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# City of Cambridge

PURCHASING DEPARTMENT

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**TO: All Bidders**

**FROM: City of Cambridge**

**DATE: May 30, 2024**

**RE: File No. 11572 – Collins Branch Library Water Infiltration Project - Addendum No. 1**

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This addendum is comprised of the following:

1. Questions and Answers
2. Modifications to Specifications
3. Pre-bid sign in sheet (attached)

**The following questions were asked and answered:**

**Question 1: Is parking available in the rear lot?**

**Response: This is a private lot. Contractor is responsible for coordinating with property Owner for permissions, which are not guaranteed.**

**Question 2: Will there be access to power and water from the building?**

**Response: Per Specification Section 015000 – Temporary Facilities and Controls Paragraph 1.14.A and 1.14.C, the Contractor may have access to exterior outlet [100 amp service] for small hand electrical tools. Distribution is by the Contractor. Additional power beyond the outlet shall be at the expense of the Contractor.**

**Question 3: Can the bathroom be used?**

**Response: The Contractor is not permitted to use the library bathroom. Contractor shall plan to have their own sanitary accommodations.**

**Question 4: Will building permit fees be waived?**

**Response: The City will be waiving fees for the permit and/or paying for the permits, as needed. The need for permits is not waived.**



**Question 5: Will the landscaping that is removed for excavation need to be replaced?**

**Response: Replanting will be the responsibility of the Owner, as needed.**

**Question 6: Is there a plan showing underground utilities?**

**Response: Per Specification Section 010100 – Summary of Work Paragraph 1.4, the Contractor is responsible for locating all existing utilities and to protect them from damage or harm. There was not utility survey completed for this project.**

**Question 7: Will furniture in the employee area be removed during construction operations?**

**Response: Furniture will be relocated by the Owner to the middle or side of the room as requested by the Contractor. Contractor shall coordinate this request at least 5 days in advance of the need.**

**Question 8: Are there dust control requirements for interior work?**

**Response: Refer to Section III. Item No. 1 of this Addendum.**

## **MODIFICATIONS TO SPECIFICATIONS**

### **1. 015600 TEMPORARY ENVIRONMENTAL CONTROLS**

- a. **DELETE** the section in its entirety and **REPLACE** it with the attached **SECTION 015600 – TEMPORARY ENVIRONMENTAL CONTROLS**. Specifically, the following changes have been made:
  - i. **ADD** Paragraph 1.2.H: “Interior dust control measures shall be in place such as, but not limited to, containing the work area to prevent dust migration beyond the immediate work area, wet cutting methods, sweeping and vacuuming to eliminate dust-causing materials.”

### **2. 010630 SEQUENCING OF WORK**

- a. **DELETE** the section in its entirety and **REPLACE** it with the attached **SECTION 010630 – SEQUENCING OF WORK**. Specifically, the following changes have been made:
  - i. **DELETE** Paragraph 3.1.C and **REPLACE** it with the following: “It is the goal of this project to be completed while the library is not in use. However, in the event the project goes longer than intended, the library may need to reopen, in which case, the Contractor shall maintain access to the library during operating hours. The Contractor shall submit an access plan that includes proposed phasing of construction activities to maintain access. The Contractor shall coordinate with library management when establishing the access plan.”



**3. 012000 GENERAL REQUIREMENTS FOR UTILITY WORK**

- a. **DELETE** the section in its entirety and **REPLACE** it with the attached **SECTION 012000 GENERAL REQUIREMENTS FOR UTILITY WORK.**

Specifically, the

following changes have been made:

- i. **DELETE** the bid items at the top of the section.
- ii. **DELETE** Part 4 – COMPENSATION in its entirety.
- iii. **ADD** “Part 4 – MEASUREMENT AND PAYMENT with the following:

**4.1 MEASUREMENT**

- A. No separate measurements will be made for the work required under this section. All costs in connection therewith shall be included in the respective lump sum price for the Water Infiltration Remediation. All preparation and incidental work necessary to accomplish the installation will be considered incidental to the Lum Sum price.

**4.2 PAYMENT**

No separate payment will be made for work required under this section. Payment will be made at the Contract lump sum prices as specified.

