11 PAVEMENT RECLAMATION/PULVERIZING

A. Temporary trench patch and existing road pavement shall be scarified and mixed with equal amount of the gravel base existing in the roadway foundation. Pulverization will be by means of a traveling pulvi-miller or equivalent machine capable of ripping through existing asphalt at depths up to 12” with one pass. The machine shall be self-propelled and be equipped with an adjustable grading blade, thus leaving its path generally smooth for traffic equipment. Road planers or cold milling machines, which are designed to mill or shred the existing hot mix asphalt pavement rather than to crush or fracture it, are not considered capable of achieving specification gradation. The required and necessary scraping action of the milling will increase the percentage of fine aggregate. Existing hot mix asphalt and gravel base must be ripped and mixed so as to form a homogeneous mass of uniformly processed base material, which will bond together when compacted.”

- g. **ADD** the following bid item to Part 4:  
“Item 2500.11 --- Pavement Reclamation, Pulverizing, Full Width, 12-In Depth

**METHOD OF MEASUREMENT:**

Measurement for the Pavement Reclamation/Pulverizing, Full Width, 12-In Depth will be based on the square yards of asphalt pavement reclaimed/pulverized to a depth of 12-inches, as measured by the Engineer to the payment limits described in the Contract Drawings and Specifications.

**BASIS OF PAYMENT:**

Payment for Pavement Reclamation/Pulverizing, Full Width, 12-In Depth shall be based on the unit price bid for this item in the proposal. Under the Unit Price for this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals required to reclaim/pulverize existing asphalt pavement, to a depth of 12-inches, to the pay limits indicated on the Drawings and as specified. The work includes removing, hauling, stockpiling, and disposing or reusing of pulverized/reclaimed asphalt material; sweeping after the pulverizing/reclaim operation; removal of asphalt from around existing structures and castings; providing transitions at the limits of the pulverizing/reclaiming; providing and maintaining temporary hot mix asphalt aprons at transitions and castings until final paving; maintaining the reclaimed/pulverized surface until final paving; grading of reclaimed surface prior to asphalt placement; and all incidental work not included for payment elsewhere.”

**26. SECTION 02520 – FLEXIBLE POROUS PAVING**

- a. **MODIFY** Bid Item 02524.8 New Granite Curb Type VA3 for Back of Sidewalks and Raised Crosswalks to Item 02524.8 New Granite Curb Type VA3 for Raised Crosswalks.

**27. SECTION 02524 – CURBS, WALKS AND DRIVEWAYS**

- a. **DELETE** METHOD OF MEASUREMENT and BASIS OF PAYMENT for Item 2520.1 – Flexible Porous Paving (Proprietary) in its entirety and **REPLACE** with: METHOD OF MEASUREMENT:

Measurement for Flexible Porous Paving shall be based on the actual number of square yards of Flexible Porous Paving placed, complete within the limits shown on the Drawings or as directed by the Owner’s Representative and as measured by the Owner’s Representative. Placement of Flexible Porous Paving to excess thicknesses and outside the limits defined in the Drawings shall be at no additional cost to the Owner.

**BASIS OF PAYMENT:**

Under the Unit Price for Flexible Porous Paving, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals including crushed stone subbase required to **excavate and** install Flexible Porous Paving to the depth and width indicated, complete, as shown in the Drawings or at the direction of the Owner’s Representative.”

28. **SECTION 02604 – CATCH BASINS**

- a. **ADD** Bid Item 2604.7 Catch Basin – Type 2 Double Grate (5-ft Diameter).

**BASIS OF PAYMENT/INCLUSIONS:**

Under the Unit Price bid for this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals required for the complete procurement, installation, cleaning, and leakage testing/inspection of precast concrete catch basin complete as indicated on the Drawings and Specifications, or as directed by the Owner or Engineer. This work shall include furnishing, installing, and/or performing the following: pavement or sidewalk sawcutting; removal of brick, concrete, or bituminous sidewalk; excavation of bituminous concrete roadway; excavation; transporting material to/from soil staging area; temporary excavation support consisting of trench boxes, or timber or steel sheeting left in place and cut off below grade as per the Contract Specifications; removal of groundwater from the trench; handling groundwater recharged back to the soil; filter fabric as required; bedding, including compaction; precast concrete catch basin sections with frames, grates, masonry chimney, appurtenances, pipe sleeve (if applicable); field coring of pipe connections; furnishing, placing and compacting suitable backfill soil; grade and compact gravel pavement sub-base; compaction testing; and all appurtenances and incidental work.

**METHOD OF MEASUREMENT:**

Payment for Precast Concrete Catch Basins shall be based on the Unit Price bid in the proposal. Measurement for payment shall be based on the actual number of complete and functional catch basins as shown on the Contract Drawings or as directed by the Owner or Engineer. Assume catch basins to have a vertical depth of 12 feet as measured from inside bottom of base section to finished grade.

Catch basins installed but not successfully tested and accepted shall be paid for at a maximum of 95 percent of the unit prices bid under this item. The remaining 5 percent shall be paid upon receipt of successful test results by the Engineer. All reductions in payment due to unsuccessful testing shall be made prior to normal retainage.

**SPECIAL NOTES ON EXCLUSIONS:**

The following item(s) are not included for payment under this item and are included for payment elsewhere: disposal of bituminous concrete and construction debris; treatment of groundwater discharged under the DEP Dewatering Permit; procurement, installation, and compaction of CDF.

29. **SECTION 02760 – PIPELINE CLEANING AND INTERNAL INSPECTION**

- a. **ADD** the following bid item to Part 4:

Item 2760.1 – Cleaning of Stormwater Storage Tank

**METHOD OF MEASUREMENT:**

Payment for Cleaning of Stormwater Storage Tank shall be based on the Lump Sum Price bid in the proposal. Measurement for payment for Cleaning of Stormwater Pump Station will be on a percent of the Lump Sum bid calculated by dividing the elapsed time to date by the contractual construction time limit as approved by the Engineer.

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**BASIS OF PAYMENT/INCLUSIONS:**

Under the Unit Price bid for this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals required for Cleaning of Stormwater Pump Station complete as indicated on the Drawings and Specifications, or as directed by the Owner or Engineer. This work shall include furnishing, installing, and/or performing the following: required submittals and work plans; securing a temporary dump site; storm and sewer flow handling including sand bagging, temporary plugs and bulkheads, dewatering and flow bypassing; making arrangements for a water source; loosening, cleaning, and extracting deposits throughout the structure; transporting material to/from dump site; end-of-day surface cleaning around access manhole; repair of any damage caused by the Contractor; restoration of surface; and incidental work not indicated for payment elsewhere.

**SPECIAL NOTES ON EXCLUSIONS:**

The following item(s) are not included for payment under this item and are included for payment elsewhere: characterizing and disposing removed material to be paid under appropriate OHM bid item; and pre- and post-television inspection.

**30. SECTION 02900 – LANDSCAPING**

- a. **MODIFY** Bid Item from 2900.4 Seeded Lawn to Bid Item 2900.1 Seeded Lawn

**31. SECTION 02910 – STREET TREE**

- a. **DELETE** Bid Item 2910.1 Street Tree from this Specification Section and its measurement and payment. Street Trees have been deleted from the Contract Documents by this Addendum.

**32. SECTION 02980 – SITE IMPROVEMENTS**

- a. **MODIFY** Bid Item 2980.4 Ornamental Fence to Bid Item 02980.4 Remove Ornamental Fence and Replace with 6-ft Black Vinyl Coated Chain Link Fence.
- b. **DELETE** Bid Item 2980.9 Relocate Existing Street Light. These requirements have been moved to Specification Section 16135 - ROADWAY LIGHTING INFRASTRUCTURE.

- c. **DELETE the following item 2.12 A**

“Ornamental fence shall be Aberdeen style as manufactured by Iron World, 9390 Davis Avenue, Howard County, Maryland, 20723, phone 866/310-2747, or approved equivalent product. Aberdeen style ornamental fence panels to be 4’ high, 3 rail, flat top with 1/16” gauge pickets. Terminal post to be 3” square, 12 gauge, set in 3,000 psi concrete 42” in the ground. Line posts to be 2-1/2” square, 14 gauge, set in 3,000 psi concrete 36” in the ground. Color shall be black, as approved by the Engineer.”

- d. **DELETE METHOD OF MEASUREMENT and BASIS OF PAYMENT** for Bid Item 2980.10 – Remove and Replace Speed Bump in its entirety and **REPLACE** with:

**“METHOD OF MEASUREMENT:**

Measurement for Payment shall be based on the actual number of linear feet removed and replaced as indicated in the Contract Documents or as required by the

Engineer.

**BASIS OF PAYMENT:**

Payment shall be based on the unit price bid per linear foot of removal and replacement of speed bumps. The unit price shall constitute full compensation for complete compliance with requirements of this item, including all labor, equipment, materials, tools, incidental work and construction methods. No separate measurement and payment shall be made for excavation, backfill, and base materials.”

**33. SECTION 03315 – GUTTERS AND DOWNSPOUTS**

- a. **DELETE** Bid Item 3315.1 Private Cap Exterior Elbows from Part 4 and replace with “Part 4 – Compensation (Not Used)”.
- b. **DELETE** Part 4 and replace with “Part 4 – Compensation (Not Used)”.

**34. SECTION 07631 – GUTTERS AND DOWNSPOUTS**

- a. **DELETE** this section in its entirety.

**35. SECTION 15252 – FLAP GATES**

- a. **ADD** the following to Part 4, Basis for Payment after “support;”: “modifying brick manhole invert as necessary for mounting;”.

**36. SECTION 16111 – UNDERGROUND RACEWAY SYSTEMS**

- a. **ADD** the following to Part 1.2: “Section 03300 – Concrete”, “Section 03315 – Grout”, “Section 03410 – Plant-Precast Structural Concrete.”
- b. **DELETE** Part 2.1.A and **REPLACE** with “Manholes, vaults, handholes, pullboxes and fittings which are dedicated to the underground raceway system shall comply with the requirements of this section.”
- c. **DELETE** Part 1.3.A.1.a and **REPLACE** with “Complete catalog cuts of all raceways, fittings, pullboxes, manholes, vaults, handholes, marked where applicable to show proposed materials and finishes.”
- d. **ADD** the following as Part 2.4:
  - “2.4 VAULTS
  - A. Vaults shall be cast in place with construction and size as indicated. Precast vaults of similar size and loading may be accepted, subject to approval by the Engineer.
    - 1. Covers shall be traffic type, H-20 loading, except as indicated otherwise. Vault covers shall be identified as "Electric" by raised letters cast into the covers. Vault frames and covers shall be Neenah Foundry No. R-1755-G or equal.
    - 2. Vaults shall have frost-proof and water-tight grey iron frames and covers with solid lids and inner lids with 28-inch clear openings. All covers and lids shall be bolted to cast-in-place steel frames with corrosion resistant hardware. Frames shall be factory-primed; covers shall be cast-iron and shall have pick-holes.
    - 3. The concrete envelope shall have a compression strength of 3,000 psi minimum.
  - B. Vaults shall be equipped with pulling-in irons opposite and below each

ductway entrance.

C. PVC ductbank conduits shall be provided with end bells. Brackets, Unistrut Cat. No. P2515 or equal and 60-inch concrete inserts, Unistrut Cat. NO. P3261 or equal, shall be provided in vaults as required for racking wiring through vaults.

D. Vaults shall be 4' X 3' X 3', including pull wire blocks and designed for H20 traffic loading. Vaults shall have a cast-in-place sump with finished clear dimensions of 1' X 1.5' X 1.5'.

E. Precast vaults shall be Brooks Mack, Quikset, U.S. Precast, or equal."

- e. **DELETE** the first sentence of Part 3.1.A and **REPLACE** with "Underground raceways shall be installed between manholes, vaults, handholes and pullboxes as indicated."
- f. **DELETE** Part 3.1.E and **REPLACE** with "Handholes, vaults and manholes shall be furnished and located as required by field conditions and at intervals not to exceed 200 feet for straight runs. The Contractor shall avoid locating manholes, vaults and handholes in roadways where possible."
- g. **DELETE** Part 3.2.B and **REPLACE** with "Duct entrances shall be grouted smooth; ducts shall be terminated with flush end bells. Sections of pre-fabricated manholes, vaults and pullboxes shall be assembled with waterproof mastic and shall be set on a 6 inch bed of gravel as recommended by the manufacturer or as required by field conditions."
- h. **DELETE** Part 3.2.C and **REPLACE** with "Ductbank penetration through walls of manholes, vaults, pullboxes, and building walls below grade shall be watertight."

**37. ADD SECTION 16135 – ROADWAY LIGHTING INFRASTRUCTURE. This Section is attached in this Addendum in its entirety and relates to work required for conduit installation and street light pole relocation on New Street.**

- a. **ADD** bid item 16135.1 Electrical Conduit (Single) Concrete Encased (Lighting).
- b. **ADD** bid item 16135.2 Electrical Handhole (Lighting).
- c. **ADD** bid item 16135.3 Light Standard Foundation (Standard Precast).
- d. **ADD** bid item 16135.4 Ground Rod 8-ft Long.
- e. **ADD** bid item 16135.5 Wire Type 7 No. 10 General.
- f. **ADD** bid item 16435.6 Wire Type 7 No. 4 General Purpose.
- g. **ADD** bid item 16435.7 Wire Type 7 No. 1/0 General Purpose.
- h. **ADD** bid item 16135.8 Remove and Relocate Existing Street Light.

**2. APPENDIX A– OIL AND HAZARDOUS MATERIAL FINDINGS, SOIL MANAGEMENT RECOMMENDATIONS**

- a. **MODIFY** section 1.8 F on page to:  
Page 6. References to Table 3 should be changed to Table 2.
- b. **MODIFY** Table 1. Sample ENV3 0.5-8: TCLP lead concentration result should be changed from NT to .0547. **Corrected table is attached.**
- c. **ADD** Table 2.(**attached**) Groundwater data  
Appendix B: Analytical package 14K0452 should be moved to Appendix A
- d. The following changes should be made to the New Street Environmental Summary Memo dated 12/5/14:  
**MODIFY** Figure 3: to the **attached "Figure 3 rev"**

**Addendum No. 1**

CONCORD LANE SEWER SEPARATION AND NEW STREET SEWER AND PUMP STATION IMPROVEMENTS PROJECT

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**DATE:** December 18, 2014

**ATTENDEES:** See attached sign-in sheet

**RECORDED BY:** Chris Eastman (MWH)

**SUBJECT:** Concord Lane and New Street Sewer and Pump Station Improvements Project- Pre-Bid Meeting

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On Thursday, December 18, 2014, a Pre-Bid meeting was held at the City of Cambridge Department of Public Works (DPW) building at 147 Hampshire Street at 11:00 am. This memorandum documents the items discussed and question and answers that came out of the meeting. In case of discrepancy between these minutes and the Contract Specifications/Drawings/Addenda, the specifications/drawings and addenda shall take precedence. **This memorandum is provided for information only and is not part of the contract documents.**

The following items were discussed:

1. Christine Clancy (Kleinfelder) provided a brief overview of the project and CAM 004 sewer separation program. A round of introductions of all persons in attendance took place and a sign in sheet was distributed.
2. Christine Clancy continued by mentioning there is an MWRA court-ordered date to complete all sewer and storm drain work by December 31, 2015, which includes the subsurface work related to the Concord Lane and New Street project. A map indicating the location of the currently ongoing Huron A, Huron B, and Concord Ave construction projects was presented.
3. Bid Opening is scheduled for Thursday, 1/15/15, at 2:00 PM at Cambridge City Hall, Purchasing Department (Room 303).
4. The project schedule and milestones were reviewed. The City anticipates issuing a Notice to Proceed in February 2015. The Milestone requirements are described in detail in the Specification Sections 00020 – Invitation to Bid and 01010- Summary of Work.
  - a. Anticipated NTP, February 2015
  - b. Milestone 1 (Subsurface Infrastructure Work) to be completed by September 19, 2015.
  - c. Milestone 2 (Surface Work) to be completed by November 13, 2015.
5. A completed bid submittal (as detailed in Specification Section 00100 – Information for Bidders) to include:
  - a. A completed Form for General Bid (City of Cambridge form);
  - b. A Bid deposit;

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- c. MBE Forms 1 and 2 or Forms 3 and 4 (City of Cambridge form);
  - d. Notarized Statement of Bidder's Qualifications (City of Cambridge form);
  - e. General Contractor's Certification Form;
  - f. Sub-Bidders Certification;
  - g. Projected Workforce Certification (City of Cambridge form);
  - h. CREP General Contractor Certification Form;
  - i. CREP Subcontractor Certification Form;
  - j. Cori Compliance Form (City of Cambridge form);
  - k. OSHA General Contractor Certification Form;
  - l. OSHA Sub-Bidders Certification Form;
  - m. Americans with Disabilities Act;
  - n. Massachusetts Diesel Retrofit Program Statement of Intent to Comply;
  - o. Schedule of Participation for SRF Construction Form (EEO-DEP-190C); and
  - p. Letter(s) of Intent for SRF Construction Form (EEO-DEP-191C).
6. The Basis of Award is indicated in Specification Section 00300 – General Bid Form and will be awarded to the lowest responsible and eligible bidder at the sole discretion of the City of Cambridge.
  7. Section 00312- Statement of Qualifications was reviewed. Contractor to provide relevant project examples that apply to the requirements.
  8. General Description of Proposed Work
    - a. Concord Lane
      - i. Chris Eastman (MWH) gave a brief description of the work for Concord Lane. Specific construction related considerations were noted, including the presence of organic materials along Concord Lane and associated support of excavation requirements located in Specification Section 02160.
    - b. New Street Pump Station
      - i. Chris Eastman continued and gave a brief description of the work for New Street. Specific mention of the presence of explosive gases, likely landfill gases, in the area of work at New Street was also noted. Relevant Specification Sections of 01108, 02080 and 02095 were referenced.
    - c. New Street Surface Restoration
      - i. Christine Clancy gave a brief description of the surface improvements proposed on New Street between Concord Ave and Concord Lane (approximately 1500 LF). The current bid documents include proposed a surface layout design (curb alignment, raised crosswalk locations, materials, pavement markings, full depth construction). Grading plans will be made available during construction.

