

**City of Lowell, MA
Contract 15-01 / IFB 15-78
Decatur West Stormwater Management
And Marginal Sewer Relief Pipe
CWSRF #3976**

ADDENDUM NO. 1

**CDM Smith Inc.
670 North Commercial Street, Suite 201
Manchester, NH 03101**

DATE: April 28, 2015

TO: All Plan Holders

RE: City of Lowell, Massachusetts
Lowell Regional Wastewater Utility (LRWWU)
Contract 15-01 / IFB 15-78

RECEIPT OF BIDS:

****Wednesday, May 6, 2:00 PM****

**Office of the Lowell City Hall
Purchasing Department
375 Merrimack Street, Room 60,
Lowell, MA 01852**

ADDENDUM NO. 1

This Addendum shall become part of the Contract Documents as provided in the Instructions to Bidders for the above-referenced project. The attachments are as follows:

Attachment A	Replacement Section 00300 – Bid Form, 29 pages
Attachment B	Replacement Section 01010 – Summary of Work, 6 pages
Attachment C	Replacement pages 02576 – Pavement Repair and Resurfacing, 2 pages
Attachment D	Sheet C-8 Dane Street

Bidders shall acknowledge receipt of the Addendum by inserting its number and date on Page 00300-1 of the Bid Form. Failure to do so may subject the bidder to disqualification.

CHANGES TO THE SPECIFICATIONS

1. SECTION 00020 – INVITATION TO BID

- a. Page 00020-1, Paragraph 4, Remove the following paragraph:

“ The Contract Time shall be 400 Calendar Days commencing ten days following the Effective Date of the Agreement. Substantial completion of the work, with the exception of final paving, shall be 180 Calendar Days, commencing ten days following the Effective Date of the Agreement.”

And Replace with the following paragraph:

“ The Contract Time shall be 400 Calendar Days commencing on the Effective Date of the Agreement. Substantial completion of the work, with the exception of final paving, shall be 172 Calendar Days, commencing on the Effective Date of the Agreement.”

- b. Page 00020-2, Paragraph 6, third line, REMOVE the following sentence:

“ The two low bidders shall submit completed DBE forms (EEO-DEP-190 & EEO-DEP-191) by the close of business on the third business day after bid opening.”

And REPLACE with the following sentence:

“ All Bidders shall submit completed DBE forms (EEO-DEP-190 & EEO-DEP-191) with the Bid.”

2. SECTION 00100 – INSTRUCTIONS TO BIDDERS

- a. Page 00100-2, Article 4, Paragraph 4.2, fourth line, REMOVE the following sentence:

“ Addenda will be sent by delivery service with return receipt requested, to all parties recorded as having received the Contract Documents.”

And REPLACE with the following sentences:

“ Addenda will be posted on the city of Lowell’s Purchasing Department website. Bidders are required to review all bidding materials on the website and acknowledge all issued Addenda on the Bid Form. As a courtesy, the Addenda will also be emailed to all attendees providing email addresses at the Mandatory Pre-Bid Meeting.”

- b. Page 00100-4, Article 8, ADD the following new Paragraphs 8.10 and 8.11, and renumber the existing Paragraph 8.10 to 8.11:

“ 8.10 “All Bidders shall submit completed DBE forms (EEO-DEP-190 & EEO-DEP-191) with Bid.”

8.11 The Bidder shall attach a completed City of Lowell Certificate of Compliance to the Bid Form. “

- c. Page 00100-5, Article 11, Paragraph 11.7, ADD the following to the end of the paragraph:

“It is the Owners intent to issue the notice of award by June 1st, 2015”

- d. Page 00100-5, Article 12, Paragraph 12.1, second line, REMOVE the following sentence:

“ Within five days after the date of receipt of such notification CONTRACTOR shall execute and return all copies of the Agreement and all other applicable Contract Documents to OWNER.”

And REPLACE with the following sentences:

“ Within three days after the date of receipt of such notification CONTRACTOR shall execute and return all copies of the Agreement and all other applicable Contract Documents to OWNER.”

3. SECTION 00300 – BID FORM (AND APPENDIX L)

- a. REMOVE Section 00300, Bid Form, in its entirety (and in APPENDIX L (two copies of the Bid Form)) and REPLACE with the Bid Form as provided in **Attachment A**, Pages 00300-1 thru 00300-29.

4. SECTION 00500 – AGREEMENT

- a. Page 00500-, Article 3.1, first line, REMOVE the following sentence:

“ The Contract Time shall be 400 Calendar Days, commencing ten days following the Effective Date of the Agreement. Substantial completion of the work, with the exception of final paving, shall be 180 Calendar Days, commencing ten days following the Effective Date of the Agreement.”