**ATTACHMENTS**

**Section 015600 Temporary Environmental Controls**

**Section 010630 Sequencing of Work**

**Section 01200 General Requirements for Utility Work**

**Pre-bid Sign in Sheet**

**All other details remain the same.**

**Elizabeth Unger  
Purchasing Agent**

**Addendum No. 2**



## SECTION 015600 - TEMPORARY ENVIRONMENTAL CONTROLS

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

- A. This section includes temporary environmental controls necessary for the project including dust abatement, rubbish control, sanitation, chemicals, and cultural resources. Snow removal and sweeping of streets and sidewalks are discussed in Section 015700 - MAINTENANCE AND PROTECTION OF TRAFFIC.

#### 1.2 DUST ABATEMENT AND CONTROL

- A. The Contractor shall prevent its operation from producing dust in amounts damaging to property, cultivated vegetation, or domestic animals, or causing a nuisance to persons living in or occupying buildings in the vicinity. The Contractor shall be responsible for any damage resulting from dust originating from its operations. The dust abatement measures shall be continued until the Contractor is relieved of further responsibility for the Work. Dust abatement measures shall include but not be limited to spraying water, applying calcium chloride, or placing temporary pavement on and around trenches and at work sites.
- B. During excavation of soil/fill material dust shall be controlled to limit potential spread of contaminants and potential exposure of contaminants to workers and the public.
- C. Ambient dust levels at the site shall be monitored by the Contractor prior to construction. During construction, real-time dust monitoring shall be conducted during any soil/fill handling activities. The monitoring shall consist of total dust testing using MIE, Inc. Miniram PDM-3 Dust Monitors, or like instruments. The total dust criteria at the site shall conform to the requirements of the HASP. Should fugitive dust quantities exceed twenty percent (20%) of the ambient level, the Contractor shall perform additional measures to reduce the total dust concentrations.
- D. Nuisance dust levels may be encountered during regrading activities and excavation. Dust levels shall be reduced by pre-wetting the surface soils and by establishing and maintaining clean access roads. The Contractor's Dust, Vapor, and Odor Control Plan shall describe the procedures and materials to minimize dust. The Contractor shall refer to Section 020800 - SOIL AND WASTE MANAGEMENT for the Dust, Vapor and Odor Control Plan submittal requirements. At a minimum, the Contractor shall provide clean water, free from salt, oil, and other deleterious materials.
- E. Failure to maintain positive and effective dust control may result in a suspension of the work, at no additional cost to the Owner, until dust control is addressed to the Owner's satisfaction.
- F. Areas of exposed earth to be excavated shall be lightly sprayed with water before excavation. Additional water spray may be utilized only when any indication of excessive dust is observed. The Contractor shall minimize the use of water within the limits of excavation.

G. Access roads shall be sprayed with water on a regular basis to minimize the generation of dust.

H. Interior dust control measures shall be in place such as, but not limited to, containing the work area to prevent dust migration beyond the immediate work area, wet cutting methods, sweeping and vacuuming to eliminate dust-causing materials.

### 1.3 RUBBISH CONTROL

A. During the progress of the Work, the Contractor shall keep the Site and other areas used by it in a neat and clean condition and free from any accumulation of rubbish. The Contractor shall dispose of all rubbish and waste materials of any nature occurring at the Site and shall establish regular intervals of collection and disposal of such materials and waste. The Contractor shall also keep its haul roads free from dirt, rubbish, and unnecessary obstructions resulting from its operations. Disposal of all rubbish and surplus materials shall be off the Site in accordance with local codes and ordinances governing locations and methods of disposal, and in conformance with all applicable safety laws, and to the particular requirements of Part 1926 of the OSHA Safety and Health Standards for Construction.

B. In the event that the Contractors work zone restricts municipal trash or recycling collection or makes it difficult for residents to bring trash or recycling to the street, the Contractor shall collect all trash and recycling within the work zone and transport it outside the work zone for municipal collection. Return trash and recycling receptacles back to respective properties.

### 1.4 SANITATION

A. Toilet Facilities: Fixed or portable chemical toilets shall be provided wherever needed for the use of employees. Toilets at construction job sites shall conform to the requirements of Part 1926 of the OSHA Standards for Construction.