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9. Soil management requirements are outlined in Specification Sections 02080 – Soil and Waste Management and 02095- Transportation and Disposal of Soil and Fill. The following items were discussed:
- a. The Contractor is responsible for obtaining and maintaining staging and stockpile areas.
  - b. Contractor to provide timely coordination of disposal facility signoff following shipment
  - c. Review Laboratory Data requirements (notify Engineer when sampling and provide split samples to the Engineer).
  - d. There is an expectation of separating trucks for hot mix asphalt and soil in order to minimize risk of soil becoming contaminated from hot mix asphalt.
  - e. Soil shall be reused as backfill in the trench within 100 feet of where it came from if geotechnically suitable.
  - f. For off-site disposal, Contractor may use Kleinfelder sample data for soil disposal characterization but will likely need to collect more data. Contractor shall notify Kleinfelder’s LSP prior to sampling and provide split samples to Kleinfelder for observation.
  - g. Contractor shall stabilize soil in-situ, if TCLP lead or high pH is encountered, prior to excavation. Soil shall not be transported from the area of excavation if it is has the Toxicity Characteristic.
  - h. Groundwater in the New Street area and existing pump station effluent has been observed to have discoloration, suspended iron floc accumulation, and oil sheens. Groundwater in the pump station area is impacted by Trichloroethene and Vinyl Chloride. An MWRA or NPDES RGP permit prepared by the Contractor will be required for disposal of groundwater from both streets in the sewer or drain in the event that groundwater cannot be re infiltrated within the area of excavation.
  - i. Contractor’s Health and Safety Plan shall include monitoring for explosive conditions and volatile organic compounds as well as dust. Explosive gases, likely landfill gas, were detected at greater than 10% Lower Explosive limit in catch basins adjacent to existing Pump Station and in New Street alignment
  - j. Contractor shall conduct gas/vapor/dust monitoring during all trench excavation activities. Work will be performed as project-wide URAM with URAM plans and reports prepared by City’s LSP. Contractor shall comply with URAM requirements.
10. Specification Section 01063 – Sequencing of Work details certain sequencing requirements in regards to the project and coordination with the ongoing and adjacent Huron A, B, and Concord Projects. Here are a couple sequencing requirements to highlight:
- a. Work within Concord Ave and directly adjacent to Concord Ave on both New Street and Concord Lane are required to be completed at night (9 PM- 5 AM).
  - b. Force main work within the easement at 26 New Street is required to be completed on a Saturday(s) between the hours of 7:00 AM and 4:00 PM.

11. The following allowance items are included in the Contract Documents:

- 
- a. DCR Construction Access Permit
  - b. Quality Control and Testing (note that an amount for this allowance will be added by addendum)

12. Additional Elements of work were discussed:

- a. *Test pits* – Test pits are identified within the Utility “U” Drawings of the Contract Drawings. These are to be performed at the beginning of the construction and are required to determine if relocations are required to be coordinated with the utility companies or if the design needs to be adjusted.
- b. *Utility Coordination* – Refer to Specification Section 01200 – Utility Coordination and Support for utility coordination and support requirements and the “U” Utility Drawings. There are some specific requirements within Section 01200 for working around NSTAR Gas and NSTAR Electric utilities, both overhead and underground.
- c. *Work on Private Property* - The large portion of the work is located within private property. Rights of Entries (ROEs) are to be obtained prior to beginning work on these properties. The City and Design team are currently working with property owners to obtain some of the ROEs and will continue to assist with this effort during construction. Draft and sample ROEs are included in the Appendix G to the Specifications. Contractor shall make note of the ROE for the Work on Fresh Pond Mall property (majority of Concord Lane work). For this ROE, there are specific insurance requirements.

13. Questions and Answers:

**Q1: For odor control requirements, does that pertain to environmentally contaminated soil or also for odors related to organic soil (ex. Peat)?**

A1: The Contractor shall be prepared to control objectionable odors from either contaminated or natural sources such as organic soil or peat, as required in the Dust, Vapor, Odor Control Plan in Specification Section 02080 – Soil and Waste Management.

**Q2: Is grading complete on Concord Lane?**

A2: Grading is complete on Concord Lane, only New Street has grading forthcoming.

**Q3: Can trucks carry both asphalt and soil?**

A3: Trucks carrying asphalt cannot carry soil afterwards without proper cleaning.

**Q4: Is gas/vapor/dust monitoring required in all trenches and how frequently? Also, how is this item paid?**

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A4: The Contractor shall be prepared to provide gas/vapor/dust monitoring at any time and is responsible for determining that safe levels are maintained in accordance with its health and safety plan. Costs for monitoring are considered incidental to soil trenching and soil management and no additional payment will be made for monitoring. The Engineer will use discretion will be used in requiring continuous monitoring if the Contractor it is demonstrated demonstrates that hazardous conditions are not present or expected.

**Q5: How is the MWRA Dewatering Permit Fee paid for?**

A5: Currently, the contract documents are structured so that the MWRA Dewatering Permit Fee is paid for by the Contractor and is considered incidental to the Project. It was discussed at the meeting that an allowance might be considered for this permit fee. This will be addressed through addendum.

**Q6: Since the railroad adjacent to Concord Lane and New St is not active, is railroad insurance still required?**

A6: Yes, railroad insurance is required per the Contract Documents, regardless of status of the adjacent property.

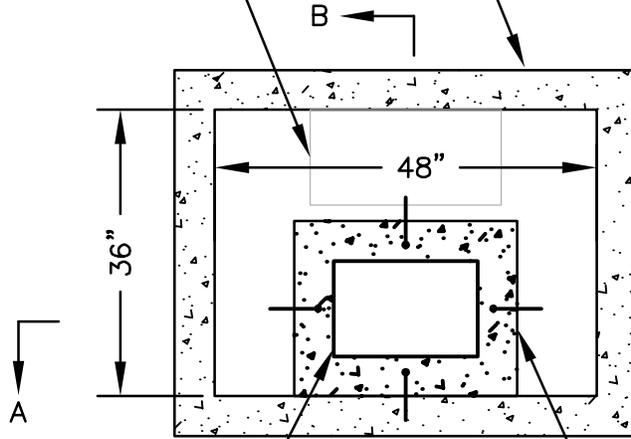
**Q7: Is there any gas main work anticipated in this project area?**

A7: Currently, there is not any gas main work anticipated in the project area. NSTAR Gas recently installed new main on Concord Lane.



PROP. PRECAST CONC. ELECTRICAL VAULT  
 - 5" THICK WALLS AND 5" THICK BASE  
 SEE NOTE 1

PROP. TERMINAL BOX  
 SEE NOTE 1



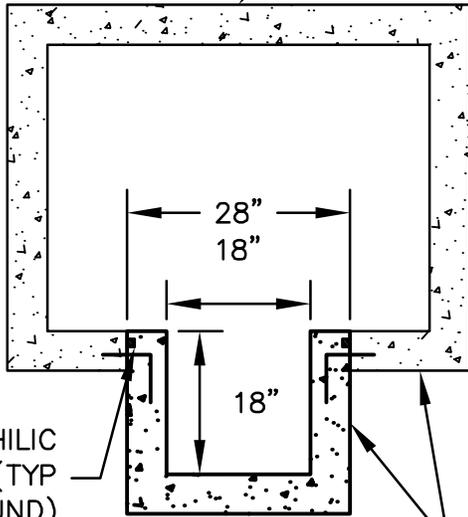
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 INSTALLATION OF PRECAST  
 CONC. ELECTRICAL VAULT

PLAN

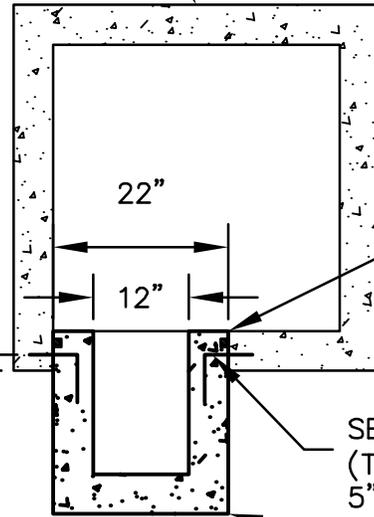
NOTES:

1. REFER TO SHEETS E-5 AND E-6 FOR VAULT LOCATIONS AND EQUIPMENT INFORMATION.
2. FOR FILTER FABRIC USE REQUIREMENTS, SEE "TRENCH DETAIL FOR SEWER, DRAIN AND WATER PIPES", SHEET GC-7. CRUSHED STONE AND BEDDING PER SPECIFICATIONS AND TRENCH DETAIL.
3. DOWEL #4 3" MIN INTO PRECAST STRUCTURE WITH EPOXY, 3" INTO CIP SUMP WITH 90° HOOK END 6" LONG (TYP EACH FACE, 4 TOTAL).

HATCH NOT SHOWN FOR  
 CLARITY, SEE SPECIFICATIONS



SECTION A-A



SECTION B-B

CLEAN AND  
 ROUGHEN  
 FOR BOND  
 (TYP ALL  
 AROUND)

SEE NOTE 3  
 (TYP OF 4)  
 5" THICK WALLS  
 AND 5" THICK  
 BASE

ELECTRICAL VAULT AND SUMP DETAIL

ADDENDUM NO. 1

CAD FILE: C:\pwworkdir\0197286\CONL\_General\Civil\_Details\_CG1-CG11.dwg LAYOUT: ADD1



CITY OF CAMBRIDGE,  
 MASSACHUSETTS

CONCORD LANE AND NEW STREET  
 SEWER AND PUMP STATION  
 IMPROVEMENTS PROJECT

GENERAL CIVIL  
 ELECTRICAL VAULT AND SUMP DETAIL

Sheet No.  
 SK-1-ADD1

Scale

NO SCALE

REVISIONS				
REV	DESCRIPTION	DSN DWN	CHK APP	DATE

**SCALE VERIFICATION**  
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING



IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY



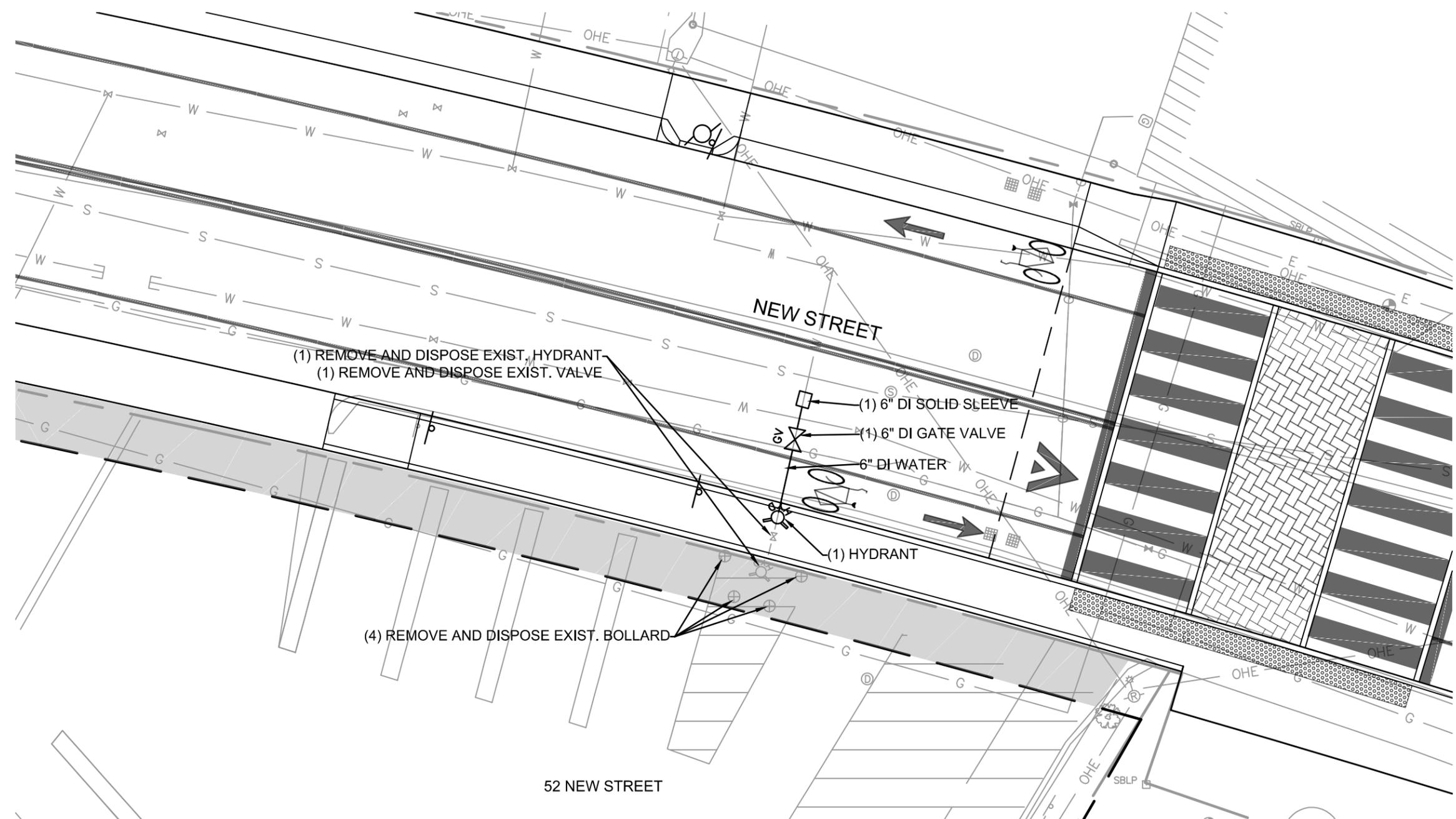
ORIGINAL DRAWING SIZE IS 11 x 17  
**CONCORD LN AND NEW ST SEWER AND PUMP STATION IMPROVEMENTS PROJECT**

HYDRANT RELOCATION AND BOLLARD REMOVAL ON NEW STREET



CITY OF CAMBRIDGE

PROJECT NO.	20130056.009	<b>SK-2-ADD1</b>
ISSUE DATE	01/06/2015	
CURRENT REVISION	0	
DESIGNED BY	GMP	
DRAWN BY	GMP	
CHECKED BY	KJL	
APPROVED BY	CMC	SHEET



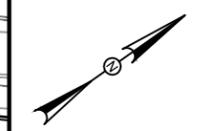
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FILENAME=C:\pwworking\0113170\SK-ADD1.dwg



215 First Street, Suite 320  
 Cambridge, MA 02142  
 Phone: 617-497-7800  
 www.kleinfelder.com

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE



SCALE VERIFICATION  
 THIS BAR IS 1 INCH IN LENGTH  
 ON ORIGINAL DRAWING  
 0 1"  
 IF IT'S NOT 1 INCH ON THIS  
 SHEET ADJUST YOUR  
 SCALES ACCORDINGLY



SCALE: 1" = 30' SCALE IN FEET

ORIGINAL DRAWING SIZE IS 11 x 17

CONCORD LN AND NEW ST SEWER AND  
 PUMP STATION IMPROVEMENTS PROJECT

LOAM AND SEED

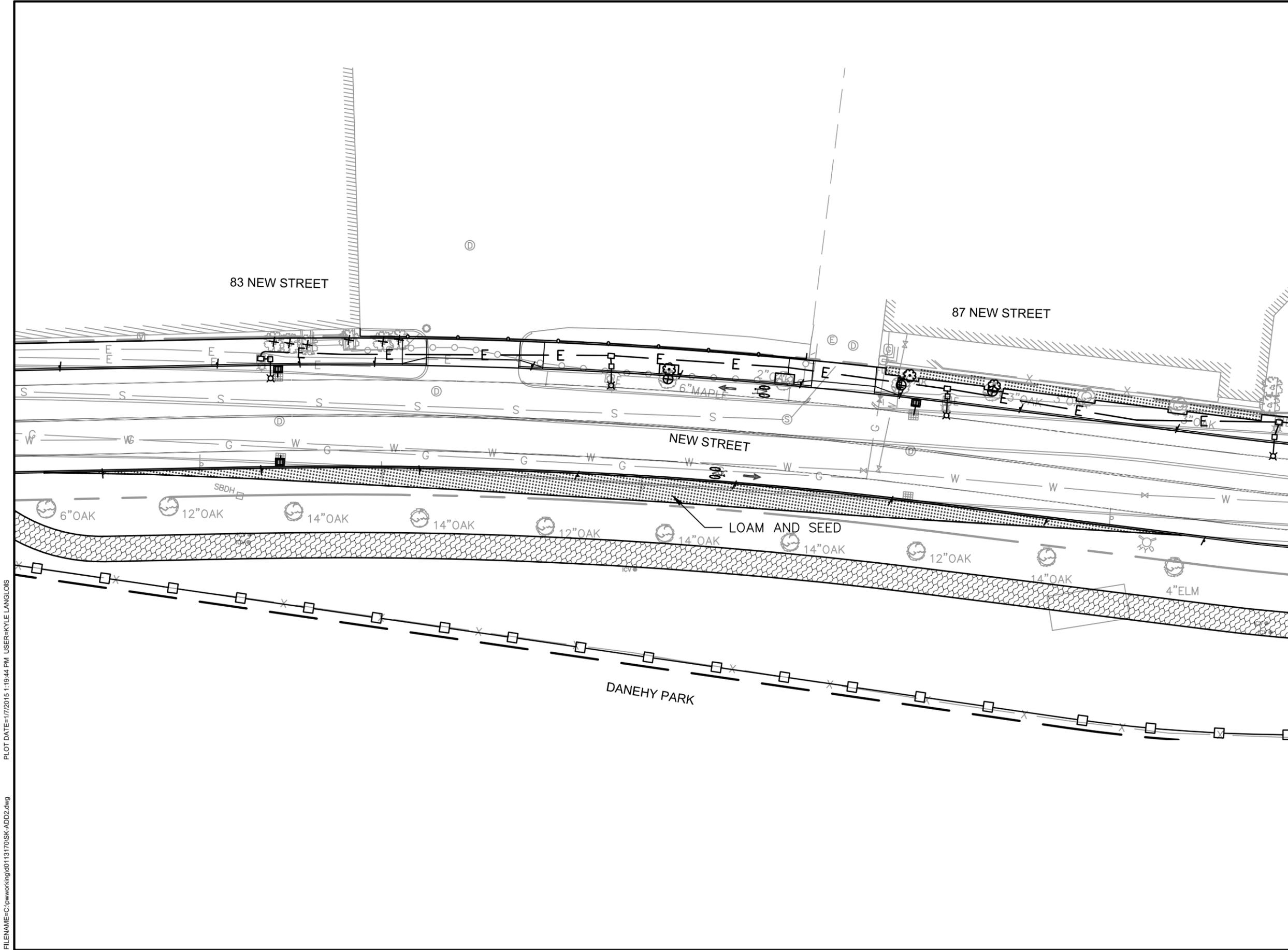
NEW STREET



CITY OF CAMBRIDGE

PROJECT NO.	20130056.009
ISSUE DATE	01/06/2015
CURRENT REVISION	0
DESIGNED BY	GMP
DRAWN BY	GMP
CHECKED BY	KJL
APPROVED BY	CMC

