



# City of Cambridge

## Purchasing Department

Cynthia H. Griffin  
*Purchasing Agent*

**TO:** All Bidders  
**FROM:** City of Cambridge  
**DATE:** June 10, 2013  
**RE:** File No. 6089 –Huron B (Contract 8B) Sewer Separation and Surface Improvements Project-  
Addendum No. 4

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This addendum includes the attached modifications to Specifications and Drawings.

All other details remain the same.

  
CYNTHIA H. GRIFFIN  
PURCHASING AGENT

Addendum No. 4



CITY OF CAMBRIDGE, MASSACHUSETTS  
SPECIFICATIONS  
FOR HURON B SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT

**ADDENDUM NO. 4**

June 7, 2013

**I. GENERAL**

The attention of bidders submitting proposals for the above referenced project is called to the following Addendum. The items set forth herein, whether of omission, addition, substitution, or clarification are all included in the proposed work. This addendum consists of 3 pages, numbered Pages 1 of 3 through 3 of 3.

This addendum is comprised of the following:

- Modifications to Specifications
- Modifications to Drawings

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.

**II. MODIFICATIONS TO SPECIFICATIONS**

**A. SECTION 01063 – SEQUENCING OF WORK**

1. **DELETE** the section in its entirety and **REPLACE** with **SECTION 01063ADD4 – SEQUENCING OF WORK**. Changes include sequencing of illicit connection crossings and proposed sewer and drain pipe crossings below the existing 40” and 30” water mains along Huron Avenue.

**B. SECTION 01025-MEASUREMENT AND PAYMENT**

1. **ADD** the following to section 1.1-SUMMARY, Section D, ee. Sawcutting

- C. DELETE** the following measurement and payment **Item 02685.1, 02685.1A, 02685.1B – TEMPORARY WATER BYPASS PIPING** in its entirety and **REPLACE** on pages 02685-4 with the following:

**Item 2685.1 – Temporary Water Bypass Piping**  
**Item 2685.1A – Temporary Water Bypass Piping**  
**Item 2685.1B – Temporary Water Bypass Piping**

**METHOD OF MEASUREMENT:**

Measurement for payment for Temporary Water Bypass Piping will be based on the actual linear feet of temporary water main furnished and installed under this item as shown on the Contract Drawings or as required by the Engineer.

**BASIS OF PAYMENT / INCLUSIONS:**

Payment for Temporary Water Bypass Piping will be based on the unit price bid for this item in the proposal. No measurement or payment will be made for services from the temporary mains to the property service connections. Payment shall be considered as full compensation for furnishing all labor, equipment, materials, and services for installing 2-inch, 4-inch, and 6-inch (minimum diameters) temporary water lines for individual services, for installing temporary bypass valves, for locating, excavating, where required and connecting to the temporary service lines to all users whose water service will be disrupted for more than 4-hours, for providing temporary fire protection at all hydrants which will be out of service for more than 4-hours, for constructing necessary trenches across streets and driveways to protect temporary water lines, **furnish and placement of temporary hot mix asphalt at temporary water bypass piping and temporary services**, connections to existing hydrants where required; pressure testing; providing water for pressure and leakage tests; disinfection and dechlorination as specified; sampling; laboratory analyses; emergency repairs and maintenance, for removing and disposing of all temporary water lines, and for restoring all property damaged or altered in the course of providing temporary water; clean up; and all else incidental thereto, for which separate payment is not provided under other items in the Bid Proposal.

Costs related to labor and materials required to allow flushing of the newly connected service to properties shall be included in this item. Costs to include coordination with property owners, removing existing meters, and flushing of the newly connected service lines.

**D. SECTION 02535.1-PRIVATE SERVICE LATERAL INVESTIGATIONS**

- 1. MODIFY the following measurement and payment Item 2534.1 – Private Service Lateral Investigations to Item 2535.1 – Private Service Lateral Investigation on page 02535-4 (Item renumbered from 02534.1 to 02535.1).**

1. This modification will be revised in the conformed set specifications.

**III. MODIFICATIONS TO DRAWINGS**

- A. MODIFICATION TO C-1A, C-2A, C-3A, AND C-4A: Modify last sentence in Note 1 as follows: “Prior to redirecting illicit service connections crossing under the 40” water transmission main, install clean outs and CIPP liner in lateral to property line per detail 42,**

**Addendum No. 4**

**HURON B SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT**

sheet CG-12.”