B. Sanitary and Other Organic Wastes: The Contractor shall establish a regular daily collection of all sanitary and organic wastes. All wastes and refuse from sanitary facilities provided by the Contractor or organic material wastes from any other source related to the Contractor's operations shall be disposed of away from the Site in a manner satisfactory to the Work and in accordance with all laws and regulations pertaining thereto.

### 1.5 CHEMICALS

A. All chemicals used during project construction or furnished for project operation, whether defoliant, soil sterilant, herbicide, pesticide, disinfectant, polymer, reactant or of other classification, shall show approval of either the U.S. Environmental Protection Agency or the U.S. Department of Agriculture. Use of all such chemicals and disposal of residues shall be in strict accordance with the printed instructions of the manufacturer.

### 1.6 CULTURAL RESOURCES

A. The Contractor's attention is directed to the National Historic Preservation Act of 1966 (16 U.S.C. 470) and 36 CFR 800 which provides for the preservation of potential historical architectural, archaeological, or cultural resources (hereinafter called "cultural resources").

- B. The Contractor shall conform to the applicable requirements of the National Historic Preservation Act of 1966 as it relates to the preservation of cultural resources.
- C. In the event potential cultural resources are discovered during subsurface excavations at the site of construction, the following procedures shall be instituted:
  - 1. The Engineer will issue a Field Order requiring the Contractor to cease all construction operations at the location of such potential cultural resources find.
  - 2. Such Field Order shall be effective until such time as a qualified archaeologist can be called to assess the value of these potential cultural resources and make recommendations to the State Historic Preservation Office.
- D. If the archaeologist determines that the potential find is a bona fide cultural resource, at the direction of the State Historic Preservation Office, the Contractor shall suspend work at the location of the find under the provisions for changes contained in the General Conditions.

#### 1.7 NOISE CONTROL

- A. The Contractor shall comply with the City of Cambridge Noise Ordinance.
- B. The Contractor shall make every effort to minimize noises caused by his/her operations. Equipment shall be equipped with silencers or mufflers designed to operate with the least possible noise in compliance with State and Federal (OSHA) regulations.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

PART 4 – COMPENSATION (Not Used)

END OF SECTION 015600

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## SECTION 010630 - SEQUENCING OF WORK

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

- A. This Section specifies construction sequencing requirements for the following work:
  - 1. General sequencing requirements
  - 2. Coordination with abutting businesses and residences

#### 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 and outlined in Part 3 below. Each plan shall describe sequence of activities required to complete work, indicate duration and schedule of work; indicate work zones and equipment used to complete work; provide traffic and pedestrian management description and plans, including abutter access, for each activity.

#### 1.3 RELATED SECTIONS

- A. Specification Section 000300 – FORM FOR GENERAL BID
- B. Specification Section 010100 – SUMMARY OF WORK
- C. Specification Section 015700 – MAINTENANCE AND PROTECTION OF TRAFFIC
- D. Specification Section 024119 – SELECTIVE DEMOLITION
- E. Specification Section 033000 – CAST-IN-PLACE CONCRETE
- F. Specification Section 311000 – SITE CLEARING
- G. Specification Section 312000 – EARTH MOVING

### 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;
  - 1. Tree protection and installation of erosion controls.
  - 2. Contractor shall coordinate drop box relocation, bike rack relocation, traffic signs, and potential temporary relocation of heater/AC split unit on the exterior northern portion of the library with library management ahead of excavation and selective demolition.



3. Contractor shall complete excavation and disposal of concrete sidewalk, exterior and interior concrete stairways, and associated areaway ahead of waterproofing and sidewalk replacement and re-grading of the northern portion of the site.
4. Contractor to perform excavation of perimeter to apply waterproofing products, demolition of steel door and frame, and removal of sump pump ahead of abandoning the stairway.
5. Installation of rebar and replacing concrete to close foundation in doorway area.
6. Following the removals of the interior stairway, Contractor shall perform interior plaster, paint flooring, reconfiguration of means of egress including signage, lighting and new exterior stairs, hydraulic grouting of pipe penetrations, concrete infill of depression in floor.
7. Installation of hydraulic cementitious cant.
8. Sidewalk replacement; sidewalk expansion joint and Sika Flex 1a caulking.
9. Surface drainage improvements involving the regrading of the northern portion of the site to create a swale.
10. Installation of a waterproofing membrane at the exterior perimeter of much of the South and East sides of the building.
11. Loam and seed.

