



The City of **WORCESTER**

Administration & Finance – Purchasing Division
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June 24, 2025

To All Bidders:

Subject: **Bid No. 8454-M6 – Sewer Rehabilitation – Western Interceptor / DPW**

ADDENDUM NO. 1

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

General Bid Clarification:

PROPOSAL - BID ITEM SHEET

DELETE PROPOSAL - BID ITEM SHEET (Page P-1 to P-4) in its entirety and REPLACE with PROPOSAL - BID ITEM SHEET (Page P-1R to P-5R) attached. See Attachment below.

SECTION 01551 – Portable Changeable Message Sign

ADD SECTION 01551 – PORTABLE CHANGEABLE MESSAGE SIGN. See Attachment below.

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Stephen R. McDonald
Assistant Purchasing Director

BID ITEMS
for
Bid No. 8454-M6
Contract No. S25-3

THE BIDDER MUST FILL IN THESE UNIT OR LUMP SUM PRICES. The BIDDER should also carry out all extensions and fill in "Computed Totals"

BASE BID
(ITEMS 270, 700 THROUGH 707, and Item 900)

Item	Rodent Control, lump sum
270	

GEOPOLYMER LINING OF SEWERS

Item	Geopolymer Lining for 48-inch Sewers, per linear foot		
701			
	Dollars		
	and	Cents	
	(\$)	2,396 LF \$

PROPOSAL

**BID ITEMS
for
Bid No. 8454-M6
Contract No. S25-3**

ITEM NUMBER	DESCRIPTION	ESTIMATE OF QUANTITIES	COMPUTED TOTALS
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(In case of error or discrepancies, UNIT OR LUMP SUM PRICES govern, and written words take precedence over figures)

MANHOLE REHABILITATION

Item 702	Geopolymer Lining of Manholes, per vertical foot		
	<div>Dollars</div>		
	and <div>Cents</div>	203 VF	\$
	<div>(\$)</div>		

Item 703	Geopolymer Lining of Structures, per structure		
	<div>Dollars</div>		
	and <div>Cents</div>	2 EA	\$
	<div>(\$)</div>		

SERVICE CONNECTION REHABILITATION

Item 704	Geopolymer Seal/Grout Service Connections, per service		
	<div>Dollars</div>		
	and <div>Cents</div>	117 EA	\$
	<div>(\$)</div>		

PROPOSAL

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TEMPORARY BYPASS PUMPING

Item Temporary bypass pumping, lump sum
705

	Dollars		
and	Cents	1 LS	\$
(\$)		

PORTABLE CHANGEABLE MESSAGE SIGNS

Item Portable Changeable Message Sign, per unit-day
706

	Dollars		
and	Cents	600 unit-day	\$
(\$)		

MOBILIZATION

Item Mobilization, lump sum
707 (not more than 5% of total of items 270 and 700
 through 706)

	Dollars		
and	Cents	1 LS	\$
(\$)		

PROPOSAL

**BID ITEMS
for
Bid No. 8454-M6
Contract No. S25-3**

ITEM NUMBER	DESCRIPTION	ESTIMATE OF QUANTITIES	COMPUTED TOTALS
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CITY USE

Item 900	Lump Sum Reserved for City Use, lump sum			
	Three Hundred and Seventy-Seven Thousand Dollars			
	and Zero Cents	1 LS		<u>\$ 377,000</u>
	(\$ 377,000)			

TOTAL BID PRICE FOR WORK INCLUDING CONTINGENCY

The computed contract price for all Items 270, 700 through 707, and Item 900 inclusive is:

_____ DOLLARS
(AMOUNT IN WORDS)

AND _____ CENTS \$ _____
(AMOUNT IN FIGURES)

NUMBER OF CALENDAR DAYS TO COMPLETE PROJECT 190
(EXCLUDING RE-TEST INSPECTION)

THIS PROPOSAL IS BASED ON PROVISIONS OF THE FOLLOWING ADDENDA:

No. _____ No. _____

No. _____ No. _____

SECTION 01551

PORTABLE CHANGEABLE MESSAGE SIGN

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work covered under this section shall consist of furnishing, maintaining, transporting and using a Trailer - Mounted Changeable Message Sign.
- B. All messages displayed shall be approved by the Engineer.

1.02 REFERENCES:

- A. The following standards form part of these specifications and indicates a minimum required standard:

Massachusetts Department of Transportation Standard Specifications for Highways and Bridges

Manual on Uniform Traffic Control Devices (MUTCD)

PART 2 - PRODUCTS

2.01 GENERAL:

- A. Materials required under this Section need not be new but must be in first class condition and acceptable to the Engineer. Any materials that in the judgement of the Engineer are unsatisfactory in appearance and/or performance shall be immediately replaced by acceptable units.