SK-3-ADD1



PLOT DATE=1/7/2015 1:19:44 PM USER=KYLE LANGLOIS  
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REVISIONS				
REV	DESCRIPTION	DSN DWN	CHK APP	DATE

SCALE VERIFICATION  
 THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

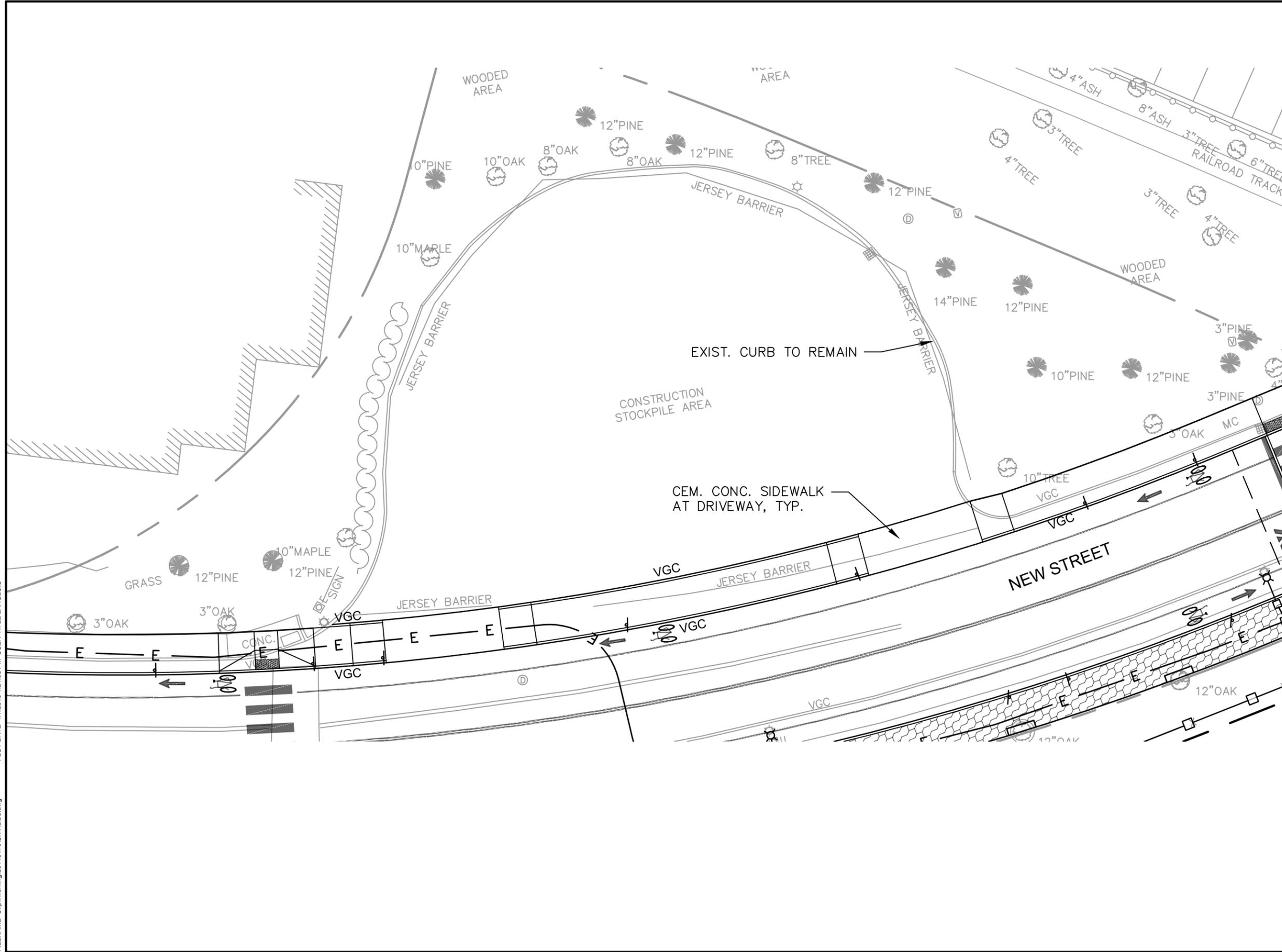
SCALE: 1" = 20' SCALE IN FEET  
 ORIGINAL DRAWING SIZE IS 11 x 17

**CONCORD LN AND NEW ST SEWER AND PUMP STATION IMPROVEMENTS PROJECT**

LOAM AND SEED  
 NEW STREET



CITY OF CAMBRIDGE	
PROJECT NO. 20130056.009	SK-4-ADD1
ISSUE DATE 01/06/2015	
CURRENT REVISION 0	
DESIGNED BY GMP	
DRAWN BY GMP	
CHECKED BY KJL	SHEET 1 of 1
APPROVED BY CMC	



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## SECTION 16135

### ROADWAY LIGHTING INFRASTRUCTURE

<b>16135.1</b>	<b>ELECTRICAL CONDUIT (SINGLE) CONCRETE ENCASED (LIGHTING)</b>	<b>LINEAR FOOT</b>
<b>16135.2</b>	<b>ELECTRIC HANDHOLE (LIGHTING)</b>	<b>EACH</b>
<b>16135.3</b>	<b>LIGHT STANDARD FOUNDATION (STANDARD PRECAST)</b>	<b>EACH</b>
<b>16135.4</b>	<b>GROUND ROD 8-FT LONG</b>	<b>EACH</b>
<b>16135.5</b>	<b>WIRE TYPE 7 NO. 10 GENERAL PURPOSE</b>	<b>LINEAR FOOT</b>
<b>16135.6</b>	<b>WIRE TYPE 7 NO. 4 GENERAL PURPOSE</b>	<b>LINEAR FOOT</b>
<b>16135.7</b>	<b>WIRE TYPE 7 NO. 1/0 GENERAL PURPOSE</b>	<b>LINEAR FOOT</b>
<b>16135.8</b>	<b>REMOVE AND RELOCATE EXISTING STREET LIGHT</b>	<b>EACH</b>

#### PART 1 - GENERAL

##### 1.1 Summary

- A. Work includes the removal and relocation of existing street lights, light pole foundations, conduit, handholes, wiring on New Street at locations indicated in the Contract Documents. All installations shall be encased in a minimum of 3" of concrete as shown on the drawings. This work shall be performed in accordance with the National Electrical Code and as required in the Contract Documents
- B. Work required to furnish and install handholes and light pole foundations for lighting shall be in accordance with Section 801 of the MassDOT Standard Specifications and as required in the Contract Documents.
- C. Work required to furnish and install ground rods and wiring shall conform to the requirements of Section 813 of the MassDOT Standard Specifications and as required in the Contract Documents.
- D. Conduits between lighting control enclosures or utility manhole to electric hand holes or lighting control enclosures shall be 4 inches.
- E. Conduits between hand holes and light bases or receptacles shall be 2 inches.

#### PART 2 - PRODUCTS

##### 2.1 Electric Conduit

- A. Rigid non-metallic conduit and fittings shall be high-quality polyvinyl chloride conduit (PVC). PVC conduit shall be heavy-wall Type 40, shall conform to industry standards and Commercial Standard CS207-60, shall be listed by Underwriters' Laboratories for direct burial underground use, and shall conform to or exceed all property requirements of UL651 and NEMA TC-2, 1970. All conduit shall be furnished with plain ends.
- B. Concrete for encasement shall be 3,000 psi / 3/8 inch / 565 per MassDOT Standards.

## 2.2 Handholes

- A. Precast handhole units for lighting shall be 12"W x 24"L x 20" D and shall otherwise meet the requirements of MassDOT Standard Specifications Section M4.02.14. Covers shall be clearly marked "LIGHTING".

## 2.3 Light Foundations (Standard Precast)

- A. Precast units shall meet the requirements of MassDOT Standard Specifications Section M4.02.14.
- B. Steel reinforcing bars shall be deformed bars rolled from new billet steel conforming to the requirements of ASTM A615, Grade 60.
- C. The Contractor shall provide 2" rigid galvanized steel conduit to stub out of base.
- D. Anchor bolts for installation of light pole per manufacturer's recommendations.

## 2.4 Ground Rod

- A. An 8 foot long, 3/4 inch copper-clad ground rod shall be provided for all light control enclosures, light fixture foundations and handholes. The minimum size grounding conductor shall be No. 4 AWG with an approved type connection at each ground rod and light fixture foundation. All steel conduit where used shall be bonded. The grounding conductor shall be continuous and where connections are made, pressure connectors suitable for the purpose shall be used. The conductor shall provide connection between the associated handhole cover frame and the ground rod and between the handhole ground rod and the lighting pole foundation. This connection will be made with an exothermic weld.

## 2.5 Wiring

- A. The minimum size wire from the circuit breaker to all hand holes shall be Two (2) No.1/0 A.W.G. type THHN copper. 1 Black, 1 White and 1 No.4 A.W.G. THHN copper. Green for grounding conductor
- B. The minimum size wire from the handholes to each light fixture luminaire, shall be two No. 10 A.W.G. type THHN copper for each service and one No. 10 A.W.G. type THHN copper for grounding. 1 Black, 1 White and 1 Green for grounding conductor

- C. The minimum size wire from the handholes to each receptacle mounted at top of light pole, shall be two No. 10 A.W.G. type THHN copper for each service and one No. 10 A.W.G. type THHN copper for grounding. 1 Black, 1 White and 1 Green for grounding conductor
- D. The minimum size grounding conductor from handhole or light fixture to ground rod shall be No. 4 AWG THHN copper with an approved type connection at each ground rod and light fixture.
- E. Wires shall be continuous where practicable and where splices are made pressure connectors suitable for the purpose shall be used.

## PART 3 - EXECUTION

### 3.1 Electrical Conduit

- A. The Perimeter of the paved are to be removed for conduit installation shall be sawcut.
- B. The depth of excavation shall be sufficient to allow passing the conduit beneath curb as necessary and encasing the conduits as specified herein and as shown on the plans. Conduits shall have a minimum of thirty inches (30”) of cover in the public way. Any deviation from this requirement must be approved by the City of Cambridge Electrical Department and Engineer prior to installation.
- C. A 6-inch wide magnetic marker tape shall be placed approximately 2-feet above underground conduit. This tape shall be colored and serve as a warning device to personnel who may be involved in future excavations that electrical cable is located below and should be avoided if possible. It will serve as a general warning that hand digging is required beyond this point in order that the rigid non-metallic conduit below the tape is not damaged or otherwise penetrated.
- D. PVC conduit shall be jointed by means of solvent cement joints. Conduit shall be cut square and deburred. All surfaces shall be wiped clean and dry. Using a natural bristle brush of width about equal to conduit size, the Contractor shall apply a coat of cement to the outside of the conduit end. (Note: Cement should be flowed on and not brushed out). Conduit and coupling shall then be firmly pressed together and the fitting turned a quarter turn to distribute the cement evenly. The time elapsed between applying the cement and completing the joint should not exceed 60 seconds. All conduit and fittings shall be watertight.
- E. All conduits shall be free of foreign materials prior to the installation of conductors
- F. A polypropylene or nylon pull rope shall be installed in all empty conduits.
- G. Conduits shall be sealed after installation, prior to placing concrete encasement and installing conductors.

### 3.2 Handhole.

- A. In general, the locations of lighting handholes are shown diagrammatically on the drawings. In general, it is the intent that a lighting handhole with ground rod be located at or near each proposed light installation.
- B. Handhole must be installed prior to the streetlight control cabinet for the service connection. No conductors other than the service entrance conductors shall be permitted in this handhole.

### 3.3 Light Standard Foundation (Precast)

- A. All foundations shall be installed at the location as shown on the plan except as approved deviations are required to meet field conditions. All locations must be approved by the Engineer prior to installation.
- B. Contractor to coordinate with the City of Cambridge Electrical Department for type of anchor bolts to be used for securing the existing light poles to the precast foundations.
- C. All foundations will be set plumb and true to grade.
- D. The Contractor shall carefully mark the proposed location of the concrete foundation and then shall determine if any utilities or underground or overhead obstruction will prevent the installation at these locations. Similar marking shall be done for the conduit runs to the foundation. If such an obstruction is evident, the Contractor shall request permission from the Engineer to move or adjust the location of the foundation.
- E. If no obstruction is apparent at the proposed foundation location, the Contractor shall make an excavation in order to install the foundation as detailed on the drawings, to be accomplished with hand digging. Mechanical excavating equipment may be used if approved by the Engineer. The Contractor must provide a compacted 6-inch cushion of gravel borrow under the foundation and shall backfill using acceptable excavated material or gravel borrow compacted in 6-inch layers around the foundation. A compaction of 95% for the backfill material of the excavation is required.
- F. The backfill shall be thoroughly compacted by tamping with a pneumatic hammer equipped with a round dirt tamping pad with a minimum diameter of 6-inches driven by an air compressor with a minimum of 100 psi pressure.
- G. The use of an impactor attachment on a standard back hoe with a dirt tamping pad may substitute for the pneumatic hammer with the permission of the Engineer. Use of a vibrator type compactor around pre-cast foundations or handholes is prohibited.
- H. If the Contractor encounters no difficulty in the excavation and the soil conditions are suitable to support the foundation, the Contractor shall install the pre-cast concrete foundation. The top of the foundation must be level and installed as indicated on the

detail plans. If difficulty is encountered in excavation due to underground obstructions, ledge, rock or when, in the opinion of the Engineer, the soil conditions require, the Contractor may install an approved precast short foundation or cast-in-place foundation with the approval of the Engineer.

- I. Where foundations are placed adjacent to straight sections of roadway curb, the bolts and face of foundation shall be parallel with the face of the curb. When adjacent to curved curb, the bolts may be adjusted with the approval of the Engineer to allow proper placement of the pole when installed.

### 3.4 Ground Rod

- A. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connection is required, use a bolted clamp.

### 3.5 Wiring

- A. Runs of wire and cable from the handholes to each light fixture shall be continuous with no splices except as required for branch connections. Splices, where required, shall be made in the handholes with compression type fittings suitable for the application. Shop drawings of the compression splice fittings shall be submitted for approval, by the Engineer, prior to any order being placed.
- B. Runs of wire and cable from the lighting load center to the handholes shall be continuous with no splices except as required for branch connections. Splices, where required, shall be made in the handholes with compression type fittings suitable for the application. Shop drawings of the compression splice fittings shall be submitted for approval, by the Engineer, prior to any order being placed.

### 3.6 Remove and Relocate Existing Street Light

- A. Removal of existing street light, heads, poles and their accessories shall be done in a manner that will not damage the material.
- B. Poles and bases shall be separated from one another without damage to either unit. The shaft shall be unscrewed from base.
- C. Underground foundations, and other materials not reused shall be removed and properly disposed of.
- D. Any damages to the street lights that are to remain operational shall be fully restored at no additional cost to the Owner.
- E. Anchor bolt installation per manufacturer's recommendations

## PART 4 – COMPENSATION

### **Item 16135.1 Electric Conduit (Single) Concrete Encased (Lighting)**

#### **METHOD OF MEASUREMENT:**

Measurement for payment for Items 16135.1 will be based on the linear foot of conduit installed as indicated in the Contract Documents or as otherwise required by the Engineer.

#### **BASIS OF PAYMENT:**

Payment for work under Items 16135.1 will be based on the unit price bid for this item in the proposal and shall include full compensation for all labor, materials, equipment, and any other incidental costs necessary for the satisfactory completion of this work including but not limited to removal and disposal of the existing conduit within limits of trench; abandonment of existing conduit and wiring; sawcutting the roadway and/or sidewalk; excavation of existing pavement and gravel in roadway areas and asphalt, brick and concrete sidewalk pavements; disposal of construction debris (existing sidewalk, concrete, brick, asphalt, etc.), compaction and backfilling with suitable fill, furnish and install conduit, formwork and concrete for concrete encasement; and all other work not included for payment elsewhere.

Encased conduit runs will be paid for under the appropriate bid item based only on the number of conduits in the run, regardless of individual conduit size or sizes in the run.

No separate payment shall be made for marking tape, pull rope, concrete, or any incidental materials, but all costs in connection therewith shall be included in the Contract unit price per foot for these Items.

#### **NOTES ON EXCLUSIONS:**

Disposal of any excavated soil not suitable for re-use is not included for payment under this item and shall be paid for separately.

### **Item 16135.2 Electric Handhole (Lighting)**

#### **METHOD OF MEASUREMENT:**

Items No. 16135.2, will be measured by the unit Each installed complete, which price and payment shall constitute full compensation for complete compliance with requirements of this item, including all labor, equipment, materials, tools, incidental work, excavation, backfill, compaction and construction methods.

#### **BASIS OF PAYMENT:**

Payment for work under these items shall constitute full compensation for sawcutting; excavation of existing pavement and gravel in roadway areas and asphalt, brick and concrete sidewalk pavements; disposal of construction debris (existing sidewalk, concrete, brick, asphalt, etc.), compaction and backfilling with suitable fill, furnish and install handhole and appurtenances, and all other work not included for payment elsewhere.