B. It is a goal of this project to minimize both the number and duration of disruptions to sidewalks in the project area. To that end, the Contractor's proposed sequence and schedule shall demonstrate that, to the maximum extent practicable, all work in a given sidewalk work zone is complete before fully reopening that segment for public use.

C. It is the goal of this project to be completed while the library is not in use. However, in the event the project goes longer than intended, the library may need to reopen, in which case, the Contractor shall maintain access to the library during operating hours. The Contractor shall submit an access plan that includes proposed phasing of construction activities to maintain access. The Contractor shall coordinate with library management when establishing the access plan.

3.7 GENERAL SEQUENCING REQUIREMENTS FOR COORDINATION WITH ABUTTING RESIDENCES AND BUSINESSES

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

1. Contractor to coordinate with abutters to minimize disturbances.
2. Contractor to maintain access to abutters and the library at all times with phasing of work. Temporary pedestrian access and pedestrian sidewalks are to be provided.

PART 4 – COMPENSATION (Not Used)

END OF SECTION 010630

SECTION 012000 - GENERAL REQUIREMENTS FOR UTILITY WORK

~~1200.1~~ ~~TEMPORARY UTILITY SUPPORT AND~~ ~~LUMP SUM~~  
~~COORDINATION~~

~~1200.2~~ ~~BIKE SHARE STATION RELOCATION~~ ~~ALLOWANCE~~

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section specifies general requirements for construction, protection, support, maintenance, and restoration for underground and overhead utilities affected by construction of the Project. This section includes coordination with private utility companies. The Work includes new construction, reconstruction, relocation, and abandonment.
- B. The utility works and services that may be affected include, but are not limited to:
  - 1. Storm drain, sanitary sewer, and combined sewer
  - 2. Water distribution and transmission mains
  - 3. Gas distribution and transmission
  - 4. Electric power, utility poles, and street lighting (underground and overhead)
  - 5. Telephone
  - 6. Traffic signals
  - 7. Fiber optic communications
  - 8. Cable Television
  - 9. Signal communication
  - 10. City fire signal lines and pull boxes
  - 11. Steam
  - 12. MBTA overhead and underground electric
  - 13. BlueBikes Station by Motivate
- C. This Section shall be used in conjunction with the specific underground utility work sections that apply to the Contract.

1.2 WORK BY UTILITY COMPANIES

- A. Certain parts of the utility work shall be performed, where shown or specified, by the utility company.
- B. Disconnecting and connecting of storm drains; sanitary sewers; and combined sewers services shall be the Contractor's responsibility as required in the Specifications or after having received permission from the Cambridge Department of Public Works. Disconnecting and connecting of water services shall be the Contractor's responsibility as required in the Specifications or after having received permission from the Cambridge Water Department.
- C. Contact the utility companies in advance of construction to allow sufficient time for the utility companies to accomplish the work they are required to perform. Provide the

utility company at least thirty (30) days advance notice prior to the scheduled date for commencement of work under this Contract.

- D. Work performed by utility companies to facilitate the Work under this Contract, and other work performed by utility companies solely for the convenience of the Contractor, shall be at no additional cost to the Owner.

### 1.3 DEFINITIONS

- A. Abandoned means that use of a utility asset has been discontinued by the utility company.
- B. To be abandoned means that use will be discontinued as part of the Work under this Contract.
- C. Maintenance means providing continuous service that meets project requirements during construction.
- D. Maintain complete-in-place means to protect, support, and otherwise maintain the existing condition and function of a facility during construction.
- E. Restoration means replacement of a facility or portions of a facility that have been removed or made inoperative by the Contractor in the performance of the Work.
- F. Utility Company means the company, agency, owner, or operator of the facility concerned.
- G. Temporary Facility means a facility provided, in lieu of an existing or new facility, to ensure continuity of service. When a temporary facility is not shown on the Contract Drawings, but is provided for the convenience of the Contractor, it shall be constructed at no additional cost to the Owner.