- B. **MODIFICATION TO C-5, C-6, C-7, C-25, C-26, C-27, AND C-28: Add the following to Note 1:**“Prior to redirecting illicit service connections crossing under the 24”, 30” and 40” water transmission mains, install clean outs and CIPP liner in lateral to property line per detail 42, sheet CG-12.”
  
- C. **MODIFICATION TO CG-12: Modify title of Detail 42:** “Redirecting Illicit Service Connections Adjacent to 24”, 30” and 40” Water Transmission Mains”

## SECTION 01063

### SEQUENCING OF WORK

#### PART 1 - GENERAL

##### 1.1 DESCRIPTION

- A. This Section specifies construction sequencing requirements for the following work:
1. All Work on Huron Avenue
  2. All Work on Vassal Lane
  3. All Work on Huron B neighborhood streets
  4. Private Inflow Removal work on Private Property
  5. Porous Pavement Installation
  6. Large Diameter (>18") Water Main Work

##### 1.2 SUBMITTALS

- A. The Contractor or its subcontractor shall be responsible for submitting sequencing plans for the construction activities described in Section 1.1 of this section. Each plan shall describe sequence of activities required to complete work described in Section 1.1 of this Specification Section, indicate duration and schedule of work; indicate work zones and equipment used to complete work; provide traffic and pedestrian management description and plans for each activity.

##### 1.3 RELATED SECTIONS

- A. Specification Section 01010 – SUMMARY OF WORK
- B. Specification Section 02510 – HOT MIX ASPHALT POROUS PAVING
- C. Specification Section 02534 – BUILDING INFLOW REMOVAL
- D. Specification Section 01570 – MAINTENANCE AND PROTECTION OF TRAFFIC
- E. Specification Section 02500 – PAVING AND SURFACING

##### 1.4 DEFINITIONS

- A. Street: A section of continuous roadway from its intersection with a major roadway (i.e. Huron Avenue, Fresh Pond Parkway, Brattle Street, Concord Avenue, Highland Street) to its intersection with a second major roadway.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 GENERAL SEQUENCING REQUIREMENTS

A. The Contractor shall sequence the work with the following general requirements::

- a. The Subsurface work on Huron Avenue for illicit connection removal and drain and sewer pipes crossing below the existing 40” and 30” water main from Fresh Pond Parkway to Sparks Street shall be completed first.
- b. The Subsurface work on Vassal lane shall be completed after items in section a. above have been completed.
- c. The Subsurface work on Huron Avenue not associated with crossing below the existing 40” and 30” water mains shall be completed after items in section b. above have been completed. Any work adjacent to or above the existing 40” and 30” water mains shall be coordinated with the Cambridge Water Department .
- d. The Subsurface work on Reservoir Street shall be coordinated with the Cambridge Water Department due to the work associated with the large diameter water mains
- e. The Private Inflow removal work can proceed following the subsurface work on each street
- f. Surface Restoration work shall proceed following all subsurface work on each street”

3.2 GENERAL SEQUENCING REQUIREMENTS FOR WORK ON HURON AVENUE FOR ILLICIT CONNECTION REMOVAL AND CONSTRUCTING SEWER AND DRAIN PIPES UNDER THE EXISTING 40” AND 30” WATER MAINS

A. This Section specifies construction sequencing requirements for the following work:

- a. The proposed work associated with the illicit connection removal and proposed sewer and drain pipes crossing under the 40” and 30” water mains on Huron Avenue shall be sequenced first in the Contractors schedule.
- b. The existing Illicit Connections along Huron Avenue will need to be connected to the municipal sanitary sewer system. The existing sewer laterals are below the existing 40” and 30” water mains along the south side of Huron Avenue. The Contractor shall refer to CIVIL – PLAN AND PROFILE, HURON AVE, C-1A through C-4A and CG-12 of addenda No.1 as well as all other bid documents, including all addenda that may apply to the work associated with this task.
- c. The proposed sewer and drain pipes crossing below the existing 40” and 30” water mains shall be scheduled at the same time as the illicit connection removal. The Contractor shall refer to CIVIL – PLAN AND

PROFILE, HURON AVE, C-4 through C-8, as well as all other bid documents, including all addenda that may apply to the work associated with this task

- d. Contractor shall coordinate with individual utility relocation operations – refer CIVIL UTILITY COORDINATION HURON AVENUE, U-1 through U-4 for Huron Avenue.
- e. Contractor shall establish maintenance of traffic - refer to Specification Section 01570 – MAINTENANCE AND PROTECTION OF TRAFFIC and to Traffic Management Plans.
- f. Contractor is required to coordinate with the MBTA for work within Huron Avenue. Work requires shut-down of the existing overhead catenary cables prior to work.
- g.

