

SECTION 01010**SUMMARY OF WORK****PART 1 GENERAL****1.01 CONTRACT TIME/LIQUIDATED DAMAGES**

A. Contract Time - The Contract Time is **517** days from the date stipulated in the Notice to Proceed.

B. Liquidated Damages - The liquidated damages amount is **\$3,360.00** per calendar day.

1.02 DESCRIPTION

A. The Work includes all labor, materials, and equipment necessary to furnish and install the Needham Dewatering Drainage Line.

B. The major components of the Work to be performed under this Contract includes but is not limited to:

1. Installation of approximately 1,167 linear feet of 36-inch reinforced concrete gravity pipe and 76 linear feet of HDPE gravity pipe from Highland Avenue Northeast Launching Shaft site to the Charles River via Brook Road, Arlington Road and Charles Street. This includes the installation of approximately 112 linear feet of 36-inch reinforced concrete gravity pipe and associated steel casing pipe using trenchless methods. Actual dimensions are detailed on the Contract Drawings.
2. Construction of launching and retrieval pits for installation of pipeline using trenchless methods.
3. Construction of an outfall and stone bed in the Charles River.
4. Providing temporary support of excavation and dewatering for all work and a temporary coffer dam to construct the drain outfall at Charles River.
5. Furnishing, installation, monitoring, and reporting of geotechnical instruments for adjacent buildings, structures, roadways, and facilities.
6. Pre-construction and post-construction conditional surveys for adjacent buildings, structures, roadways, and facilities.
7. Furnishing and installing an inlet structure, drain manholes and chambers and all appurtenant work.
8. Relocation or replacement of utilities as noted on the Contract Drawings. Removal

and disposal of existing asbestos cement pipe.

9. Excavation, backfilling, removal, handling, transportation and disposal of excavated materials and groundwater along the pipeline route.
10. Restoration of all disturbed areas and utilities impacted by the Work.
11. Milling and overlay of existing pavement in all areas as identified on the Contract Drawings.

1.03 RELATED SECTIONS

- A. Section 01060 – Permits and Regulatory Requirements
- B. Section 01200 – Coordination and Meetings
- C. Section 01300 – Submittals
- D. Section 01310 – Progress Schedules
- E. Section 01590 - Temporary Field Facilities

1.04 DEFINITIONS

- A. The term “as indicated” shall mean as shown or depicted on the Contract Drawings; the term “as specified” shall mean as stated or required by these Specifications.

1.05 PROJECT/SITE CONDITIONS

- A. Existing Conditions

1. Use of Premises and Offsite Work:

- a. Confine all on-site operations and activities within public right of ways and Limits of Disturbance as indicated.
- b. The locations of available staging and laydown areas are shown on the Contract Drawings. These locations are only available for use until the milestone dates listed under Paragraph 1.06.C. If needed, acquire additional land required for temporary storage of materials and equipment, other than available staging and laydown area indicated on the Contract Drawings. Any land and access thereto that the Contractor deems necessary for the Contract Work, for temporary construction facilities, access and egress or for storage of materials shall be provided by the Contractor at no additional cost to the Authority.
- c. No entrance upon private property for any purpose without prior written

permission from the property owner and from the Authority is allowed. Present a copy of the agreement between the owner of the property and the Contractor to the Authority 30 days before execution of Work on private property. Do not enter upon public property, other than public streets, without giving prior notice to the entity charged with maintaining the property and obtaining written permission from the owner of the property and Authority.

- d. Comply with all permit requirements described in the Appendices and in permits obtained by Contractor.

2. Public Convenience:

- a. At all times, conduct Work to maintain the flow of pedestrian and vehicular traffic and prevent inconvenience to the general public and residents in the vicinity of the Work, and to insure protection of persons and property. Keep fire hydrants on and adjacent to the Work accessible to firefighting equipment at all times. Make temporary provisions to ensure the unimpeded use of sidewalks and access to businesses and residences. Do not obstruct gutters, storm water systems, drainage ditches, and culverts.
- b. Notify the Authority at least one (1) week in advance of Work that may impact property owners and/or businesses.

3. Securing Pipeline Access

- a. When Work is not in progress, provide temporary barricades and temporary watertight bulkheads for open ends of pipe to secure all open access points to prevent entry by animals and unauthorized personnel.
- b. Do not cut pipelines or otherwise remove pipeline components that would allow unauthorized entry into the pipeline until ready to begin Work in the affected section.
- c. Do not cut and remove pipeline sections and components until barricade materials are on site.
- d. Steel plates may be left on the roadways during non-working hours, Monday through Friday. Keep the length of steel plates used to a minimum, to cover the open excavation where work has ended for that shift. Ensure plates are secured; no bouncing of plates shall be allowed. Steel plates shall be flush and level with ground surface, physically secured, and edged around the perimeter with asphalt to create a smooth transition from existing pavement to road plate.
- e. Plate trenches to allow traffic to cross at all times outside of construction hours.