#### **NOTES ON EXCLUSIONS:**

Disposal of any excavated soil not suitable for re-use is not included for payment under this item and shall be paid for separately.

### **Item 16135.3 Light Standard Foundation (Standard Precast)**

METHOD OF MEASUREMENT: Item No. 16135.3, will be measured by the unit Each installed complete, which price and payment shall constitute full compensation for complete compliance with requirements of this item, including all labor, equipment, materials, tools, incidental work, excavation, backfill, compaction and construction methods.

**BASIS OF PAYMENT:**

Payment for work under these items shall constitute full compensation for sawcutting; excavation of existing pavement and gravel in roadway areas and asphalt, brick and concrete sidewalk pavements; disposal of construction debris (existing sidewalk, concrete, brick, asphalt, etc.), compaction and backfilling with suitable fill, furnish and install precast foundation, and all other work not included for payment elsewhere.

**NOTES ON EXCLUSIONS:**

Disposal of any excavated soil not suitable for re-use is not included for payment under this item and shall be paid for separately.

**Item 16135.4 Ground Rod – 8-FT Long**

**METHOD OF MEASUREMENT:**

Measurement for payment for Item 16135.4 will be based on each ground rod installed as indicated in the Contract Documents or as otherwise required by the Engineer.

**BASIS OF PAYMENT:**

Payment for work under Items 16135.4 will be based on the unit price bid for this item in the proposal and shall include full compensation for all labor, materials, tools, equipment, and any other incidental costs necessary for the satisfactory completion of this work including; and all other work not included for payment elsewhere.

**Item 16135.5 Wire Type No. 10 General Purpose**

**Item 16135.6 Wire Type No 4 General Purpose**

**Item 16135.7 Wire Type No 1/0 General Purpose**

**METHOD OF MEASUREMENT:**

Measurement for payment for Items 16135.5 to 16135.7 will be based on the linear foot of wiring installed as indicated in the Contract Documents or as otherwise required by the Engineer.

**BASIS OF PAYMENT:**

Payment for work under Items 16135.5 to 16135.7 will be based on the unit price bid for this item in the proposal and shall include full compensation for all labor, materials, tools, equipment, and any other incidental costs necessary for the satisfactory completion of this work including; and all other work not included for payment elsewhere.

**Item 16135.8 Remove and Relocate Existing Street Light**

**METHOD OF MEASUREMENT:**

Measurement for payment for Remove and Relocate Existing Street Light will be based on the each street light removed and relocated as indicated in the Contract Documents or as otherwise required by the Engineer.

**BASIS OF PAYMENT:**

Payment for work under Remove and Relocate Existing Street Light will be based on the unit price bid for this item in the proposal and shall include full compensation for all labor, materials, equipment, and any other incidental costs necessary for the satisfactory completion of this work including but not limited to disconnecting the street light from the foundation; the removal of the existing signal head from the existing pole as necessary; disconnect power, wiring and meter; remove, transport and stockpile the existing signal pole and head and meter; transport; protect the existing pole and head; furnish and install wiring to reconnect signal to overhead electric; removal and disposal of the existing foundation,; all connections of wiring to existing power sources and to the relocated pole; transport the pole and light head from the stockpile area back to the site; installation of the pole onto the base including all hardware; reinstallation of the head onto the existing pole including all hardware; furnish and install new bulbs; and all other work not included for payment elsewhere.

END OF SECTION 16135

Table 2  
Groundwater Analytical Data  
Concord Lane  
Cambridge, MA

Parameter	Reportable Concentrations (RCs)		MWRA DISCHARGE LIMITS	National Recommended Water Quality Criteria <a href="http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm">http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm</a>	SAMPLING LOCATION					
	RCGW-1	RCGW-2			**	Aquatic Life Criteria (Chronic except as noted)	MW-351	MW-353	MW-355	MW-357
Sampling Date					9/28/2014 8:15:00 AM	9/28/2014 9:15:00 AM	9/28/2014 10:30:00 AM	9/28/2014 11:50:00 AM	9/28/2014 2:00:00 PM	9/28/2014
Applicable RCs					RCGW-1	RCGW-2	RCGW-2	RCGW-2	--	--
<b>EPA 624 VOCs (µg/L)</b>			Each less than 1000, exc. as noted							
					ND	ND	ND	ND	ND	ND
<b>MADEP-EPH-04-1.1 (µg/L)</b>										
C9-C18 ALIPHATICS	700	5000			ND (100)	ND (95)	ND (100)	ND (100)	ND (100)	NT
C19-C36 ALIPHATICS	14000	50000			ND (100)	ND (95)	ND (100)	ND (100)	ND (100)	NT
UNADJUSTED C11-C22 AROMATICS	~	~			ND (100)	320	110	170	ND (100)	NT
C11-C22 AROMATICS	200	5000			ND (100)	280	ND (100)	150	ND (100)	NT
<b>MADEP-VPH-04-1.1 (µg/L)</b>										
UNADJUSTED C5-C8 ALIPHATICS	~	~			ND (100)	ND (200)	ND (100)	ND (500)	ND (100)	NT
C5-C8 ALIPHATICS	300	3000			ND (100)	ND (200)	ND (100)	ND (500) *	ND (100)	NT
UNADJUSTED C9-C12 ALIPHATICS	~	~			ND (100)	ND (200)	ND (100)	ND (500)	ND (100)	NT
C9-C12 ALIPHATICS	700	5000			ND (100)	ND (200)	ND (100)	ND (500)	ND (100)	NT
C9-C10 AROMATICS	200	4000			ND (100)	ND (200)	ND (100)	ND (500) *	ND (100)	NT
<b>SM18-20 2320B (mg/L)</b>				20 (minimum)						
ALKALINITY	~	~			NT	NT	NT	NT	280	NT
<b>SM18-20 4500 H B (pH Units)</b>										
PH	~	~	5.5-12	6.5-9	7.6	12	7.4	12	7.2	NT
<b>SW-846 6010C (µg/L) Metals Digestion</b>										
<i>Dissolved</i>										
ANTIMONY	6	8000	10000		0.16	0.59	0.23	0.13	0.49	NT
ARSENIC	10	900	500	150	2.1	6.1	34.1	11.5	6.5	NT
BARIUM	2000	50000			305	700	222	118	74.2	NT
CADMIUM	4	4	100	0.25	<1.0	<1.0	<1.0	<1.0	<1.0	NT
CHROMIUM	100	300	1000	74	0.58	0.64	0.43	1.1	0.52	NT
COPPER	10000	100000	1000		5.5	2.6	2.9	3.8	6.8	NT
IRON	~	~	1000	1000	1.3	0.22	0.85	ND (0.050)	ND (0.050)	NT
LEAD	10	10	200	2.5	<1.0	<1.0	1.4	0.47	0.28	NT
MANGANESE	~	~	*		229	9.7	1720	55.8	89.7	NT
NICKEL	100	200	1000	52	4.4	25.6	10.3	41.4	9.2	NT
SELENIUM	50	100	5000	5	1.3	2.2	1.4	2.1	1.5	NT
SILVER	7	7	2000	3.2 (acute)	<1.0	<1.0	<1.0	<1.0	<1.0	NT
ZINC	900	900	1000	120	4	1.7	3.3	1.5	7.2	NT
<b>Total</b>										
ANTIMONY	6	8000	10000		0.47	0.74	0.22	0.37	0.49	NT
ARSENIC	10	900	500	150	2.1	7.6	34.7	18.3	1.8	NT
BARIUM	2000	50000			421	811	245	97.2	57.4	NT
CADMIUM	4	4	100	0.25	<1.0	0.19	0.094	0.072	<1.0	NT
CHROMIUM	100	300	1000	74	0.62	4.7	4.5	5.1	0.54	NT
COPPER	10000	100000	1000		6.1	9.6	8.9	8.2	3.4	NT
IRON	~	~	1000	1000	3.2	2.6	3.1	2.2	0.15	NT
LEAD	10	10	200	2.5	1.1	33.1	4.5	2.8	0.16	NT
MANGANESE	~	~	*		250	61.5	2350	30.7	184	NT
NICKEL	100	200	1000	52	6.8	36.3	13.6	50.3	4.8	NT
SELENIUM	50	100	5000	5	0.56	1.8	0.66	2	0.71	NT
SILVER	7	7	2000	3.2 (acute)	<1.0	0.083	0.019	0.015	<1.0	NT
SODIUM	~	~			NT	NT	NT	NT	140	NT
ZINC	900	900	1000	120	6.3	21.3	12.6	9.6	6.1	NT
<b>SW-846 7470A (mg/L) Metals Digestion</b>										
MERCURY (total)	0.002	0.02	0.001	0.77	ND (0.00010)	0.00043	ND (0.00010)	ND (0.00010)	ND (0.00010)	NT
MERCURY (dissolved)	0.002	0.02		0.77	ND (0.00010)	0.00043	ND (0.00010)	ND (0.00010)	ND (0.00010)	NT
<b>SW-846 8270D SOVCs(1) (µg/L)</b>			Each less than 1000, exc. as noted							
All ND					NT	NT	ND	NT	ND	NT
<b>SW-846 8270D SOVCs (2) (µg/L)</b>			Each less than 1000, exc. as noted							
PHENANTHRENE	40	10000	1		NT	NT	2.1	NT	ND (0.050)	NT
<b>SW-846 8315A (µg/L)</b>										
Formaldehyde	~	~	9000		NT	NT	ND (50)	NT	ND (50)	NT
<b>SW-846 9014 (mg/L)</b>										
CYANIDE	0.03	0.03	0.5	0.0052	NT	NT	ND (0.010)	NT	ND (0.010)	NT
NOTES:										
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.										
2. ND = Not detected above the lab reporting limits shown in parenthesis.										
3. NT = Not tested.										
4. ~ = No Method 1 Standard or UCL available										
5. Shaded values exceed the MCP Reportable Concentrations (RCs).										
6. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.										
7. MWRA discharge limit for total EPH and VPH concentrations is 300,000 µg/L										
* No Substance causing noticeable turbidity or discoloration										
** prohibited: Groundwater, stormwater, surface water, roof or surface runoff,....subsurface drainage except as permitted										

Table 1  
Soil Analytical Data  
Concord Lane  
Cambridge, MA

Parameter	Reportable Concentrations (RCs)		SAMPLING LOCATION									
	RCS-1	RCS-2	B-35 1a 0.5-6	B-35 1a 2-4	B-351 (2-6ft)	B-35 2b 0.5-7	B-35 2b 4-6	B-352 (0.5-6ft)	ENV-1 1-7	ENV-1 4-5	ENV-1 (1-7ft)	ENV-2 1-8
Sampling Date			7/30/2014 8:20:00 AM	7/30/2014 8:15:00 AM	11/19/2014 10:00:00 AM	7/30/2014 11:20:00 AM	7/30/2014 11:15:00 AM	11/19/2014 10:00:00 AM	9/29/2014 11:00:00 AM	9/29/2014 11:00:00 AM	11/19/2014 10:00:00 AM	9/29/2014 9:00:00 AM
Sample Depth			0.5-6 Feet	2-4 Feet	2-6 Feet	0.5-7 Feet	4-6 Feet	0.5-6 Feet	1-7 Feet	4-5 Feet	1-7 Feet	1-8 Feet
<b>SM 2540G (% Wt)</b>												
% Solids	~	~	90.0	NT	86.6	89.3	NT	84.2	83.4	83.4	84.6	86.3
<b>SM18-20 2510B (µmhos/cm)</b>												
SPECIFIC CONDUCTANCE	~	~	22	NT	NT	14	NT	NT	NT	NT	NT	NT
<b>SW-846 1010 (°F)</b>												
FLASHPOINT	~	~	> 212 °F	NT	NT	> 212 °F	NT	NT	> 212 °F	NT	NT	> 212 °F
<b>SW-846 6010C (mg/Kg dry) Metals Digestion</b>												
ARSENIC	20	20	13	NT	NT	3.2	NT	NT	5.3	NT	NT	5.6
BARIUM	1000	3000	60	NT	NT	49	NT	NT	70	NT	NT	94
CADMIUM	70	100	0.58	NT	NT	0.38	NT	NT	0.36	NT	NT	0.83
CHROMIUM	100	200	17	NT	NT	15	NT	NT	5.7	NT	NT	12
LEAD	200	600	140	NT	<b>1600</b>	120	NT	<b>220</b>	110	NT	76	57
SELENIUM	400	700	ND (5.3)	NT	NT	ND (5.5)	NT	NT	ND (6.0)	NT	NT	ND (5.9)
SILVER	100	200	ND (0.53)	NT	NT	ND (0.55)	NT	NT	ND (0.60)	NT	NT	ND (0.59)
TCLP Lead	~	~	0.11	NT	5.7	0.31	NT	1.3	1.1	NT	NT	NT
<b>SW-846 7471B (mg/Kg dry) Metals Digestion</b>												
MERCURY	20	30	0.19	NT	NT	0.094	NT	NT	0.059	NT	NT	0.12
<b>SW-846 8015C (mg/Kg dry)</b>												
TPH	1000	3000	590	NT	NT	660	NT	NT	470	NT	NT	<b>1200</b>
<b>SW-846 8082A (mg/Kg dry)</b>												
All PCBs were ND except as noted below												
PCB 1260	1	4	ND (0.11)	NT	NT	ND (0.11)	NT	NT	ND (0.12)	NT	NT	1.0
<b>SW-846 8260C (mg/Kg wet)</b>												
All VOCs were ND except as noted below												
NAPHTHALENE	4	20	NT	ND (0.0093)	NT	NT	ND (0.0059)	NT	NT	ND (0.011)	NT	NT
<b>SW-846 8270D (mg/Kg dry)</b>												
All SVOCs were ND except as noted below												
ACENAPHTHENE	4	3000	0.55	NT	NT	ND (0.38)	NT	NT	ND (0.20)	NT	NT	3.8
ANTHRACENE	1000	3000	0.88	NT	NT	0.39	NT	NT	0.31	NT	NT	8.2
BENZO(A)ANTHRACENE	7	40	3.2	NT	NT	1.7	NT	NT	1.5	NT	NT	<b>11</b>
BENZO(A)PYRENE	2	7	<b>3.0</b>	NT	NT	1.7	NT	NT	1.5	NT	NT	<b>9.9</b>
BENZO(B)FLUORANTHENE	7	40	3.4	NT	NT	2.0	NT	NT	1.8	NT	NT	<b>11</b>
BENZO(G,H,I)PERYLENE	1000	3000	1.9	NT	NT	0.92	NT	NT	0.70	NT	NT	7.2
BENZO(K)FLUORANTHENE	70	400	1.3	NT	NT	0.80	NT	NT	0.66	NT	NT	4.0
BIS(2-ETHYLHEXYL)PHTHALATE	90	600	ND (0.75)	NT	NT	ND (0.75)	NT	NT	ND (0.40)	NT	NT	0.47
CHRYSENE	70	400	3.2	NT	NT	1.7	NT	NT	1.7	NT	NT	10
DIBENZ(A,H)ANTHRACENE	0.7	4	0.61	NT	NT	ND (0.38)	NT	NT	ND (0.20)	NT	NT	<b>1.2</b>
DIBENZOFURAN	100	1000	ND (0.75)	NT	NT	ND (0.75)	NT	NT	ND (0.40)	NT	NT	7.2
FLUORANTHENE	1000	3000	4.6	NT	NT	2.6	NT	NT	2.8	NT	NT	30
FLUORENE	1000	3000	0.49	NT	NT	ND (0.38)	NT	NT	ND (0.20)	NT	NT	6.5
INDENO(1,2,3-CD)PYRENE	7	40	2.1	NT	NT	1.0	NT	NT	0.72	NT	NT	6.5
2-METHYLNAPHTHALENE	0.7	80	ND (0.38)	NT	NT	ND (0.38)	NT	NT	ND (0.20)	NT	NT	<b>5.4</b>
NAPHTHALENE	4	20	0.56	NT	NT	ND (0.38)	NT	NT	0.26	NT	NT	<b>18</b>
PHENANTHRENE	10	1000	3.2	NT	NT	1.3	NT	NT	1.3	NT	NT	<b>41</b>
PYRENE	1000	3000	5.2	NT	NT	2.4	NT	NT	3.4	NT	NT	30
<b>SW-846 9014 (mg/Kg)</b>												
REACTIVE CYANIDE	~	~	ND (3.9)	NT	NT	ND (4.0)	NT	NT	ND (4.0)	NT	NT	ND (3.9)
<b>SW-846 9030A (mg/Kg)</b>												
REACTIVE SULFIDE	~	~	ND (19)	NT	NT	ND (20)	NT	NT	ND (20)	NT	NT	ND (20)
<b>SW-846 9045C (pH Units)</b>												
PH	~	~	8.1	NT	NT	8.6	NT	NT	8.1	NT	NT	8.7
NOTES:												
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.												
2. ND = Not detected above the lab reporting limits shown in parenthesis.												
3. NT = Not tested.												
4. ~ = No Method 1 Standard or UCL available												
5. Shaded values exceed the MCP Reportable Concentrations (RCs).												
6. Bolded values exceed the Method 1 Cleanup Standards.												