### 1.4 SUBMITTALS

- A. Shop Drawings: Submit the following in accordance with Section 013000 - SUBMITTALS
  - 1. Submit working drawings and, if applicable, shop drawings showing the details, procedures, and scheduling for performance of each utility work. Show actual verified field locations of existing utility facilities that are affected by the Work under this Contract; interferences which these facilities present to the new work; location of settlement markers; method proposed to proceed with the construction; and, if applicable, procedures for restoration and method of testing to demonstrate restoration was performed satisfactorily.
  - 2. Submit to the Engineer specifications and drawings describing the method to be used to temporarily support existing subsurface, surface and overhead utilities during construction. Include working drawings that indicate proposed materials and details.
  - 3. Submit to the Engineer for review a detailed excavation procedure for subsurface utilities. At a minimum, the procedure shall include:

- a. Equipment to be used for anticipated subsurface utility investigation and excavation.
  - b. Personnel to be used and designated utility coordinator.
  - c. Duration and schedule of investigation and excavation.
  - d. Techniques proposed to isolate and protect existing utilities.
  - e. Method for the Contractor to provide utility information derived from subsurface investigation to field personnel doing excavation.
  - f. A disciplinary plan that delineates all steps to be taken as a result of a utility disruption or tree damage caused by negligence or failure to follow proper procedures or the Contract requirements, including possible removal of Contractor personnel from the site.
  - g. Techniques proposed to identify and protect existing tree roots from damage, including notification of the City's arborist, exploration procedure with air spade, and protection of exposed roots as outlined in section 02100.
4. Submit an emergency action plan outlining procedure to be followed by the Contractor in case of unplanned utility interruptions or unplanned damage to utilities in service. Obtain concurrence from each affected utility company.
- a. List Contractor's personnel assigned responsible charge for emergency action on site for each shift, and those on call.
  - b. List phone notification numbers for each utility company, fire, and police departments, and other relevant agencies.
  - c. Include copies of utility plans showing the valve or switch locations to isolate each line.
- B. Transmit to the Engineer the as-built utility location survey data as specified in Article 3.11 of this Section.

#### 1.5 APPROVAL BY UTILITY COMPANIES

- A. All personnel performing work on to expose and support existing utility facilities shall be fully qualified and able to meet the standards of the affected utility company. If the Contractor does not have the required utility experience, Contractor shall retain a specialist firm acceptable to the affected utility company to perform the Work.
- B. Prior acceptance of temporary support methods for each affected utility facility shall be obtained by the Contractor from each utility company concerned.
- C. Prior permission for disrupting a utility shall be obtained by the Contractor from each utility company concerned.

- D. Prior approval for disrupting fire signal lines, high pressure fire water mains and hydrants, and fire service lines shall be obtained from the Cambridge Fire Department.

## 1.6 NOTIFICATION

- A. In addition to the initial thirty (30) day utility company notification, the Contractor shall notify the appropriate utility companies and the Engineer at least seven (7) days prior to starting any work involving or adjacent to surface, subsurface, or overhead utility facilities.
- B. Eversource Gas Requirements:
  - 1. If cut-off or connection is expected, notify the Eversource Gas Company Engineering Department four (4) weeks prior to cut-off or connection to gas main.
  - 2. Immediately notify the Gas Company Engineering Department if surface or subsurface settlement or movement is observed, regardless of the proximity to an existing gas facility.
  - 3. Gas valves to remain exposed at all times during work. Contractor to coordinate with Eversource Gas at least two (2) weeks prior to any required gas valve adjustments (raising or lowering).
  - 4. At locations where the sand bedding material of gas mains are excavated and removed by the Contractor, the Contractor shall put back or replace the bedding material, in kind. Crushed stone shall not be used as backfill for bedding material beneath gas mains.

## 1.7 STANDARD SPECIFICATIONS OF UTILITY OWNERS

- A. Specifications and construction methods from each utility owner apply to individual utility specification sections.
- B. It is the Contractor's responsibility to ensure that, unless otherwise specified, the standards for materials and construction methods required by the utility owner are met.

## PART 2 - MATERIALS

### 2.1 GENERAL

- A. Materials for temporary and permanent work shall be of the type, grade, and class specified by reference to utility company standards.

## PART 3 - EXECUTION

### 3.1 GENERAL CONSTRUCTION REQUIREMENTS

- A. Unless otherwise noted, conform to the construction standards, specifications, and standard practices of the affected utility companies. Coordinate with each utility

company the work to be done by the Contractor and the work to be done by utility company. Ensure continuity of all existing utility services to all users, except when the utility company determines that temporary interruption is acceptable.