- f. Town of Needham roadways shall be fully opened each day for traffic following night work.

4. Geotechnical Investigations

- a. The subsurface conditions, groundwater observations, and soil environmental sampling data from the test borings apply only to the locations of the borings or samples at the time of the explorations, readings, or sampling. Refer to Appendix A of the Contract Specifications for subsurface information.

5. Work Site

- a. A portion of the Work shall be performed within the Charles River.

- B. Field Measurements:

1. All dimensions shown on the Contract Drawings and all dimensions required for the Work shall be verified by the Contractor by measurement of existing conditions.
2. Any discrepancies between the Contract Documents and existing conditions shall be referred to the Authority before any Work affected thereby has been started.

1.06 SCHEDULING AND CONSTRAINTS

- A. Authority's Work Schedule:

1. The Authority observes a five-day work week, Monday through Friday, 7:00 A.M. to 3:30 P.M.
2. Support from the Authority's Operations group will be available, Monday through Friday, 7:30 A.M. to 3:00 P.M.
3. The Authority observes the following holidays:

New Year's Day, Martin Luther King Day, President's Day, Patriot's Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Indigenous People's Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

- a. Holidays that fall on a Saturday will be observed by the Authority on the Friday before. Holidays that fall on a Sunday will be observed by the Authority on the Monday immediately following.
- b. The Contractor shall cease all activities and vacate the Work area by 12:00 P.M. (noon) of the day before Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, and New Year's Day.

4. Do not perform Work on Authority observed holidays, Union holidays or beyond the specified work hours, except for the following:
 - a. Construction de-watering, bypass pumping and trenchless installation operations may be conducted and maintained continuously as long as they are required and shall be performed in accordance with the MassDOT Construction and Access Permit.

B. Contractor's Work Hours:

1. Adhere to the following work hour restrictions unless otherwise approved by the Authority and the Town of Needham:
 - a. For work outside the Town of Needham Right-of-Way (ROW) limits, work is to be performed during the day and is prohibited Monday through Friday 5:00 P.M. to 7:00 A.M. each day and on weekends. Work is allowed Monday through Friday 7:00 A.M. through 5:00 P.M. each day for work outside the Town of Needham ROW limits.
 - b. For work within the Town of Needham ROW, work is allowed Sunday through Thursday 7:00 P.M. to 6:00 A.M. Work is prohibited Monday through Friday 6:00 A.M. to 7:00 P.M. and on weekends. Work is not allowed to be performed on Friday nights.
 - c. For work within MassDOT jurisdiction work is prohibited Monday through Friday 5:00 P.M. to 7:00 A.M. and on weekends. Work is allowed Monday through Friday 7:00 A.M. through 5:00 P.M. for all work within MassDOT jurisdiction, unless otherwise approved by MassDOT. Access to the Highland Avenue cloverleaf storage and laydown area is permitted at all times until the milestone date listed under Paragraph 1.06.C.

C. Milestones

1. The following milestones shall be adhered to and achieved by the dates specified herein.
 - a. Demobilization from Highland Avenue NE – March 15th, 2028.
 - b. Substantial Completion of the Needham Dewatering Drainage Line – March 15th, 2028.
 - c. Complete all work within the 161-163 Highland Avenue property – March 15th, 2028.
 - d. Complete work outside of 19 Brook Road temporary easement limits prior to November 15th, 2027.

D. Constraints

1. No work shall be performed on Brook Road, Arlington Road, and Charles Street between November 15th and April 15th, unless approved in writing by the Town of Needham.

E. Place temporary paving at the conclusion of each work week in roadways. Maintain temporary pavement a minimum through one winter season, and until the time that the permanent pavement is installed.**F. No tree or limb shall be cut other than those indicated in the Contract Documents. Tree clearing at the Charles River outfall location shall not be conducted between April 15th and October 31st.****G. Contract restrictions regarding work hours, noise limits and control of pollution, dust, debris, sediment and traffic shall apply to the Contractor's use of all private and public property.****H. Inspection for Substantial Completion**

1. Provide all labor, tools, materials, equipment, electrical power, water, air, instruments, pumps, access, and traffic controls and police details as required for final cleaning of all components of the Work as specified in Section 01700.
2. Provision of successful completion of inspections specified in Section 01700 is a condition precedent to Substantial Completion.

PART 2 PRODUCTS (NOT USED)**PART 3 EXECUTION****3.01 EXAMINATION****A. Refer to the Inadvertent Discovery Plan (IDP) included as appended to Specifications Volume 2 Appendix C.****B. Archaeological Artifacts**

1. All articles of historical or scientific value, including coins, fossils, and articles of antiquity, which may be uncovered or otherwise brought to the Contractor's attention during the course of the Work shall remain the property of the owner on whose property the articles were found. Applicable procedures in the IDP shall be followed in the event of such findings.

C. Human Remains

1. Human remains includes full burials and any skeletal remains such as bone fragments, individual bones or teeth. Applicable procedures in the IDP shall be followed in the event of such findings.

**** END OF SECTION ****