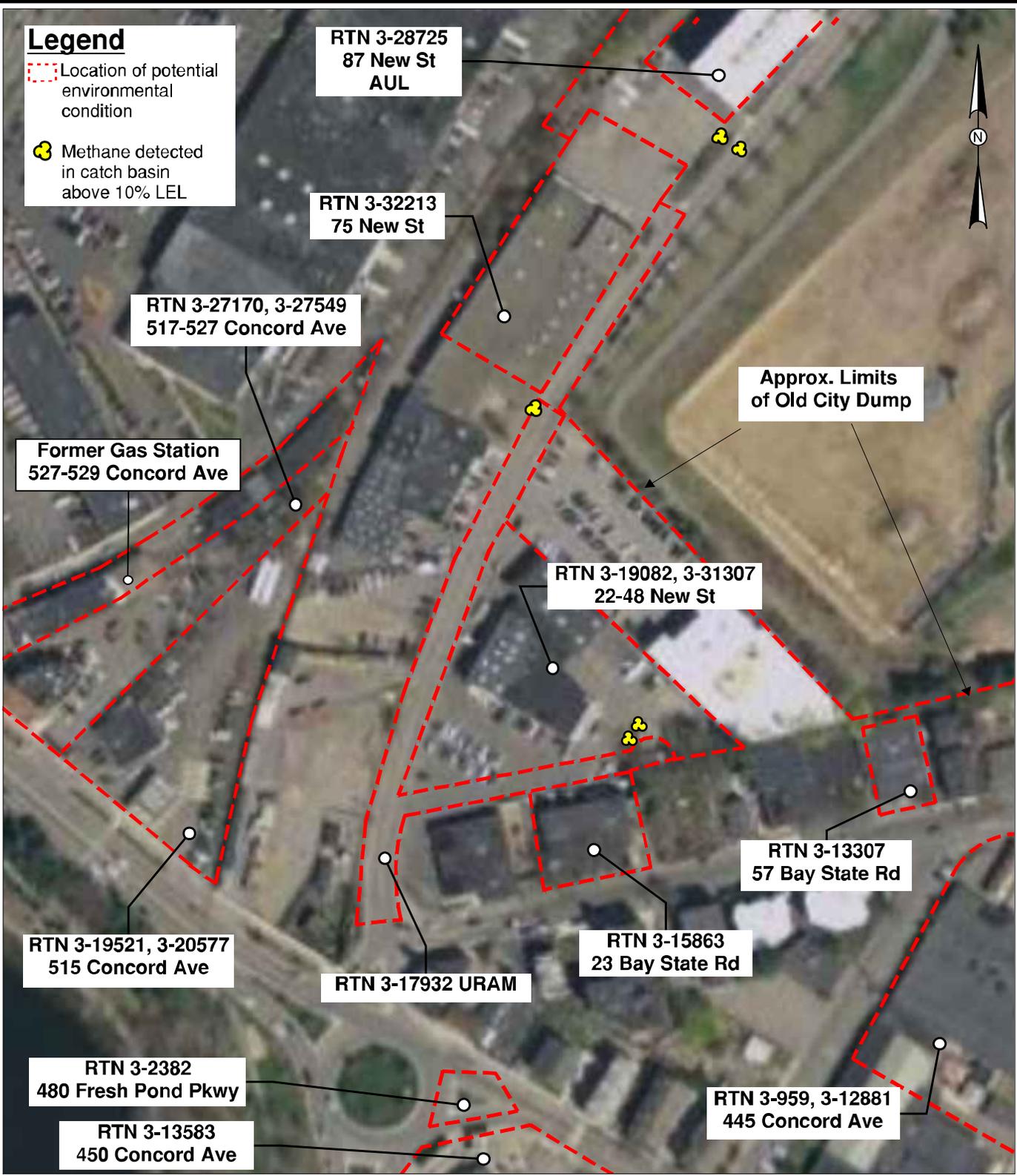
Table 1  
Soil Analytical Data  
Concord Lane  
Cambridge, MA

Parameter	Reportable Concentrations (RCs)		Reportable Concentrations (RCs)								
	RCS-1	RCS-2	ENV-2 S2 2.5-4.5	ENV-2 S3 5-5.9	ENV-2 (1-6ft)	ENV-3 0.5-8	ENV-3 S-2 2.5-4.5	ENV-3 (0.5-6.5ft)	ENV-4 1-9	ENV-4 (0.5-6ft)	TP-CL-2 (1-4ft)
Sampling Date			9/29/2014 9:00:00 AM	9/29/2014 9:00:00 AM	11/19/2014 10:00:00 AM	9/29/2014 8:30:00 AM	9/29/2014 8:00:00 AM	11/19/2014 10:00:00 AM	9/29/2014 12:00:00 PM	11/19/2014 10:00:00 AM	11/19/2014 10:00:00 AM
Sample Depth			2.5-4.5 Feet	5-5.9 Feet	1-6 Feet	0.5-8 Feet	2.5-4.5 Feet	0.5-6.5 Feet	1-9 Feet	0.5-6 Feet	1-4 Feet
<b>SM 2540G (% Wt)</b>											
% Solids	~	~	86.3	86.3	88.6	84.8	84.8	87.4	80.4	69.9	77.8
<b>SM18-20 2510B (µmhos/cm)</b>											
SPECIFIC CONDUCTANCE	~	~	NT	NT		NT	NT	NT	NT	NT	NT
<b>SW-846 1010 (°F)</b>											
FLASHPOINT	~	~	NT	NT	NT	> 212 °F	NT	NT	> 212 °F	NT	NT
<b>SW-846 6010C (mg/Kg dry) Metals Digestion</b>											
ARSENIC	20	20	NT	NT	NT	5.7	NT	NT	ND (3.3)	NT	NT
BARIUM	1000	3000	NT	NT	NT	51	NT	NT	77	NT	NT
CADMIUM	70	100	NT	NT	NT	0.48	NT	NT	0.69	NT	NT
CHROMIUM	100	200	NT	NT	NT	15	NT	NT	15	NT	NT
LEAD	200	600	NT	NT	91	<b>270</b>	NT	11	36	51	<b>630</b>
SELENIUM	400	700	NT	NT	NT	ND (5.6)	NT	NT	ND (6.6)	NT	NT
SILVER	100	200	NT	NT	NT	ND (0.56)	NT	NT	ND (0.66)	NT	NT
TCLP Lead	~	~	NT	NT	NT	0.0547	NT	NT	NT	NT	6.2
<b>SW-846 7471B (mg/Kg dry) Metals Digestion</b>											
MERCURY	20	30	NT	NT	NT	0.065	NT	NT	0.091	NT	NT
<b>SW-846 8015C (mg/Kg dry)</b>											
TPH	1000	3000	NT	NT	NT	780	NT	NT	<b>3500</b>	NT	NT
<b>SW-846 8082A (mg/Kg dry)</b>											
All PCBs were ND except as noted below											
PCB 1260	1	4	NT	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	NT
<b>SW-846 8260C (mg/Kg wet)</b>											
All VOCs were ND except as noted below											
NAPHTHALENE	4	20	ND (0.012)	<b>99</b>	NT	NT	ND (0.011)	NT	NT	NT	NT
<b>SW-846 8270D (mg/Kg dry)</b>											
All SVOCs were ND except as noted below											
ACENAPHTHENE	4	3000	NT	NT	NT	0.92	NT	NT	<b>4.8</b>	NT	NT
ANTHRACENE	1000	3000	NT	NT	NT	3.4	NT	NT	4.9	NT	NT
BENZO(A)ANTHRACENE	7	40	NT	NT	NT	<b>7.7</b>	NT	NT	<b>9.3</b>	NT	NT
BENZO(A)PYRENE	2	7	NT	NT	NT	<b>6.7</b>	NT	NT	<b>7.1</b>	NT	NT
BENZO(B)FLUORANTHENE	7	40	NT	NT	NT	<b>7.4</b>	NT	NT	<b>9.1</b>	NT	NT
BENZO(G,H,I)PERYLENE	1000	3000	NT	NT	NT	3.7	NT	NT	5.2	NT	NT
BENZO(K)FLUORANTHENE	70	400	NT	NT	NT	3.2	NT	NT	4.2	NT	NT
BIS(2-ETHYLHEXYL)PHTHALATE	90	600	NT	NT	NT	0.80	NT	NT	0.63	NT	NT
CHRYSENE	70	400	NT	NT	NT	7.6	NT	NT	9.4	NT	NT
DIBENZ(A,H)ANTHRACENE	0.7	4	NT	NT	NT	<b>0.97</b>	NT	NT	<b>1.2</b>	NT	NT
DIBENZOFURAN	100	1000	NT	NT	NT	0.43	NT	NT	2.2	NT	NT
FLUORANTHENE	1000	3000	NT	NT	NT	14	NT	NT	21	NT	NT
FLUORENE	1000	3000	NT	NT	NT	0.92	NT	NT	4.3	NT	NT
INDENO(1,2,3-CD)PYRENE	7	40	NT	NT	NT	3.7	NT	NT	4.8	NT	NT
2-METHYLNAPHTHALENE	0.7	80	NT	NT	NT	0.20	NT	NT	<b>1.9</b>	NT	NT
NAPHTHALENE	4	20	NT	NT	NT	0.28	NT	NT	3.1	NT	NT
PHENANTHRENE	10	1000	NT	NT	NT	8.1	NT	NT	<b>27</b>	NT	NT
PYRENE	1000	3000	NT	NT	NT	17	NT	NT	19	NT	NT
<b>SW-846 9014 (mg/Kg)</b>											
REACTIVE CYANIDE	~	~	NT	NT	NT	ND (3.9)	NT	NT	ND (4.0)	NT	NT
<b>SW-846 9030A (mg/Kg)</b>											
REACTIVE SULFIDE	~	~	NT	NT	NT	ND (20)	NT	NT	ND (20)	NT	NT
<b>SW-846 9045C (pH Units)</b>											
PH	~	~	NT	NT	NT	8.9	NT	NT	12	NT	NT
NOTES:											
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exce											
2. ND = Not detected above the lab reporting limits shown in parenthesis.											
3. NT = Not tested.											
4. ~ = No Method 1 Standard or UCL available											
5. Shaded values exceed the MCP Reportable Concentrations (RCs).											
6. Bolded values exceed the Method 1 Cleanup Standards.											

**Legend**

 Location of potential environmental condition

 Methane detected in catch basin above 10% LEL



NOT TO SCALE



Environmental Location Plan  
New Street Pump Station  
Cambridge, Massachusetts

Figure  
3

SECTION 00300ADD1  
FORM FOR GENERAL BID

To the Awarding Authority: CITY OF CAMBRIDGE, MASSACHUSETTS

A. The undersigned proposes to furnish all labor and materials required for

**Concord Lane and New Street Sewer and Pump Station Improvements  
CAMBRIDGE, MA**

in accordance with the accompanying plans and specifications including all Labor and Materials, for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

The bidder may utilize subcontractors' qualifications for responding to the quality requirements. However, the bidder is specifically advised that any person, firm or other party to whom it proposes to award a subcontract under the terms of this contract must be acceptable to the owner and to the Commonwealth of Massachusetts.

Bidding procedures shall be accordance with M.G.L. c. 30, §39M (a) and (c), as most recently amended, and all other applicable laws.

B. QUALITY REQUIREMENTS

The City of Cambridge will reject any bid that does not meet the quality requirements. A "no" response or a failure to adequately respond to any of the following quality requirements will result in a rejection of your bid.

- |  |     |    |
|--|-----|----|
| 1. Bidder has been in the business of performing reconstruction of sewers, drains, water mains, sidewalks, and roadways for municipalities or public utilities for at least ten (10) years.          | YES | NO |
| 2. Bidder has equipment and personnel available to respond within four (4) hours to emergency calls relating to work of this contract 24 hours a day, 7 days a week, throughout the contract period. | YES | NO |

Bidder's Name \_\_\_\_\_

3. Bidder has evaluated its current project workload and determined that it has the capacity, through its current professional and labor workforce, to begin the contract within ten days following the date set forth in the Notice to Proceed. YES NO
4. The Bidder has reviewed the labor, equipment, and capacity requirements for its projected workload in Year 2015 and has determined that the Bidder has the resources to perform the work proposed in the Concord Lane and New Street Sewer and Pump Station Improvements Project. YES NO
- C. This bid includes addenda numbered \_\_\_\_\_
- D. The bidder hereby agrees to commence work under this Contract on or before ten (10) days following receipt of a written "Notice To Proceed", by the Owner, and to fully complete All work for Milestone 1 – Concord Lane and New Street Sewer Pump Station Subsurface Infrastructure Work to be completed by September 19, 2015. All work for Milestone 2 - Concord Lane and New Street Sewer Pump Station Surface Work to be completed by November 13, 2015. Milestone requirements are described in Specification Section 00200 Invitation to Bid.
- E. Liquidated damages specified in this contract are **\$3,950.00** per day for each calendar day beyond Milestone 1 or Milestone 2 for all work that remains uncompleted. Fines, penalties or other such penalties that will be assessed upon the City if the work described as Milestone Number 1 is not completed by December 31, 2015 are in addition to the liquated damages described above.
- F. Proposed **BID** Price is \_\_\_\_\_  
 (Amount in Words)  
 \_\_\_\_\_  
 (\$ \_\_\_\_\_).  
 (Amount in Figures)
- G. The subdivision of the Proposed Contract Price is as follows: **(All quantities are approximate)**
- H. **Items 1200.2, 2080.1 through 2095.10, 2210.1, 2210.2, and 2534.1 contain minimum unit prices. The Contractor shall add to this value an adjustment to provide the final unit price bid for the respective item. The final unit price bid shall be the sum of the minimum unit price and the Bidders additional price. Insertion of 0 is allowable. In that case, the final unit cost will be the minimum unit cost.**

(SEE FOLLOWING PAGES)

Bidder's Name \_\_\_\_\_

**SRF ELIGIBLE BID ITEMS**

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
1060.1	n/a	Allowance	DCR Construction Access Permit Allowance (\$29,300 _____) Allowance	\$29,300 _____
1060.2	1	Allowance	MWRA Dewatering Discharge Permit Fee (\$20,000 _____) Allowance	\$20,000 _____
1200.1	1	Lump Sum	Temporary Utility Support and Coordination (\$ _____) Per Lump Sum	\$ _____
1200.2	1	Lump Sum	Survey Construction Layout, As-Builts (\$10,000 + _____) Per Lump Sum	\$ _____
1390.1	1	Lump Sum	Internal and External Preconstruction Video Building Inspection (\$ _____) Per Lump Sum	\$ _____
1400.1	1	Allowance	Quality Control and Testing (\$20,000 _____) Allowance	\$20,000 _____
1505.1	1	Lump Sum	Mobilization (2%) (\$ _____) Per Lump Sum	\$ _____
1568.1	1	Lump Sum	Sedimentation and Erosion Control (\$ _____) Per Lump Sum	\$ _____
1570.1	1	Lump Sum	Traffic and Pedestrian Management (\$ _____) Per Lump Sum	\$ _____
1570.2	10	Unit Week	Remote Control Changeable Message Sign (\$ _____) Per Unit Week	\$ _____

Bidder's Name \_\_\_\_\_  
 New St/Concord Ln  
 Addendum 1

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2015.1	1	Lump Sum	Vibration Monitoring (\$ _____) Per Lump Sum	\$ _____
2015.2	40	Each	Building or Structure Monitoring Points (\$ _____) Per Each	\$ _____
2015.3	9	Each	Ground and Utility Monitoring Point (\$ _____) Per Each	\$ _____
2051.1	510	Ton	Disposal of Construction Debris as Solid Waste (\$ _____) Per Ton	\$ _____
2051.2	1500	Ton	Disposal of Bituminous Concrete (\$ _____) Per Ton	\$ _____
2051.3	23	Each	Demolition or Removal of Manhole, Catch Basin, Lamphole (\$ _____) Per Each	\$ _____
2051.4	315	Linear Foot	Abandon in Place Pipe – 15-Inch Through 24-Inch Diameter (\$ _____) Per Linear Foot	\$ _____
2051.5	263	Linear Foot	Demolition or Removal of Pipe 15-Inch through 24-Inch Diameter (\$ _____) Per Linear Foot	\$ _____
2080.1	1	Lump Sum	OHM – Soil and Waste Management (\$30,000 + _____) Per Lump Sum	\$ _____
2080.2	50	Ton	OHM – Handling Asbestos - Contaminated Soil/Fill (\$50.00 + _____) Per Ton	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-4

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2080.3	50	Ton	OHM – Handle and Characterize Unknown Material (\$55.00 + _____) Per Ton	\$ _____
2095.1	200	Ton	OHM – Disposal of Soil – Daily Cover Unlined Landfill (Class A-1, A-2) (\$10.00 + _____) Per Ton	\$ _____
2095.2	400	Ton	OHM – Disposal of Soil – Daily Cover Unlined Landfill (Class B-1) (\$27.00 + _____) Per Ton	\$ _____
2095.3	4900	Ton	OHM – Disposal of Soil – Daily Cover Lined Landfill (Class B-2) (\$30.00 + _____) Per Ton	\$ _____
2095.4	400	Ton	OHM – Disposal of Soil – Non-Hazardous Solid Waste Asphalt Batching In-State (Class B-3) (\$32.00 + _____) Per Ton	\$ _____
2095.5	200	Ton	OHM – Disposal of Soil – Non-Hazardous Solid Waste Thermal Treatment (Class B-4) (\$40.00 + _____) Per Ton	\$ _____
2095.6	200	Ton	OHM – Disposal of Soil – Non-Hazardous Solid Waste Recycling (Class B-5) (\$50.00 + _____) Per Ton	\$ _____
2095.7	100	Ton	OHM – Disposal of Soil – Non-Hazardous Solid Waste (Class B-6) (\$80.00 + _____) Per Ton	\$ _____
2095.8	1,200	Ton	OHM – Disposal of Soil – Treatment of RCRA Characteristically Hazardous Soil to De-Characterize and Dispose of Soil as Non-Hazardous Waste (Class C-1) (\$80.00 + _____) Per Ton	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-5

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2095.9	200	Ton	OHM – Disposal of Soil – RCRA Hazardous Waste (Class C-2) (\$100.00 + _____) Per Ton	\$ _____
2095.10	100	Ton	OHM – Disposal of Special Waste (\$80.00 + _____) Per Ton	\$ _____
2100.1	1	Lump Sum	Tree Protection and Maintenance (\$ _____) Per Lump Sum	\$ _____
2100.2	2	Each	Tree Removal (\$ _____) Per Each	\$ _____
2100.3	2	Each	Stump Removal (\$ _____) Per Each	\$ _____
2140.1	70	Day	Treatment of Construction Dewatering (\$ _____) Per Day	\$ _____
2210.1	300	Cubic Yard	Test Pits (\$5.00+ _____) Per Cubic Yard	\$ _____
2210.2	100	Cubic Yard	Control Density Fill for Backfill (\$5.00+ _____) Per Cubic Yard	\$ _____
2210.3	390	Cubic Yard	Gravel Sub-base (\$ _____) Per Cubic Yard	\$ _____
2210.4	566	Cubic Yard	Over Excavation of Unsuitable Soil and Backfill with Suitable Soil (\$ _____) Per Cubic Yard	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-6