- B. Unless otherwise indicated, maintain all utility facilities complete in place. Provide temporary support of utilities during construction only by methods acceptable to the utility company concerned. Provide temporary support plans and design stamped by a Professional Engineer in the Commonwealth of Massachusetts as required by the utility owner.
- C. Provide and maintain all temporary facilities required to provide interim utility service when a utility facility is to be relocated and when a utility facility to be replaced is abandoned prior to replacement.
- D. Where an existing utility facility is encountered that is not indicated or that is determined to be a different utility facility than that indicated, promptly notify the Engineer. The Contractor is responsible for determining the owner of the facility and the disposition of the facility.
- E. All water, sanitary, and storm services must be maintained throughout the project through the use of temporary pumps and piping. Unless otherwise noted, no service interruptions will be permitted.
- F. The Contractor shall dewater existing utility manholes and structures prior to beginning construction. Any dewatered material shall be properly treated and disposed.
- G. In addition to notices previously specified, the Contractor shall notify the Cambridge Water Department, Owner, and Engineer forty-eight (48) hours prior to excavating or working near the existing large diameter (>18-inch) water transmission main.
- H. Permits to excavate the public way cannot be issued until the applicant has notified the appropriate utility companies, as required by Massachusetts General Laws, Chapter 370 of the Acts of 1963. The applicant must either: 1) obtain written receipts from the affected utilities and provide copies of same to the owner; or 2) utilize the Dig-Safe System for the required notifications, and also submit written notifications for those utilities not participating in the Dig-Safe System. Written notifications must state that utility companies have been notified and the contractor cleared to begin work.

The following utility companies must be notified in writing:

M.B.T.A. (617) 222-3200  
10 Park Plaza, Suite 3910  
Boston, MA 02116

M.W.R.A. (617) 242-6000  
100 First Avenue  
Charlestown Navy Yard  
Boston, MA 02129

The following utility companies must be notified in writing or through Dig-Safe.

Enbridge Attention: Peter Kerrigan pfkerrigan@spectraenergy.com Westwood Area Office 8 Wilson Way Westwood, MA 02090	(781) 329-3750 x7710      1-800-726-8383
Verizon Attention: Matt King matthew.i.king@one.verizon.com 275 Wildwood St. Woburn, MA 01801	(781) 376-8172
KeySpan Gas Attention: Mr. Dennis Peri 201 Rivermoor Street West Roxbury, MA 02132	(617) 323-9210
Eversource Electric Attention: Matt Viens Matthew.viens@eversource.com 1165 Massachusetts Avenue Dorchester MA 02125	(401) 473-1508
Veolia Steam Attention: John Moloney john.moloney@veolia.com 53 State Street, Suite 14 Boston, MA	(857) 401-9812
Eversource Gas Attention: John Daly John.daly.jr@eversource.com 101 Linwood Drive Somerville, MA 02143	(781) 441-3206
COMCAST Attention: Anthony Vataloro Anthony_Vataloro@cable.comcast.com 55 Concord St. North Reading, MA 01864	(617) 279-7037
Cambridge Water Department Attention: Steve Lush slush@cambridgema.gov 250 Fresh Pond Parkway Cambridge, MA 02138	(617) 349-4770
Cambridge Electrical Department Attention: Steve Lenkauskas slenkauskas@CambridgeMA.GOV	(617) 349-4900

489 Broadway  
Cambridge, MA 02138

Bay State Network Services  
Ben Whitaker  
bwhitaker@baystatens.com  
4 Meredith Way, Suite # 4  
Rockland, MA 02370

(617) 429-3847

Dig-Safe 811  
At least a 72 business hour notice is required for DIG SAFE in Massachusetts.

The Contractor shall have all utilities marked out along the course of this work by such means as the Owner shall approve and shall preserve such marked locations until the work has progressed to the point where the encountered utility is fully exposed and protected as required. It shall be the Contractor's responsibility to notify utilities at least 48 hours prior to the start of any excavation.

The Contractor is responsible for contacting any other utilities that are not listed herein.

### 3.2 SUBSURFACE UTILITY INVESTIGATION

- A. The Contractor shall excavate test pits where indicated on the Contract Drawings and as specified.