2.02 SPECIFIC REQUIREMENTS:

Refer to Sections 01330-Submittals and Section 01140-Special Provisions for information regarding required certification that all materials, products, equipment and/or services.

- A. The Trailer-Mounted Changeable Message Sign shall meet the requirements of this specification and shall consist of the following major components;
 - 1. Message Board
 - 2. Operator Interface (CPU and Keyboard)
 - 3. Power Supply
 - 4. Towable Trailer

B. Message Board

1. Type - The display can be Flip Disk, LED or a combination of both Flip Disk and LED (Hybrid).
2. Colors - The display shall be either fluorescent yellow or ITE amber.
3. Lines - The sign board shall have the capability of displaying at least three lines of 18- inch high characters with 1 to 8 characters per line.
4. Visibility and Viewing Angle - The sign shall be visible for one-half mile and legible from a minimum distance of 650 feet with a viewing angle of no less than 30 degrees, during both daytime and nighttime operation.
5. The entire message code shall be readable at least twice by the motorists when traveling at the posted speed limit.

2.03 OPERATOR INTERFACE:

- A. A means of creating/controlling the on-site display message(s) shall be provided with each sign. The operator interface shall contain as a minimum the following:
1. Operator's Display terminal with keyboard will provide a full screen display to allow the operator to preview the message content and format before it is sent to the sign panel. The keyboard shall be of a standard design.
 2. Controller (CPU)
 3. Lockable weatherproof enclosure for interface components.

2.04 CONTROLLER:

- A. The controller shall possess, as a minimum, the following features:
1. Full 32K user memory with the option for an additional 32K archive memory.
 2. Capacity to store a minimum of 199 pre-defined messages and a minimum of 50 user-created messages (not to exceed 32K).
 3. Changeable message flash rate capability.
 4. A minimum of 24 hour battery back-up.
 5. Password activation shall be software available.

2.05 POWER-SUPPLY:

- A. The sign shall be capable of operation from the following sources:
1. A diesel powered generator with a battery backup.
 2. A battery with diesel generator charging or solar charging.
 3. The power supply shall have a cover for weather protection and shall be lockable for security.

2.06 TOWABLE TRAILER:

- A. The trailer shall be of rugged construction suitable for towing at highway speeds and at low speed over rugged construction site terrain. The trailer shall have at least the following features:
1. Complete lighting to standard highway specifications.
 2. A single axle with two (2) – 15-inch wheels (3500 GVW rated).
 3. Two (2) inch ball coupler with heavy duty safety chains.
 4. Four (4) corner-located leveling swivel jacks capable of leveling the trailer on one (1) in six (6) grade and capable of stabilizing the trailer in high winds of up to 80 MPH. in addition, a tongue leveling swivel jack shall be provided.
 5. Surge breaks with lockable parking in conformance with Federal weight regulations.
 6. The sign shall be capable of being locked in a stowed position while being towed.
 7. A hydraulic lift mechanism shall be provided to elevate the sign to its operating position.
 8. It shall be possible to lock the sign panel in several off-angle positions with respect to the trailer axis for enhanced visibility.

2.07 ENVIRONMENTAL:

- A. The Trailer-Mounted Changeable Message Sign shall be capable of performing all functions at ambient temperatures ranging from -30 degrees F to +165 degrees F. There shall be no degradation of operation due to fog, rain or snow.

2.08 MAINTENANCE:

- A. All components of the Trailer-Mounted Changeable Message Sign shall be readily accessible for ease of maintenance. Standard commercially available parts shall be used where possible.
- B. The sign shall require no special scheduled maintenance. Maintenance shall include periodic cleaning. When not being used, at the discretion of the Engineer, the sign shall be stored in an approved secure area.

2.09 DOCUMENTATION:

- A. As a minimum, the following documentation shall be supplied with each Trailer-mounted Changeable Message Sign:
 - 1. Operating Manual
 - 2. Parts Manual
 - 3. Wiring Diagrams
 - 4. Troubleshooting Guide

PART 3 - EXECUTION

3.01 INSTALLATION:

- A. All warning devices shall be subject to removal, replacement and/or repositioning as often as necessary. The changeable message unit shall be available for immediate use on the project and be positioned as required by the Engineer. The Contractor shall be responsible for the maintenance of such device and appurtenances, throughout its use on the project, with no additional compensation thereof, other than as provided under the contract unit price. Should the unit be found defective in any way it shall be replaced immediately at the Contractor's expense.
- B. For work under this contract, Contractor shall provide up to 600 unit days of message sign operation, with possibly up to three sign units operating for 200 days simultaneously, as required by the Engineer.

END OF SECTION

\\\\Wse03.local\\WSE\\Projects\\MA\\Worcester MA\\233212-Western Interceptor Short Term Rehab Design\\11-Bidding\\04-Addendum\\Addendum No.1\\01551 - Portable Changeable Message Sign.docx