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	
			Description of the Work and Unit Price Bid Written in Numbers	Amount
2210.5	493	Cubic Yard	Unclassified Excavation (\$ _____) Per Cubic Yard	\$ _____
2210.6	390	Cubic Yard	Roadway Earth Excavation (for Full Depth, Outside Trench Limits) (\$ _____) Per Cubic Yard	\$ _____
2210.7	1	Lump Sum	Crushed Stone in D38CBN1519 (\$ _____) Per Lump Sum	\$ _____
2252.1	12	Each	Type 1 – Manhole – Precast 4-Foot Diameter (\$ _____) Per Each	\$ _____
2252.2	2	Each	Type 4 – Sump Manhole – Precast – 4-foot Diameter (\$ _____) Per Each	\$ _____
2252.3	4	Each	Type 6 – Manhole – Precast 4-Foot Manhole Over Existing Utility (\$ _____) Per Each	\$ _____
2252.4	2	Each	Type 7 – Manhole – Precast 3-Foot by 4-Foot (\$ _____) Per Each	\$ _____
2252.5	4	Each	Siphon Manhole for Deep Lateral (\$ _____) Per Each	\$ _____
2252.6	1	Each	New Street Sanitary Overflow Manhole (STA. 21+25 (9'L)) (\$ _____) Per Each	\$ _____
2252.7	20	Each	Existing Drainage or Sewer Structure Adjusted (\$ _____) Per Each	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-7

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2252.8	6	Each	Manhole – Remove and Replace Existing Frame and Cover (\$ _____) Per Each	\$ _____
2466.1	6	Each	Helical Piles (\$ _____) Per Each	\$ _____
2500.1	531	Ton	Hot Mix Asphalt Base Course – Trench Width (Temporary Trench Patch) (\$ _____) Per Ton	\$ _____
2500.2	223	Ton	Hot Mix Asphalt Base Course – Trench Width (Permanent Trench Patch) (\$ _____) Per Ton	\$ _____
2500.3	1,537	Ton	Hot Mix Asphalt – Base Course (\$ _____) Per Ton	\$ _____
2500.4	1,343	Ton	Hot Mix Asphalt – Top Course (\$ _____) Per Ton	\$ _____
2500.5	3,877	Square Yard	Cold Plane 2-inch (\$ _____) Per Square Yard	\$ _____
2500.6	3,270	Linear Foot	Hot Poured Rubberized Asphalt Sealer (\$ _____) Per Linear Foot	\$ _____
2500.7	380	Linear Foot	Hot Mix Asphalt Infrared Pavement Sealing (\$ _____) Per Linear Foot	\$ _____
2500.8	40	Ton	Hand Placement of Hot Mixed Asphalt (\$ _____) Per Ton	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-8

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	
			Description of the Work and Unit Price Bid Written in Numbers	Amount
2500.9	7,111	Square Yard	Fine Grading and Compacting Subbase (\$ _____) Per Square Yard	\$ _____
2500.10	35	Square Yard	Rustic Red Optiloc Pavers on 6-in Bituminous Concrete Base (Raised Intersection) (\$ _____) Per Square Yard	\$ _____
2500.11	5200	Square Yard	Pavement Reclamation, Pulverizing, Full Width, 12-in Depth (\$ _____) Per Square Yard	\$ _____
2520.1	712	Square Yard	Flexible Porous Paving (Proprietary) (\$ _____) Per Square Yard	\$ _____
2524.1	1,128	Square Yard	4-inch Cement Concrete Sidewalks (\$ _____) Per Square Yard	\$ _____
2524.2	565	Square Yard	6-inch Cement Concrete Sidewalks at Driveways (\$ _____) Per Square Yard	\$ _____
2524.3	324	Square Yard	6-inch Cement Concrete Sidewalks at Pedestrian Ramps and Intersections (\$ _____) Per Square Yard	\$ _____
2524.4	1404	Linear Foot	Remove and Reset/Relocate Granite Curb (Straight and Curved) (\$ _____) Per Linear Foot	\$ _____
2524.5	738	Linear Foot	Remove and Discard Granite Curb (Straight and Curved) (\$ _____) Per Linear Foot	\$ _____
2524.6	1653	Linear Foot	New Granite Curb Type VA 4 (Straight and Curved) (\$ _____) Per Linear Foot	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-9

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	
			Description of the Work and Unit Price Bid Written in Numbers	Amount
2524.7	440	Linear Foot	New Granite Curb Type VA 4 Transition (Straight and Curved) (\$ _____) Per Linear Foot	\$ _____
2524.8	250	Linear Foot	New Granite Curb Type VA 3(Straight and Curved) (\$ _____) Per Linear Foot	\$ _____
2524.9	10	Each	Granite Curb 2-ft Curb Corner (\$ _____) Per Each	\$ _____
2524.10	390	Square Foot	Cast-in-Place Detectable Tile (\$ _____) Per Square Foot	\$ _____
2524.11	7	Square Yard	Granite Cobblestone Pavers (\$ _____) Per Square Yard	\$ _____
2524.12	10	Ton	2 ½-inch Hot Mix Asphalt Sidewalk (Bike Path) (\$ _____) Per Ton	\$ _____
2524.13	32	Linear Foot	New Concrete Curb (Straight and Curved) (\$ _____) Per Linear Foot	\$ _____
2524.14	81	Linear Foot	New Bituminous Curb (Straight and Curved) (\$ _____) Per Linear Foot	\$ _____
2534.1	1	Each	Private Building Site Pre-Inspection (\$200.00 + _____) Per Each	\$ _____
2555.1	1	Each	Catch Basin Lining (\$ _____) Per Each	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-10

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2577.1	7,805	Linear Foot	4-inch to 8-inch Reflectorized Pavement Markings – Yellow and White Thermoplastic (\$ _____) Per Linear Foot	\$ _____
2577.2	1,006	Square Foot	Pavement Arrows and Legends Refl. White (Thermoplastic) (\$ _____) Per Square Foot	\$ _____
2577.3	1,625	Square Foot	Crosswalks and Stop Lines Refl. White (Thermoplastic) (\$ _____) Per Square Foot	\$ _____
2577.4	419	Square Foot	High Friction Surface Treatment (\$ _____) Per Square Foot	\$ _____
2604.1	14	Each	Catch Basin – Type 1 Single Grate (4-Foot Diameter) (\$ _____) Per Each	\$ _____
2604.2	2	Each	Catch Basin – Type 3 Single Grate (3' x4') (\$ _____) Per Each	\$ _____
2604.3	3	Each	Catch Basin – Type 5 Single Grate (\$ _____) Per Each	\$ _____
2604.4	1	Each	Catch Basin – Type 5 Double Grate (\$ _____) Per Each	\$ _____
2604.5	3	Each	Catch Basin – Remove and Replace Existing Frame and Grate (\$ _____) Per Each	\$ _____
2604.6	3	Each	Catch Basin – Remove and Replace Manhole Flattop with Type-2 Frame and Double Grate (6-ft) (\$ _____) Per Each	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-11

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2604.7	2	Each	Catch Basin – Type 2 Double Grate (5-ft Diameter) (\$ _____) Per Each	\$ _____
2609.1	215	Linear Foot	Pipe – RCP (Gravity) 12-inch (\$ _____) Per Linear Foot	\$ _____
2615.1	226	Linear Foot	Pipe – DI (Gravity) 24-inch (\$ _____) Per Linear Foot	\$ _____
2615.2	123	Linear Foot	Pipe – DI (Gravity) 12-inch (\$ _____) Per Linear Foot	\$ _____
2615.3	15	Linear Foot	Pipe – DI (Gravity) 8-inch (\$ _____) Per Linear Foot	\$ _____
2615.4	309	Linear Foot	Pipe – DI (Pressure) 4-inch (\$ _____) Per Linear Foot	\$ _____
2615.5	101	Linear Foot	Pipe – DI (Pressure) 8-inch (\$ _____) Per Linear Foot	\$ _____
2622.1	330	Linear Foot	Pipe – PVC (Gravity) 24-inch (\$ _____) Per Linear Foot	\$ _____
2622.2	8	Linear Foot	Pipe – PVC (Gravity) 15-inch (\$ _____) Per Linear Foot	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-12

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2622.3	518	Linear Foot	Pipe – PVC (Gravity) 12-inch (\$ _____) Per Linear Foot	\$ _____
2622.4	8	Linear Foot	Pipe – PVC (Gravity) 10-inch (\$ _____) Per Linear Foot	\$ _____
2622.5	15	Linear Foot	Pipe – PVC (Gravity) 6-inch (\$ _____) Per Linear Foot	\$ _____
2622.6	150	Linear Foot	Reconnect, Repair or Relocate Existing Sanitary Sewer and Storm Drain Laterals (\$ _____) Per Linear Foot	\$ _____
2622.7	1	Each	Dig and Replace Spot Repair 24” PVC Drain over 12” PVC Sanitary Sewer (\$ _____) Per Each	\$ _____
2630.1	15	Linear Foot	Pipe – DI (Water) 4-inch (\$ _____) Per Linear Foot	\$ _____
2630.2	30	Linear Foot	Pipe – DI (Water) 6-inch (\$ _____) Per Linear Foot	\$ _____
2630.3	55	Linear Foot	Pipe – DI (Water) 8-inch (\$ _____) Per Linear Foot	\$ _____
2630.4	400	Linear Foot	Pipe – DI (Water) 10-inch (\$ _____) Per Linear Foot	\$ _____
2640.1	1	Each	4-inch Gate Valve and Gate Box (\$ _____) Per Each	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-13

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2640.2	3	Each	6-in Gate Valve and Gate Box (\$ _____) Per Each	\$ _____
2640.3	3	Each	8-in Gate Valve and Gate Box (\$ _____) Per Each	\$ _____
2640.4	4	Each	10-in Gate Valve and Gate Box (\$ _____) Per Each	\$ _____
2645.1	3	Each	New Hydrant (\$ _____) Per Each	\$ _____
2645.2	3	Each	Remove and Dispose of Existing Hydrant (\$ _____) Per Each	\$ _____
2660.1	50	Linear Foot	1-in to 3-in Water Service Replacement (\$ _____) Per Linear Foot	\$ _____
2685.1	860	Linear Foot	Temporary Water Bypass Piping (\$ _____) Per Linear Foot	\$ _____
2712.1	1	Lump Sum	Illicit Connection Survey (Entire Project Area) (\$ _____) Per Lump Sum	\$ _____
2760.1	1	Lump Sum	Cleaning of Stormwater Storage Tank (\$ _____) Per Lump Sum	\$ _____
2761.1	1	Lump Sum	Flow Bypass (\$ _____) Per Lump Sum	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-14

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2767.1	430	Linear Feet	Cured in Place Pipelining – 12- inch Sanitary Sewer (\$ _____) Per Linear Foot	\$ _____
2767.2	40	Linear Feet	Cured in place pipelining – 15- inch Storm Drain (\$ _____) Per Linear Foot	\$ _____
2900.1	349	Square Yards	Seeded Lawn (\$ _____) Per Square Yard	\$ _____
2901.1	105	Cubic Yards	Planting Soils (\$ _____) Per Cubic Yard	\$ _____
2902.1	11	Cubic Yards	Structural Planting Medium (\$ _____) Per Each Cubic Yard	\$ _____
2910.2	3	Each	Relocate Tree (\$ _____) Per Each	\$ _____
2910.3	6	Each	Remove Shrubs (\$ _____) Per Each	\$ _____
2950.1	100	Square Yard	Hardscape Back of Sidewalk Restoration (\$ _____) Per Square Yard	\$ _____
2950.2	355	Square Yard	Asphalt Back of Sidewalk Restoration (\$ _____) Per Square Yard	\$ _____
2950.3	100	Square Yard	Landscape Back of Sidewalk Restoration (\$ _____) Per Square Yard	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
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FORM FOR GENERAL BID  
00300ADD1-15

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
2980.1	6	Each	Street Name Sign (\$ _____) Per Each	\$ _____
2980.2	75	Each	Street Sign Post (\$ _____) Per Each	\$ _____
2980.3	190	Square Feet	Warning-Regulatory and Route Marker – Aluminum Panel (Type A) (\$ _____) Per Square Foot	\$ _____
2980.4	860	Linear Feet	Remove Ornamental Fence and Replace with 6-FT Black Vinyl Coated Chain Link Fence (\$ _____) Per Linear Foot	\$ _____
2980.5	5	Linear Feet	Remove Chain Link Fence (\$ _____) Per Linear Foot	\$ _____
2980.6	250	Linear Feet	Remove Chain Link Fence and Replace with 6-foot Chain Link Fence (\$ _____) Per Linear Foot	\$ _____
2980.7	8	Each	Remove Bollard (\$ _____) Per Each	\$ _____
2980.8	2	Each	Bollard (\$ _____) Per Each	\$ _____
2980.10	104	Linear Feet	Remove and Replace Speed Bump (\$ _____) Per Linear Foot	\$ _____
3300.1	10	Each	CIP Concrete Pipe Connection 24" Diameter (CIP Field Closure) (\$ _____) Per Each	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-16

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u>	Amount
			Description of the Work and Unit Price Bid Written in Numbers	
11148.1	1	Lump Sum	Groundwater and Sanitary Sewer Pump Station (\$ _____) Per Lump Sum	\$ _____
15250.1	10	Linear Foot	Building Interior Pipe and Fittings (\$ _____) Per Linear Foot	\$ _____
15250.2	1	Each	12-inch Flap Gate (\$ _____) Per Each	\$ _____
16135.1	650	Linear Feet	Electrical Conduit (Single) Concrete Encased (Lighting) (\$ _____) Per Linear Foot	\$ _____
16135.2	6	Each	Electrical Handhole (Lighting) (\$ _____) Per Each	\$ _____
16135.3	6	Each	Light Standard Foundation (Standard Precast) (\$ _____) Per Each	\$ _____
16135.4	6	Each	Ground Rod 8-ft Long (\$ _____) Per Each	\$ _____
16135.5	120	Linear Feet	Wire Type 7 No. 10 General Purpose (\$ _____) Per Linear Foot	\$ _____
16135.6	60	Linear Feet	Wire Type 7 No. 4 General Purpose (\$ _____) Per Linear Foot	\$ _____
16135.7	650	Linear Feet	Wire Type 7 No. 1/0 General Purpose (\$ _____) Per Linear Foot	\$ _____

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
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FORM FOR GENERAL BID  
00300ADD1-17

Item #	Estimated Quantity	Units	<u>ITEM DESCRIPTION</u> Description of the Work and Unit Price Bid Written in Numbers	Amount
16135.8	6	Each	Remove and Relocate Existing Street Light (\$ _____) Per Each	\$ _____

Bidder's Name \_\_\_\_\_  
 New St/Concord Ln  
 Addendum 1

FORM FOR GENERAL BID  
 00300ADD1-18

total amount of **BID** items 1060.1 through 16135.8 based on Engineer's estimate of quantities:

---

(Amount in Words)

---

(Amount in Figures)

Also write the amount of the BID, in words and numbers, in the spaces provided for the on Page 00300-2 of the Form for General Bid.

**The Basis of Award will be to the lowest responsible and eligible bidder at the sole discretion of the City of Cambridge.**

- I. The undersigned agrees if selected as General Contractor, within ten (10) working days after presentation thereof by the City, the Contractor will:
1. Execute a contract in accordance with the terms of this general bid;
  2. Furnish a performance bond and a labor and materials or payment bond;
    - a. of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the City;
    - b. in the sum of one hundred percent of the contract price;
    - c. premiums for each are to be paid by the General Contractor.
  3. provide an Insurance certificate specifying the City of Cambridge; Massachusetts Water Resources Authority; Kleinfelder; MWH Americas, Inc; and the owners of private properties requiring right-of-entries (ROEs) listed in Appendix G as **Additional Insured**, complying with the Insurance requirements set forth herein in the General Terms and Conditions of the contract, Article 8, or as otherwise required.
- J. Bidder understands that the Owner reserves the right to reject any or all bids and to waive any minor informalities in the bidding prices.
- K. Total amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.
- L. The bidder hereby certifies it shall comply with the minority workforce ratios and specific action contained in the Cambridge Employment Plan, the Cambridge Responsible Employer Plan, the Living Wage Ordinance, and the Americans with Disabilities Act. The contractor receiving the award of the contract shall be required to obtain from each of its subcontractors and submit to the contracting or administering agency prior to the performance of any work under said contract a certification by said subcontractor, regardless of tier, that it will comply with same.

Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-19

- M. The bidder agrees that this bid shall be good and may not be withdrawn for a period of **90** days after the scheduled closing time for receiving bids.
- N. The time period for holding bids, where Federal Approval is required, is 90 days, Saturdays, Sundays and holidays excluded after Federal approval.
- O. The bid security attached in the sum of \_\_\_\_\_  
 \_\_\_\_\_ (\$ \_\_\_\_\_) is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.
- P. The undersigned certifies that it possesses the skill, ability and integrity necessary for the faithful performance of the work; that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and who, where the provisions of section 8B of chapter 29 apply, shall have been determined to be qualified thereunder; and who obtains within 10 days of the notification of contract award the security by bond required under section 29 of chapter 149; provided that for the purposes of this section the term "security by bond" shall mean the bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority.
- Q. The undersigned bidder hereby certifies he/she will comply with the specific affirmative action steps contained in the EEO/AA provisions of this Contract, including compliance with the Disadvantaged Business Enterprise provisions as required under these contract provisions. The contractor receiving the award of the contract shall incorporate the EEO/AA provisions of this contract into all subcontracts and purchase orders so that such provisions will be binding upon each subcontractor or vendor.
- R. The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the "person" shall mean any natural person, joint venture, business, partnership, corporation, or other business or legal entity.
- S. Pursuant to M.G.L.c.62C, s49A, the undersigned certifies under the penalties of perjury that the said undersigned, to his/her best knowledge and belief, has filed all state tax returns, paid all State Taxes required under law, and complied with all of the laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.
- T. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth

Bidder's Name \_\_\_\_\_  
 New St/Concord Ln  
 Addendum 1

under the provisions of Section Twenty-Nine F of Chapter Twenty-Nine, or any other applicable debarment provisions of any other Chapter of the General Laws or any rule or regulation promulgated thereunder; and is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

- U. Bidders must fully comply with Subpart C of 2 CFR Part 180 and 2 CFR Part 1532, entitled Responsibilities of Participants Regarding Transactions (Doing Business with Other Persons). Contractors, subcontractors, or suppliers that appear on the Excluded Parties List System at [www.epls.gov](http://www.epls.gov) are not eligible for award of any contracts funded by the Massachusetts State Revolving Fund.