### 3.3 UNSAFE AND UNSUITABLE UTILITY STRUCTURES

- A. If, upon exposure, the condition of a facility to be maintained complete-in-place is found to be unsafe, the Contractor shall notify the utility company, for support or for maintenance of service, the Contractor shall replace or reconstruct or coordinate the replacement or reconstruction of the facility with the utility Owner and shall promptly notify the Engineer of additional costs anticipated prior to beginning the work.

### 3.4 ABANDONED FACILITIES

- A. Demolish and remove abandoned utility facilities that interfere with the Work of this Contract. Abandoned facilities that do not interfere with the Work of this Contract may remain.
- B. Do not undertake demolition or removal until permission for such Work has been obtained from the utility company.
- C. When abandoned facilities are to be left in place, plug or cap the ends of conduits and pipes, and fill with controlled density fill (CDF) unless otherwise indicated. Remove abandoned utility manholes, junction boxes, and similar structures to a minimum depth of four (4) feet below finished grade, and puncture or break the bottom slabs of manholes and similar structure to allow drainage. Backfill and compact excavations resulting from removal of utility facilities as required to restore original grade.

### 3.5 SETTLEMENT OR MOVEMENT



- A. In case of settlement or other movement that causes or could cause damage, take immediate remedial measures to correct the conditions and repair the damage.

### 3.6 ACCESS

- A. At all times permit free and clear access to the affected facilities by personnel of the utility companies.
- B. Throughout the construction period, maintain access to all utility vaults and structures.

### 3.7 SERVICE CONNECTIONS

- A. Work required for maintaining, supporting, relocating, restoring, and constructing all service connections is included as part of the Work of this Contract, even though some existing service connections, for which record information is not available, may not be shown on the Contract Drawings.

### 3.8 REPAIR AND RESTORATION

- A. Repair all damage to utilities caused by Work under this Contract. Clean all utility structures of dirt caused by Work under this Contract. Immediately notify the Engineer and the utility company of damage to utilities.

### 3.9 EXCAVATION AND BACKFILL

- A. Perform excavation and backfill in accordance with Section 022100 – EARTH EXCAVATION, BACKFILL, FILL AND GRADING.
- B. Excavation and handling of contaminated soil is specified in Sections 020800 - SOIL AND WASTE MANAGEMENT, and 020950 – TRANSPORTATION AND DISPOSAL OF SOIL AND FILL.

### 3.10 CLEANING UP

- A. In accordance with Section 016300 – RESTORATION OF GROUNDS AND CLEANING UP, the Contractor shall, upon completion of the Work, remove all temporary construction facilities, equipment, debris, and unused materials, and shall restore the project area and adjacent affected areas to a neat and clean condition.

### 3.11 AS-BUILT LOCATION SURVEY

- A. For each new or relocated utility installed, including those installed or relocated by others in the Project Area, perform an as-built location survey by coordinates prior to backfilling the excavation.
- B. For each new hardscape feature installed perform an as-built location survey by coordinates. Hardscape features to be surveyed for location and elevation include but are not limited to; top and bottom of curb lines, limits of sidewalks and wheelchair ramps, roadway crown, manhole covers, gate box covers, pavers and limits of loam and seed. Hardscape features to be surveyed for location include but are not limited to; street lighting, pedestrian lighting, pedestrian signals, traffic signals, crosswalks, control panels,

benches, trash receptacles, parking and traffic striping, landscaping features, fences and irrigation heads.

