MASSACHUSETTS WATER RESOURCES AUTHORITY

100 FIRST AVENUE

BOSTON, MASSACHUSETTS 02129

WESTON AQUEDUCT SUPPLY MAIN 3
CONSTRUCTION PACKAGE 2
REHABILITATION OF WATER MAIN SECTION W10
WALTHAM, MA

MWRA CONTRACT NO. 6543

ADDENDUM NO. 1

TO ALL CONTRACTORS ESTIMATING:

Bidders are hereby informed that plans and specifications for the abovementioned contract are modified, corrected and/or supplemented as follows and that Addendum No. 1 becomes part of the Contract Documents and consists of Items 1-1 through 1-3.

ITEM 1-1: SECTION 01015 – CONSTRUCTION SEQUENCE AND CONSTRAINTS

DELETE SECTION 01015 – CONSTRUCTION SEQUENCE AND CONSTRAINTS in its entirety and **REPLACE** with the new SECTION 01015 – CONSTRUCTION SEQUENCE AND CONSTRAINTS, consisting of 8 pages, attached hereto as Attachment A, Addendum No. 1, Item 1-1.

ITEM 1-2: SECTION 02511–CLEANING AND CEMENT-MORTAR LINING WATER MAIN

Section 3.02.A

DELETE 3.02.A in its entirety and **REPLACE** with the following:

"A. Cleaning Pipeline:

1. In accordance with AWWA C602 by means of scraping apparatus. Remove all rust, tubercules, deposits, old coatings, oil, grease, dirt, debris, and other foreign materials to produce a surface suitable for application of cement-mortar lining. Several passages of cleaning apparatus, in both directions, or completion with hand cleaning tools may be required to produce specified results particularly at locations adjacent to the lock-bar and rivet heads.

2. Scraping apparatus shall be moved through pipeline by power winch or motorized buggy for section to be cleaned. Fluid-propelled devices shall not be allowed for pipe cleaning.

3. Cleaning shall include removal of any loose, deteriorated, or delaminated internal coatings such as coal tar enamel to ensure proper adhesion of the cement-mortar lining. Complete removal to bare metal is not required; however, the surface must be sound and suitable for bonding.

4. Provide clean interior metal surfaces in the water main ready to receive the cement-mortar lining. Leave nothing on pipe surfaces which in any way, or at any time, may be harmful to the cement-mortar lining or prevent the lining from bonding properly to pipe wall.

5. Cleaned interior of the pipe shall be free of sharp projection that would affect thickness of lining and all matter detrimental to lining.

6. Cleaning debris shall not interfere with operation of air valves, laterals, valves and other water main appurtenances.

7. Remove debris from inside of pipe and dispose of in legal manner. The Contractor shall comply with all State and Federal laws and regulations regarding the disposal of the debris.

8. At point where debris is flushed or removed from pipe, provide a containment and settling area. Sediment, other unsatisfactory material and flushing water shall not enter into drains, sewers, waterways or onto private property.

9. Immediately following each debris removal or flushing operation, clean street and other affected areas in accordance with Section 01046 – Control of Work.

10. Prevent entry of dirt, debris, groundwater or other foreign matter into pipeline except materials needed for cleaning and lining of pipe.

11. Upon completion of cleaning operations for each section of pipeline, televise interior for visual inspection of the cleaned pipeline section.

12. Advise the Authority of any evidence encountered during cleaning indicating repair or replacement may be required before pipeline section is lined.

13. Assist the Authority in making inspection to determine acceptability of cleaning and need to repair or replace pipe."

ITEM 1-3: SECTION 02512–STRUCTURAL LINER

Section 2.01.C

DELETE 2.01.C in its entirety and **REPLACE** with the following:

A. Loading Criteria:

1. Working pressure, Pw= 110 psi.
   - 110 psi station 114+52 to station 116+89 along Sun Street and
   - 110 psi station 139+22 to station 142+25 along Felton Street.
2. Transient pressure ***(includes working pressure Pw),*** Pt= 165 psi
3. Vacuum pressure, Pv= -14.7 psi
4. Soil cover, H= Varies 0.5 ft to 8 ft
5. Height of the water table over crown of pipe, Refer to Boring Logs included in Appendix E.
6. Live load= HS25 for pipes under roads.
7. Change in temperature, Delta T=+/- 40 °F
8. Thrust: CFRP shall be designed to withstand thrust loads.
9. Soil modulus, Ms= 1,000 psi, refer to Geotechnical Summary Tables included in Appendix A.

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Douglas J. Rice, Director of Procurement

Date: January 5, 2025