Date \_\_\_\_\_

BY: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name of General Bidder)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
(City and State)

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Bidder's Name \_\_\_\_\_  
New St/Concord Ln  
Addendum 1

FORM FOR GENERAL BID  
00300ADD1-22

CITY OF CAMBRIDGE, MASSACHUSETTS

**BID BOND**

We, the undersigned \_\_\_\_\_ as Principal, and \_\_\_\_\_ as Surety, are hereby held and firmly bound unto the CITY OF CAMBRIDGE, a municipality in the County of Middlesex and Commonwealth of Massachusetts, in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), for the payment of which, well and truly to be made. We hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

THE CONDITION OF THE ABOVE OBLIGATION is such that whereas the Principal has submitted to the City of Cambridge, Massachusetts, a certain bid attached hereto and hereby made a part hereof to enter into a contract in writing for the **Cambridge, Massachusetts, Concord Lane and New Street Sewer and Pump Station Improvements Project.**

If the Principal fails to perform their agreement to execute a contract and furnish a performance bond and a labor and materials or payment bond as stated in their bid in accordance with the applicable state statute or fails in all other respects to perform the agreement created by the acceptance of said bid, their bid deposit shall become and be the property of the City of Cambridge as liquidated damages.

If said Bid shall be rejected because of death, disability, bona fide clerical or mechanical error of a substantial nature, or other similar unforeseen circumstances affecting the Principal, their bid bond shall be returned to their.

The Surety, for value received, hereby agrees that its obligations and its bond shall in no way be impaired or affected by an extension of the time in which the City of Cambridge may accept such bid and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

CONTRACTOR AS PRINCIPAL

SURETY

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Name and Title:

\_\_\_\_\_  
Name and Title:

SEAL

SEAL

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SECTION 00311  
MBE FORMS (CITY OF CAMBRIDGE)

**MINORITY BUSINESS ENTERPRISE REQUIREMENTS**

GENERAL

On June 30, 1983 the City of Cambridge put into effect a city wide Minority Business Enterprise (MBE) Program. To comply with the requirements of this program, a general contractor must submit the appropriate MBE Forms with its bid. The process is explained below. Failure to meet the requirements may result in automatic disqualification of the bidder. Upon request or upon its own initiative, the City may grant an extension of time for submission of the appropriate MBE Forms. Extensions shall be granted only upon a finding by the City that the bidder's failure to submit the appropriate MBE forms was excusable.

PROCEDURE

Steps you should take to comply with the City's MBE requirements are as follows:

1. Secure a copy of the State Office Minority and Women Business Assistance (SOMWBA) Certified Minority/Women Business Directory. Only MBE firms approved by SOMWBA will be accepted by the City of Cambridge.
2. Attempt to develop a bid that includes at least ten percent (10%) of your total bid price in the form of work subcontracted to (or materials purchased from) one or more Minority Businesses.
3. To make the attempt to secure at least 10% Minority business participation, you (the General Contractor) must contact as many of the subcontractors or suppliers in the SOMWBA directory as necessary. Please note that MBE FORM #3 – CONTRACT REQUEST-FOR-EXTENSION and MBE FORM #4 – INFORMATION ON UNSUCCESSFUL MBE CONTACT require you to provide a list of each firm contacted and other related information.
4. If you are successful in securing 10% or more Minority Businesses participation, you must:
  - A. Complete and submit MBE FORM #1 – CONTRACTOR CERTIFICATION OF COMPLIANCE.
  - B. Have your participating Minority Business each fill out MBE FORM #2 – LETTER OF INTENT TO PARTICIPATE, to be submitted with your bid.
5. If, after contacting all SOMWBA-approved firms in the trades or materials categories you should include in your bid, you have not been able to secure 10% Minority business participation, then complete and submit with your bid MBE FORM #3 –

CONTRACTOR REQUEST FOR EXTENSION and MBE FORM #4 –  
INFORMATION ON UNSUCCESSFUL MBE CONTRACT.

If you have any questions about the above steps, please call Duane Brown, Minority Business Compliance Officer, at 617-349-4332.

**MINORITY BUSINESS ENTERPRISE PROGRAM COMPLIANCE DETAILS**

PERCENTAGE OF MBE PARTICIPATION - percentage of MBE participation shall be that percentage of the total bid price represented by the amount to be paid to MBE(s). The General Bidder's compliance with the percentage requirement shall continue to be determined by reference to the above-described method throughout the term of the contract, even though the actual project price may be greater or less than the bid price. The General Bidder shall submit to the Minority Business Compliance Officer signed copies of its subcontracts with all MBE's involved in meeting the percentage of Minority Business Enterprise Requirement.

ROLE OF THE MBE REVIEW COMMITTEE - The MBE Review Committee shall have referred to it by the Purchasing Agent and the Minority Business Compliance Officer all questions of interpretation of the MBE Program that arise during the Program's operation. The MBE Review Committee shall have the responsibility and authority to respond with binding answers to these questions. It also has the responsibility and authority to recommend to the City Manager whatever improvements it believes can be made in the program, based on operating experience.

CHANGES OF MBE STATUS - Any change or substitution of the officers or stockholders in a participating MBE company that reduces the minority ownership or control to less than the requisite percentage will immediately rescind the MBE designation given by SOMWBA. The General Bidder (Prime Contractor) shall immediately notify the Minority Business Compliance Officer upon learning of such a change in MBE status. In this event, the Prime Contractor shall submit to the Minority Business Compliance Officer a revised Contractor Certification of Compliance with MBE Requirements, showing how the lost MBE participation will be replaced.

SANCTIONS

- A. If the Prime Contractor does not comply with the terms of the Minority Business Enterprise requirements of the contract, the City may (1) suspend any payment for the activity that should have been performed by the MBE pursuant to the contract, or (2) require specific performance of the Prime Contractor's obligation by requiring the Prime Contractor to subcontract with any MBE for any contract or specialty item at the contract price established for that item in the proposal submitted by the Prime Contractor.
- B. To the extent that the Prime Contractor has not complied with the MBE requirements of the contract, the City may retain an amount determined by multiplying the bid price of this contract by the required percentage of MBE participation, less the amount of paid to MBEs for work performed under the contract and any payments already suspended under "A" above.

- C. In addition, or as an alternative, to the remedies under "A" and "B" above, the City may suspend, terminate or cancel this contract, in whole or in part, or may call upon the Prime Contractor's surety to perform all terms and conditions in the contract, unless the Prime Contractor is able to demonstrate its compliance with the MBE requirements, and may further deny to the Prime Contractor the right to participate in any future contracts awarded by the City for a period of up to three years.
- D. In any proceeding involving the imposition of sanctions by the City, no sanctions shall be imposed if the City finds that the Prime Contractor has taken every possible measure to comply with MBE requirements, or that some other justifiable reason exists for waiving the MBE requirements in whole or in part.
- E. Any bidder or contractor shall provide such information as is necessary in the judgment of the City to ascertain its compliance with the MBE Requirements.
- F. No sanctions shall be imposed by the City except in an adjudicatory proceeding under Chapter 30A of the General Laws.
- G. A Prime Contractor shall have the right to request suspension of any sanctions imposed by the City upon showing that it is once again in compliance with the MBE Requirements.

**FORM  
1  
M.B.E.**

**CONTRACTOR CERTIFICATION OF COMPLIANCE**

Minority Business Enterprise Requirements

Name and Address of Participating Minority Bus. Enterprise	Name of Participant	Dollar Value
1.		
2.		
3.		
4.		
5.		
6.		
7.	GRAND TOTAL FOR MINORITY BUSINESS COMMITMENT	
	\$ _____	
8.	PERCENTAGE MBE PARTICIPATION (Line 7 Divided by total bid price) _____%	

The below-signed bidder certifies that it will honor the above Minority Business Enterprise Commitment and that it understands that a breach of this commitment constitutes a breach of the contract.

\_\_\_\_\_  
Date

\_\_\_\_\_  
General Contractor

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_

\_\_\_\_\_  
Business Address

**LETTER OF INTENT TO PARTICIPATE**

Minority Business Enterprise Requirements

TO: \_\_\_\_\_  
(Name of General Bidder)

1. My company intends to perform work under the above-identified contract as:

- \_\_\_\_\_ an individual
- \_\_\_\_\_ a partnership
- \_\_\_\_\_ a corporation
- \_\_\_\_\_ a joint venture with \_\_\_\_\_
- \_\_\_\_\_ other (explain) \_\_\_\_\_

2. My company has been certified by the State Office of Minority and Women Business Assistance (SOMWBA) as a Minority Business Enterprise and is listed as such in the most recently issued SOMWBA Minority/Women Business Directory. I hereby certify that my company's qualification as a Minority Business Enterprise have not changed since its application was submitted to SOMWBA. I further certify that my company will give immediate notification in writing to both SOMWBA and your Company in the event that its minority ownership, control, or management should change.

3. My company understands that if your company is awarded the contract, your company intends to enter into an agreement with my company to perform the activity described below for the prices indicated. My firm also understands that your firm, as General Bidder, will make substitutions and quantity changes only as allowed or required by the provisions of the contract with the City of Cambridge.

ITEM NO.	DESCRIPTION OF MY COMPANY'S ACTIVITY*	QUANTITY	UNIT PRICE	AMOUNT

TOTAL AMOUNT \$ \_\_\_\_\_

\* Description of activity should include notations such as "Labor Only", "Material Only", etc.

\_\_\_\_\_  
Date

\_\_\_\_\_  
MBE Name

\_\_\_\_\_  
MBE Authorized Signature

\_\_\_\_\_

\_\_\_\_\_  
Business Address

**FORM  
3  
M.B.E.**

**CONTRACTOR REQUEST FOR EXTENSION**

Minority Business Enterprise Requirements

CONTRACTOR REQUEST-FOR-EXTENSION OF MINORITY BUSINESS ENTERPRISE  
REQUIREMENTS

The below signed General Bidder certifies that it made a good faith effort to develop the required ten percent (10%) Minority Business Enterprise participation in this contract, but was able to develop only \_\_\_\_\_%.

The below-signed General Bidder further certifies that it contacted the below-listed firms from the SOMWBA MINORITY/WOMEN BUSINESS DIRECTORY that said contacts were bona fide efforts to develop the required Minority Business Enterprise participation in the above-identified contract but were unsuccessful due to circumstances beyond the control of the General Bidder; and that the information given on the following pages about each contract has made is accurate and complete.

MBE Companies Contacted

- |          |           |
|----------|-----------|
| 1. _____ | 6. _____  |
| 2. _____ | 7. _____  |
| 3. _____ | 8. _____  |
| 4. _____ | 9. _____  |
| 5. _____ | 10. _____ |

The below-signed General Bidder therefore requests that the City of Cambridge grant an extension of ten working days in order to provide the General Bidder an opportunity to secure the required percentage of Minority Business participation.

\_\_\_\_\_  
Date

\_\_\_\_\_  
General Contractor

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Business Address

**FORM  
4  
M.B.E.**

**INFORMATION ON UNSUCCESSFUL M.B.E. CONTACT**  
Minority Business Enterprise Requirements

Additional copies of this information form shall be prepared by the General Bidder in the quantity necessary to comply with bidding requirements.

ITEM NUMBER ON REQUEST-FOR-EXTENSION \_\_\_\_\_

NAME OF MBE COMPANY CONTACTED \_\_\_\_\_

ADDRESS OF COMPANY CONTACTED \_\_\_\_\_

TELEPHONE NO. OF COMPANY CONTACTED \_\_\_\_\_

DATE OF INITIAL CONTACT \_\_\_\_\_

HOW WAS CONTACT MADE? (Check appropriate answer)      TELEPHONE \_\_\_\_\_  
IN-PERSON \_\_\_\_\_

SUB-CONTRACT WORK OFFERED TO THIS MBE COMPANY \_\_\_\_\_

RESULT OF CONTACT (check appropriate answer)      MBE Firm Declined Job \_\_\_\_\_;  
MBE Firm offered to do job at price of \$ \_\_\_\_\_, which was determined by our company to  
be too high \_\_\_\_\_; MBE offered to do the job at a price of \$ \_\_\_\_\_, which was  
satisfactory, but the MBE company was judged by our company to be unqualified for the job \_\_\_\_\_

NAME AND TITLE OF THE MBE COMPANY OFFICER WHO CAN VERIFY ABOVE  
INFORMATION AS TO MBE COMPANY'S RESPONSE  
\_\_\_\_\_

It is certified herewith by the below-signed officer of the General Bidder that the above information is accurate and complete.

\_\_\_\_\_  
Date

\_\_\_\_\_  
General Contractor

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_

\_\_\_\_\_  
Business Address

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**SECTION 00312**

**NOTARIZED STATEMENT OF BIDDER'S QUALIFICATIONS**

**THIS FORM MUST BE SUBMITTED WITH YOUR BID**

**THIS STATEMENT MUST BE NOTARIZED**

**BIDDER SHALL PROVIDE CLEAR AND CONCISE RESPONSES TO ALL QUESTIONS IN THIS STATEMENT. BIDDER SHALL USE THIS FORM, OR A FORM WITH THE SAME FORMATTING AS THE CITY'S STATEMENT OF BIDDER QUALIFICATIONS.**

The bidder must provide references including telephone number and contact names in response to the questions in this section. References will be used in determining the responsibility of the bidder. The city reserves the right to use itself as a reference.

1. The names, titles, residences of all persons and parties interested in this Proposal as principals are as follows:

Note: Give the first and last names in full. In the case of corporation, give names of officers and directors; in the case of a partnership, give names of all partners.

IMPORTANT: Be sure residences are listed below.

Name	Title	Home Address
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

2. When organized.

\_\_\_\_\_

3. If a corporation, where incorporated.

\_\_\_\_\_

Bidder's Name: \_\_\_\_\_

4. Indicate the general nature of work normally performed by your company.

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5. Has your present organization ever failed to complete any work awarded to it? If so, state when, where, and why.

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6. Has your present organization ever defaulted on a contract? If so, state when, where, and why.

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7. Qualification Requirements – As a minimum, the Bidder must demonstrate that it is qualified to bid on this Contract by adequately providing responses to the following qualification requirements:

**7A Qualification Requirement for Large Utilities in Urban Setting:**

Within the last 10 years, the Contractor must have successfully completed at least 3 projects involving, as a minimum, the construction of water mains, sanitary sewers, pump stations, storm drains, and precast concrete structures, in streets and sidewalks within a crowded urban setting; including traffic and pedestrian management and utility relocation and coordination. The dollar value of the three (3) projects must be at least 3 million dollars each. Provide the following details:

**Project #7A-1:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done: \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
Name of Owner's Representative (for Reference): \_\_\_\_\_  
Owner's Representative's Current Telephone #: \_\_\_\_\_  
Dollar Value of Contract \_\_\_\_\_  
Location of urban setting impacted by project: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project # 7A-2:**

Project Name: \_\_\_\_\_  
Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_  
Name and address of Owner for whom the work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_  
Owner's Representative's Current Telephone #: \_\_\_\_\_  
Dollar Value of Contract: \_\_\_\_\_  
Location of urban setting impacted by project: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bidder's Name: \_\_\_\_\_

**Project # 7A-3:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:  
\_\_\_\_\_  
\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

Location of urban setting impacted by project: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**7B Qualification Requirement for Traffic Management in Congested Urban Setting:**

Within the last 10 years, the Contractor must have successfully completed at least 3 projects involving, as a minimum, work on state/city highways in an urban setting with heavy volumes of motor vehicle, bicycle, pedestrian and handicap traffic that required rerouting of traffic and coordination with state and/or city police, fire, parking, traffic and handicap compliance departments. The dollar value of the three (3) projects must be at least 3 million dollars each. Provide the following details:

**Project #7B-1:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:  
\_\_\_\_\_  
\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

State/City highway and location of urban setting impacted by project:  
\_\_\_\_\_

Description of work performed that demonstrates that the above requirements have

Bidder's Name: \_\_\_\_\_

been fulfilled:

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**Project #7B-2:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

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Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

State/City highway and location of urban setting impacted by project:

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Description of work performed that demonstrates that the above requirements have been fulfilled:

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**Project # 7B-3:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

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Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

State/City highway and location of urban setting impacted by project:

\_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**7C Qualification Requirement for Community Sensitivities:**

Within the last 10 years, the Contractor must have successfully completed at least 3 projects that demonstrated sensitivity to community issues, which could include but is not limited to designation of a community liaison, demonstration of work coordination with a community, and attendance and participation at community meetings. The dollar value of the three (3) projects must be at least 3 million dollars each. Provide the following details:

**Project #7C-1:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Project #7C-2:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

Bidder's Name: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
Name of Owner's Representative (for Reference): \_\_\_\_\_  
Owner's Representative's Current Telephone #: \_\_\_\_\_  
Dollar Value of Contract: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project #7C-3:**

Project Name: \_\_\_\_\_  
Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_  
Name and address of Owner for whom the work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_  
Owner's Representative's Current Telephone #: \_\_\_\_\_  
Dollar Value of Contract: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**7D Qualification Requirement for Support of Excavations and Vibration Monitoring:**

Within the last 10 years, the Contractor must have successfully completed at least 3 projects involving, as a minimum, the design and installation of temporary earth support system similar in length, depth and method of installation to that required by this Contract as well as involving Vibration Monitoring similar to that required by this Contract. The dollar value of the three (3) projects must be at least 3 million dollars each. Provide the following details:

**Project #7D-1:**

Project Name: \_\_\_\_\_  
Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

Name and address of Owner for whom the work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project #7D-2:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project #7D-3:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_  
Dollar Value of Contract: \_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

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**7-E Qualification Requirement for Reconstruction of Roadways and Sidewalks:**

Within the last 10 years, the Contractor must have successfully completed at least 3 projects involving, as a minimum, the reconstruction of municipal roadways and Architectural Access Board compliant sidewalks, line striping, surface improvements and landscaping. The dollar value of the three (3) projects must be at least 1 million dollars each. Provide the following details:

**Project #7E-1:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:

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---

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

State/City highway and name of location of compliant sidewalk work:

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Description of work performed that demonstrates that the above requirements have been fulfilled:

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Bidder's Name: \_\_\_\_\_

**Project # 7E-2:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:  
\_\_\_\_\_  
\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

State/City highway and name of location of compliant sidewalk work:  
\_\_\_\_\_  
\_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project # 7E-3:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and address of Owner for whom the work was done:  
\_\_\_\_\_  
\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Current Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

State/City highway and name of location of compliant sidewalk work:  
\_\_\_\_\_  
\_\_\_\_\_

Description of work performed that demonstrates that the above requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bidder's Name: \_\_\_\_\_

**8. Qualification Requirement for Project Manager:**

Provide the name of the Contractor's Project Manager that will be assigned to the proposed Contract. The Project Manager must have a minimum of 10 years construction experience. The Project Manager must also have demonstrated the ability to manage construction budgets, to prepare schedules, and to perform contract administration for three (3) projects of at least 3 million dollars each in value.