### 3.3 GENERAL SEQUENCING REQUIREMENTS FOR WORK ON VASSAL LANE

A. This Section specifies construction sequencing requirements for the following work:

- a. Contractor shall coordinate with individual utility relocation operations – refer CIVIL UTILITY COORDINATION VASSAL LANE, U-5 through U-6 for Vassal Lane.
- b. Contractor shall establish maintenance of traffic - refer to Specification Section 01570 – MAINTENANCE AND PROTECTION OF TRAFFIC and to Traffic Management Plans.
- c. Contractor has two (2) years to complete subsurface and surface work beginning on the date Maintenance of Traffic was established.
- d. Contractor will complete a specific utility on a Street once utility work has begun on that Street before commencing work on another utility on that Street.
- e. Contractor will progress with surface work until on a Street until substantially complete.

### 3.4 GENERAL SEQUENCING REQUIREMENTS FOR WORK ON HURON AVENUE SUBSURFACE UTILITY WORK THAT DOES NOT CROSS BELOW THE EXISTING 40" AND 30" WATER MAINS

B. This Section specifies construction sequencing requirements for the following work:

- a. Contractor shall coordinate with individual utility relocation operations – refer CIVIL UTILITY COORDINATION HURON AVENUE, U-1 through U-4 for Huron Avenue.
- b. Contractor shall establish maintenance of traffic - refer to Specification Section 01570 – MAINTENANCE AND PROTECTION OF TRAFFIC and to Traffic Management Plans.
- c. Contractor is required to coordinate with the MBTA for work within Huron Avenue. Work requires shut-down of the existing overhead catenary cables prior to work.

### 3.5 GENERAL SEQUENCING REQUIREMENTS FOR WORK ON HURON B AREA NEIGHBORHOOD STREETS

- A. This Section specifies construction sequencing requirements for the following work:
- a. Contractor shall coordinate with individual utility relocation operations – refer CIVIL UTILITY COORDINATION HURON AVENUE, U-7 through U-27.
  - b. Contractor shall establish maintenance of traffic - refer to Specification Section 01570 – MAINTENANCE AND PROTECTION OF TRAFFIC and to Traffic Management Plans.
  - c. Contractor has two (2) years to complete subsurface and surface work beginning on the date Maintenance of Traffic was established.
  - d. Contractor will complete a specific utility on a Street once utility work has begun on that Street before commencing work on another utility on that Street.
  - e. Contractor will progress with surface work until on a Street until substantially complete.

### 3.6 GENERAL SEQUENCING REQUIREMENTS FOR WORK ON PRIVATE INFLOW REMOVAL WORK ON PRIVATE PROPERTY

- A. This Section specifies construction sequencing requirements for the following work:
- a. Refer to Specification Section 02534 – BUILDING INFLOW REMOVAL
  - b. Contractor is required to meet with designated home owners 6 weeks prior to work on private property
  - c. A Right of Entry document (ROE) – written authorization is required prior to entry of private property.

### 3.7 GENERAL SEQUENCING REQUIREMENTS FOR POROUS PAVEMENT INSTALLATION

- A. This Section specifies construction sequencing requirements for the following work:
- a. Refer to Specification Section 02510 – HOT MIX ASPHALT POROUS PAVING
  - b. Refer to Specification Section 02500 – PAVING AND SURFACING
  - c. Hot Mix Asphalt Porous Pavement shall not be placed between October 31<sup>st</sup> and May 1<sup>st</sup>.
  - d. Porous pavement can be placed in 2 – 2inch layers.
  - e. No traffic loading is allowed on choker course, reservoir course and filter medium cross section in the porous pavement trench.
  - f. Contractor to control surface run-off water from entering the porous pavement trench.
  - g. Hot mix asphalt base course shall be placed prior to the hot mix asphalt

- porous pavement course.
- h. Hot mix asphalt top course shall be placed prior to hot mix asphalt porous pavement course.

3.6 GENERAL SEQUENCING REQUIREMENTS FOR LARGE DIAMETER WATER MAINS

B. This Section specifies construction sequencing requirements for the following work:

- a. For large diameter (>18") water mains, tie-ins to existing mains shall be completed at night. Contractor to coordinate with local businesses to minimize shut-down durations.

PART 4 – COMPENSATION (Not Used)

END OF SECTION 01063