- C. The survey work, including verification of the existing survey data, shall be performed by a licensed Professional Land Surveyor registered in Massachusetts to accurately record progress of the work throughout the duration of the Contract
1. The Surveyor is subject to the approval of the Owner. The Contractor shall submit the qualifications of the Surveyor documenting performance of similar scopes of work utilizing software specified below.
  2. All coordinates shall be geographically registered in the project datum coordinate system using the control points for horizontal and vertical controls.
  3. Horizontal accuracy shall be 0.01 feet.
  4. Elevation accuracy shall be 0.1 feet except benchmarks, topography, and structure foundations (including manholes pipe inverts) shall be accurate to 0.01 feet.
  5. Digital As-built drawings, including surface data shall be provided in AutoCAD Civil 3D format to match the text styles and line types of the design drawings provided by the Engineer.
  6. It is recommended that the Surveyor attend the Preconstruction meeting.
  7. Prior to submitting a monthly payment application, the Contractor's progressive electronic as-built drawings shall be acceptable to the Engineer.
- D. The Contractor shall also maintain red line record documents at the site to accurately record progress of the work throughout the duration of the Contract.
1. Contractor shall delegate the responsibility for maintenance of the record documents to one person on the Contractor's staff as approved by the Owner.
  2. Changes to the record documents shall be coordinated with adequate and proper entries on each page of the specifications and each sheet of drawings and other documents where such entry is required to show progress and changes properly, including change orders, approved shop drawings, RFIs, and other modifications.
  3. Record information shall be updated within 24 hours of installation or survey.
  4. All locations of utilities exposed by the work shall be checked with the plans. Utilities not shown as indicated on the plans shall be recorded and show in its accurate location with notes about where the utility is located at versus what is shown on the plans and submitted with the record drawings.
  5. All utilities shall be recorded whether shown on the plans or not and shall be submitted with the record drawings.

## **~~PART 4 – COMPENSATION~~**

### **~~Item 1200.1 – Temporary Utility Support and Coordination~~**

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

~~Measurement for payment for Temporary Utility Support and Coordination 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.~~

#### **~~BASIS OF PAYMENT/INCLUSIONS:~~**

~~Payment for Temporary Utility Support and Coordination will be based on the bid for this item in the proposal. Under the Lump Sum Price bid for this item, the Contractor shall furnish all labor, materials, tools, equipment and incidentals required to maintain continuity of gas, telephone, electric, telecommunications, cable TV, steam, MBTA, and privately owned utilities. The work includes all trunk, supply, transmission, service and main lines impacted by the Work. Under the Lump Sum Price bid for this item, the Contractor shall also furnish all labor, materials, tools, equipment and incidentals to coordinate and/or temporarily support all utilities exposed during the excavation for the installation of the Work; submission of all utility coordination and support work plans and shop drawings, including plan stamped by a Professional Engineer in the Commonwealth of Massachusetts; coordinate the protection of and protect all overhead utilities; and perform all coordination with the utility companies for the relocation, abandonment, protection, support, and other work required to facilitate the completion of the project. This Item further includes utility location (Dig Safe); provide, install, maintain, and disconnect portable generators to maintain electrical service to dwellings; coordination of construction with existing utility owners and operators; providing access for utility owners and operators to their respective utilities; and communicating with affected homeowners and residents.~~

#### **~~EXCLUSIONS:~~**

~~The following items are not included for payment under this item and are included for payment elsewhere; labor, materials, tools, equipment and incidentals required to maintain continuity of water mains; restoration of curbing, sidewalks, and bituminous concrete pavement; providing by pass pumping of sanitary sewers and storm drains; and temporarily and permanently relocating sanitary sewers, storm drains, water and services for sanitary sewers, storm drains and water mains.~~

### **~~Item 1200.2 – Bike Share Station Relocation~~**

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

~~Measurement for payment for Bike Share Station Relocation will be based on the actual costs of reimbursing Motivate Inc. to relocate bike share stations. The General Contractor is allowed up to a 5% mark up on labor, professional service, technician, and other costs related to bike share station relocation.~~

#### **~~BASIS OF PAYMENT/INCLUSIONS:~~**

~~Payment for Bike Share Station Relocation will be based on documented costs for this item. Under the Allowance for this item, the Contractor shall coordinate and reimburse bike share station operator Motivate Inc. for the costs associated with relocating bike share stations.~~

## **PART 4 - MEASUREMENT AND PAYMENT**

### **4.1 MEASUREMENT**

- A. No separate measurement will be made for the work required under this section. All costs in connection therewith shall be included in the respective lump sum price for the Water Infiltration Remediation. All preparation and incidental work necessary to accomplish the installation will be considered incidental to the Lump Sum price.

4.2 PAYMENT

- A. No separate payment will be made for work required under this section. Payment will be made at the Contract lump sum prices as specified.

END OF SECTION 012000



# CAMBRIDGE PUBLIC LIBRARY

## Collins Branch Library Pre-Bid Sign-in Sheet

File No.11572

May 16, 2024

Name (s)	Company	Email address
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