Name: \_\_\_\_\_

**Project #8-1:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and Address of Owner for Whom the Work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Telephone #: \_\_\_\_\_

Dollar Value of Contract : \_\_\_\_\_

Description of work that demonstrates minimum experience requirements have been fulfilled:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Bidder's Name: \_\_\_\_\_

**Project #8-2:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and Address of Owner for Whom the Work is being done:  
\_\_\_\_\_  
\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Telephone #: \_\_\_\_\_

Dollar Value of Contract : \_\_\_\_\_

Description of work that demonstrates minimum experience requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project #8-3**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and Address of Owner for Whom the Work is being done:  
\_\_\_\_\_  
\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Telephone #: \_\_\_\_\_

Dollar Value of Contract : \_\_\_\_\_

Description of work that demonstrates minimum experience requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bidder's Name: \_\_\_\_\_

**9. Qualification Requirement for Project Superintendent:**

Provide the name of the Contractor's a fulltime On-Site Superintendent that will be assigned to the proposed Contract. The Project Superintendent must have a minimum of 10 years construction experience similar in size, nature and complexity as the proposed project; demonstrated ability to manage at least three (3) projects of at least 3 million dollars each; manage construction budgets, schedule, and crew coordination; have demonstrated experience in traffic management in heavily traveled streets; have experience with community relations with local businesses and residents and has coordinated with utilities. Provide details on 3 projects on which the proposed person has worked as On-Site Superintendent and that demonstrate that these requirements have been fulfilled:

Name: \_\_\_\_\_

**Project #9-1:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and Address of Owner for Whom the Work was done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Telephone #: \_\_\_\_\_

Dollar Value of Contract : \_\_\_\_\_

Description of work that demonstrates minimum experience requirements have been fulfilled:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project #9-2:**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and Address of Owner for Whom the Work is being done:

\_\_\_\_\_

Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Telephone #: \_\_\_\_\_

Dollar Value of Contract : \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

Description of work that demonstrates minimum experience requirements have been fulfilled:

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**Project #9-3**

Project Name: \_\_\_\_\_

Start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

Name and Address of Owner for Whom the Work is being done:

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Name of Owner's Representative (for Reference): \_\_\_\_\_

Owner's Representative's Telephone #: \_\_\_\_\_

Dollar Value of Contract: \_\_\_\_\_

Description of work that demonstrates minimum experience requirements have been fulfilled:

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10. List all projects for which your organization has received a Notice of Intent to Award or a Notice to Proceed and that your organization expects to perform during the Year 2015. Rank the list according to decreasing dollar value of work to be done in the Year 2015. On the following "TABLE OF PROJECTED WORK LOAD", indicate the first 10 projects from that list and provide information on the name of the project, the type of project, owner of the project, dollar value of work, and the estimated completion date. Under Project No. 11 on the following TABLE, indicate the number of projects and the sum of the dollar value of work that you expect to perform in the Year 2015 for all the remaining projects in the list.

Bidder's Name: \_\_\_\_\_

TABLE OF PROJECTED WORK LOAD

<u>Proj. No.</u>	<u>Name and Type of Project</u>	<u>Owner of Project</u>	<u>Dollar value of work to be done in YR 2015</u>	<u>Estimated Completion Date of Project</u>
<u>1</u>				
<u>2</u>				
<u>3</u>				
<u>4</u>				
<u>5</u>				
<u>6</u>				
<u>7</u>				
<u>8</u>				
<u>9</u>				
<u>10</u>				
<u>11</u>	Enter the number of remaining project>>		Enter cumulative dollar value of remaining projects:  _____	

Bidder's Name: \_\_\_\_\_

11. Describe equipment available for the performance of this contract by setting forth make, model and year, size, number, and type for each such piece of equipment (a) owned, (b) currently rented or (c) to be rented. Bidder must set forth description of all equipment it plans to use whether rented or owned.

(a) Owned

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---

(b) Currently Rented

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(c) To Be Rented

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12. Background and experience of the principal members of your organization, including the officers.

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Bidder's Name: \_\_\_\_\_

13. Give below the name and address of one or more banks which have information that would enable them to advise regarding the financial ability of your company.

Name of Bank

Address

Telephone #

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14. Federal Identification No. and Dun and Bradstreet No.

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15. Name, Signature, and Title of officer preparing this proposal.

Name \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

16. The undersigned hereby authorizes and requests any person, firm or corporation to furnish any information requested by the Cambridge Department of Public Works in verification of the recitals comprising this Statement of Bidder's Qualifications.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_

(Signature)

Tel. No. \_\_\_\_\_

BY \_\_\_\_\_

Title \_\_\_\_\_

State of \_\_\_\_\_)

County of \_\_\_\_\_)

\_\_\_\_\_, being duly sworn,

deposes and says that he/she is \_\_\_\_\_ of

\_\_\_\_\_

(Name of Organization)

and that the answers to the foregoing questions and all statements therein contained are true and correct.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_

(Notary Public)

My commission expires on \_\_\_\_\_, 20\_\_\_\_

- END OF SECTION 00312 -

Bidder's Name: \_\_\_\_\_

SECTION 00313  
GENERAL CONTRACTOR'S CERTIFICATION

A contractor will not be eligible for award of a contract unless such contractor has submitted the following certification, which is deemed a part of the resulting contract:

**GENERAL CONTRACTOR'S CERTIFICATION**

\_\_\_\_\_ (General Contractor) certifies that:

1. it shall obtain from each of its subcontractors and submit to the contracting or administering agency prior to the performance of any work under said subcontract a certification by each subcontractor, regardless of tier, that it will comply with the Minority/Women/Resident workforce ratio;
2. it read, understands and shall comply with the Minority/Women/Resident hiring requirements set forth in the Cambridge Employment Plan, Cambridge Municipal Code §2.66.060, et seq.;
3. it is aware that failure to comply with the Cambridge Employment Plan will result in, at minimum, the following: 1) it will be ineligible to bid for future contracts with the City of Cambridge, and 2) the City of Cambridge will notify DCAM of such failure which may affect the contractor's future qualification to bid for public contracts throughout the Commonwealth;
4. it has read, understands and shall comply with all the pertinent provisions of the Americans with Disabilities Act and will be subject to sanctions for failure to do so;
5. it intends to use the following listed construction trades in the work under contract.

\_\_\_\_\_  
\_\_\_\_\_

Signed under the penalties of perjury.

\_\_\_\_\_  
Signature of authorized representative of contractor

\_\_\_\_\_  
Print name of authorized representative of contractor

\_\_\_\_\_  
Dated

**Submit this form with your bid**

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SECTION 00315  
PROJECTED WORKFORCE CERTIFICATION

**THIS FORM MUST BE SUBMITTED WITH YOUR BID**

PROJECTED WORKFORCE CERTIFICATION

I, \_\_\_\_\_

Certify that the following is my projected workforce for this contract:

GENERAL CONTRACTOR	ESTIMATED # OF NEW HIRES

SUBTRADE	ESTIMATED # OF NEW HIRES

Signed under penalties of perjury,

\_\_\_\_\_  
General Contractor

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SECTION 00316  
CREP GENERAL CONTRACTOR'S CERTIFICATION FORM

**CAMBRIDGE RESPONSIBLE EMPLOYER PLAN**

GENERAL CONTRACTOR'S CERTIFICATION - BID FORM

\_\_\_\_\_ hereby certifies that it, (Name of General Bidder)  
and all its subcontractors who are not filed sub bidders shall:

- (1) comply with the Cambridge Employment Plan as it currently exists and as it may be, from time to time, amended, and specifically shall comply with the worker hours requirements of §2.66.060(A);
- (2) comply with the obligations established under M.G.L. c.149 and G.L. c30§39M to pay the appropriate lawful prevailing wage rates to its employees;
- (3) furnish, at its expense, hospitalization and medical benefits for all its employees employed on the project and/or coverage at least comparable in value to the hospitalization and medical benefits provided by the health and welfare plans in the applicable craft recognized by M.G.L. c.149, §26 and G.L. c30§39M in establishing minimum wage rates;
- (4) maintain appropriate industrial accident insurance coverage for all its employees employed on the project in accordance with M.G.L. c.152;
- (5) properly classify employees as employees rather than independent contractors and treat them accordingly for purposes of workers' compensation insurance, unemployment taxes, social security taxes and income tax withholding; and
- (6) certify under oath and in writing on a weekly basis for the entire duration of its work on the project, that it is in compliance with the above obligations.

Signed under the penalties of perjury. \_\_\_\_\_ (date)

\_\_\_\_\_  
Signature of authorized representative of contractor

\_\_\_\_\_  
Print name of authorized representative of contractor

**THIS CERTIFICATE APPLIES ONLY TO GENERAL BIDS OVER \$100,000 INCLUDING  
ALL ALTERNATES, IF ANY.**

**RETURN THIS FORM WITH YOUR BID**

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SECTION 00320  
CREP SUBCONTRACTOR CERTIFICATION FORM  
**CAMBRIDGE RESPONSIBLE EMPLOYER PLAN  
NON-FILED SUB-CONTRACTOR'S CERTIFICATION - BID FORM**

\_\_\_\_\_ hereby certifies that it shall:  
(Name of Sub-Contractor)

(1) comply with the Cambridge Employment Plan as it currently exists and as it may be, from time to time, amended, and specifically shall comply with the worker hours requirements of §2.66.060(A);

(2) comply with the obligations established under M.G.L. c.149 and G.L. c30§39M to pay the appropriate lawful prevailing wage rates to its employees;

(3) furnish, at its expense, hospitalization and medical benefits for all its employees employed on the project and/or coverage at least comparable in value to the hospitalization and medical benefits provided by the health and welfare plans in the applicable craft recognized by M.G.L. c.149, §26 and G.L. c30§39M in establishing minimum wage rates;

(4) maintain appropriate industrial accident insurance coverage for all its employees employed on the project in accordance with M.G.L. c.152;

(5) properly classify employees as employees rather than independent contractors and treat them accordingly for purposes of workers' compensation insurance, unemployment taxes, social security taxes and income tax withholding; and

(6) certify under oath and in writing on a weekly basis for the entire duration of its work on the project, that it is in compliance with the above obligations.

Signed under the penalties of perjury. \_\_\_\_\_(date)

\_\_\_\_\_  
Signature of authorized representative of contractor

\_\_\_\_\_  
Print name of authorized representative of contractor

**THIS CERTIFICATE APPLIES ONLY TO FILED SUBBIDS \$25,000 AND OVER -  
INCLUDING ALL ALTERNATES, IF ANY.**

**RETURN THIS FORM WITH YOUR BID**

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SECTION 00322  
CORI COMPLIANCE FORM

**CORI COMPLIANCE FORM**

Persons and businesses supplying goods and/or services to the City of Cambridge (“Vendors”), who are required by law to perform CORI checks, are further required by Section 2.112.060 of the Cambridge Municipal Code to employ fair policies, practices and standards relating to the screening and identification of persons with criminal backgrounds through the CORI system. Such Vendors, when entering into contracts with the City of Cambridge, must affirm that their policies, practices and standards regarding CORI information are consistent with the policies, practices and standards employed by the City of Cambridge as set forth in the City of Cambridge CORI Policy (“CORI Policy”) attached hereto.

CERTIFICATION

The undersigned certifies under penalties of perjury that the Vendor employs CORI related policies, practices and standards that are consistent with the provisions of the attached CORI Policy. **All Vendors must check one of the three lines below.**

1. \_\_\_\_\_ CORI checks are not performed on any Applicants.
2. \_\_\_\_\_ CORI checks are performed on some or all Applicants. The Vendor, by affixing a signature below, affirms under penalties of perjury that its CORI policies, practices and standards are consistent with the policies, practices and standards set forth in the attached CORI Policy.
3. \_\_\_\_\_ CORI checks are performed on some or all Applicants. The Vendor’s CORI policies, practices and standards are not consistent with the attached CORI Policy. Please explain on a separate sheet of paper.

\_\_\_\_\_  
(Typed or printed name of person  
signing quotation, bid or Proposal)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
(Name of Business)

**NOTE:**

The City Manager, in his sole discretion may grant a waiver to any Vendor on a contract by contract basis.

**Instructions for Completing CORI Compliance Form:**

A Vendor should not check Line 1 unless it performs NO CORI checks on ANY applicant. A Vendor who checks Line 2 certifies that the Vendor’s CORI policy conforms to the policies, practices and standards set forth in the City’s CORI Policy. A Vendor with a CORI policy that does NOT conform to the City’s CORI Policy must check Line 3 and explain the reasons for its nonconformance in writing. Vendors, who check Line 3, will not be permitted to enter into contracts with the City, absent a waiver by the City Manager.

**This form must be submitted with your bid**

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SECTION 00323  
OSHA GENERAL CONTRACTOR CERTIFICATION FORM

**Chapter 306 of the Acts of 2004**  
**An Act Relative to the Health and Safety on Construction Projects**

GENERAL CONTRACTOR'S CERTIFICATION - BID FORM

\_\_\_\_\_ (Name of General Bidder) hereby certifies that it, and all its subcontractors who are not filed sub bidders shall:

- (1) who shall certify that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is a least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

Signed under the penalties of perjury. \_\_\_\_\_(date)

\_\_\_\_\_  
Signature of authorized representative of contractor

\_\_\_\_\_  
Print name of authorized representative of contractor

**RETURN THIS FORM WITH YOUR BID**

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SECTION 00324  
OSHA SUBCONTRACTOR CERTIFICATION FORM

**Chapter 306 of the Acts of 2004**  
**An Act Relative to the Health and Safety on Construction Projects**

NON-FILED SUBBIDDERS CERTIFICATION - BID FORM

\_\_\_\_\_ (Name of Sub Bidder) hereby certifies that  
it, and all its subcontractors who are not filed sub-bidders shall:

- (1) who shall certify that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report each employee.

Signed under the penalties of perjury. \_\_\_\_\_ (date)

\_\_\_\_\_  
Signature of authorized representative of contractor

\_\_\_\_\_  
Print name of authorized representative of contractor

**RETURN THIS FORM WITH YOUR BID**

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SECTION 00325

AMERICANS WITH DISABILITIES ACT (42 U.S.C. 12131)  
Section 504 of the Rehabilitation Act of 1973

The American with Disabilities Act ("the Act") applies to all employers of fifteen or more employees. All Contractors that are subject to the Act must comply with its provisions. In further compliance with the Act, all Contractors who enter into contracts with the City are prohibited from discrimination against the City's employees, regardless of the size of the Contractor.

The Act protects against discrimination on the basis of "disability", which is defined as a physical or mental impairment that substantially limits at least one "major life activity"; discrimination against a person having a history or has a record of such impairment; and discrimination against an individual regarded - even if inaccurately - as having such an impairment. The Act also expressly prohibits job discrimination that is based on an individual's relationship or association with a disabled person.

The bidder shall not discriminate against any qualified employee or job applicant with a disability and will make the activities, programs and services covered by any contract awarded through this procurement readily accessible to and usable by individuals with disabilities. To be qualified for a job, or to avail oneself of the bidder's services, the individual with the disability must meet the essential eligibility requirements for receipt of the bidder's services or participation in the bidder's programs or activities with or without: 1) reasonable modifications to the bidder's rules, policies and practices; 2) removal of architectural, communication, or transportation barriers; or, 3) provisions of auxiliary aids and services.

By submitting its bid, the bidder certifies to the City of Cambridge that it understands and will comply with all applicable provisions of the Act, including compliance with applicable provisions of Section 504 of the Rehabilitation Act of 1973, if the bidder is receiving federal funds.

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

\_\_\_\_\_  
(Print Name of person signing bid)

(Signature & Title)

END OF SECTION 00325

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SECTION 00330

**SCHEDULE OF PARTICIPATION FOR SRF CONSTRUCTION**

**Project Title:** Concord Lane and New Street Sewer and Pump Station Improvements Project  
**Project Location:** Cambridge, MA

**Disadvantaged Minority Business Enterprise Participation in the SRF Loan Work**

Name & Address of D/MBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		

<b>Total D/MBE Commitment:</b>	\$
<b>Percentage D/MBE Participation = (Total D/MBE Commitment) / (Bid Price) =</b>	%

**Disadvantaged Women Business Enterprise Participation in the SRF Loan Work**

Name & Address of D/WBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		

<b>Total D/WBE Commitment:</b>	\$
<b>Percentage D/WBE Participation = (Total D/WBE Commitment) / ( Bid Price) =</b>	%

The Bidder agrees to furnish implementation reports as required by MassDEP to indicate the D/MBEs and D/WBE(s) which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

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

Date: \_\_\_\_\_ By: \_\_\_\_\_  
Signature

NOTE: Participation of a DBE may be counted in only their certified category; the same dollar participation cannot be used in computing the percentage of D/MBE participation and again of D/WBE participation.

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