And REPLACE with the following sentences:

“ The Contract Time shall commence on the Effective Date of the Agreement and to fully complete the work within 400 Calendar Days and in accordance with the terms as stated in the Agreement. Portions of the work must be completed by July 17, 2015 and August 14, 2015 pursuant to existing temporary easements granting access for construction. Substantial Completion of the work, with the exception of final paving on city streets, shall be 172 Calendar Days, commencing on the Effective Date of the Agreement.”

b. Page 00500-2, Article 7.1, first line, REMOVE the following sentence:

“OWNER and CONTRACTOR recognize that the time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the Contract Time specified in Article 3 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions.”

And REPLACE with the following sentences:

“OWNER and CONTRACTOR recognize that the time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the Substantial Completion of Work Time specified in Article 3 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions.”

5. SECTION 01010 – SUMMARY OF WORK

b. REMOVE Section 01010, Summary of Work, in its entirety and REPLACE with the Bid Form as provided in **Attachment B**, Pages 01010-1 thru 01010-6.

6. SECTION 01025 – MEASUREMENT AND PAYMENT

a. Page 01025-4, Paragraph 1.03 REMOVE the Paragraph in its entirety and REPLACE with the following new Paragraph:

“1.03 WATER PIPE AND APPURTENANCES (Items A.3a thru A.3i and Items B.3a thru B.3i)

A. Measurement

1. Ductile iron water main of the size specified on the bid sheet (Items A.3a and B.3a) will be measured in place on a linear foot basis. Measurement for payment does not signify that the water main is accepted. Measurement for length will be along the horizontal centerline of the pipe, with no deductions for valves and fittings. Measurement will be to the nearest tenth of a foot.
2. Compact ductile iron fittings (tees, bends, crosses, reducers, transition couplings, solid sleeves, etc) installed in the completed project (Items A.3b and B.3b) shall be measured by the pound, excluding cement lining, based on tabular weights obtained from the current ANSI Standards. The weight of the fittings shall not include the weight of glands, bolts, nuts, gaskets or accessories.
3. Gate valves of the size specified will be measured as the actual number of each installed in the completed project (Items A.3c) and accepted by the Engineer.

4. New hydrants and hydrant assemblies (Item A.3d) shall be measured as the number of each actually installed in the completed project and accepted by the Engineer.
5. Copper tubing (Items A.3e) for water service connections installed in streets and sidewalk areas will be measured as the actual number of linear feet of each size of tubing installed in the completed project as measure from the centerline of the water main to the end of the new service line installed.
6. Corporation stops (Items A.3f) will be measured as the actual number of each size of corporation stop installed in the completed project and accepted by the Engineer.
7. Curb stops (Item A.3g) will be measured as the actual number of each size of curb stops with boxes installed in the completed project and accepted by the Engineer.
8. Water main offsets (Item A.3h) will be the number of water main offsets actually installed around the new drains or sewers and accepted in the locations designated by the Engineer.
9. Bell Leak Repair Clamps (Item A.3i) will be measured as the actual number installed in the completed project and accepted by the Engineer.

B. Payment

1. Payment for furnishing and installing ductile iron water pipe of the class and size specified will be made for the respective quantities as above determined, at the applicable price per linear foot bid under Items A.3a and B.3a in the Bid Form. Such price and payment shall be full compensation for removal and disposal of abandoned water main, furnishing, installing, chlorinating, maintaining and removal of temporary water service as specified in Section 02656, cutting existing pavement; trench excavation (excluding rock and boulder excavation); placing crushed stone where required; sheeting and bracing; dewatering and drainage; furnishing and installing any geotextile filter fabric; disposal of excess excavated material; furnishing, laying and jointing the pipe, including specified restrained joints; connections to existing water mains; backfilling; restoring the trench surface to grade; restoring all physical features to grade, including curbs, sidewalks and driveways; cleaning, chlorinating and testing the pipe and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form.
2. Payment for furnishing and installing fittings and couplings based on weights as herein specified will be made under Items A.3b and B.3b. Payment shall not include weight of glands, bolts, nuts, gaskets or accessories. Price and payment shall be full compensation for furnishing and installing the fitting with

cement lining, glands, bolts, nuts, gaskets, jointing and all work required for, or incidental to the satisfactory completion of the Item for which payment is not provided under other items in the Bid Form.

3. Payment for furnishing and installing gate valves (Items A.3c), shall include boxes and covers. Price and payment will be full compensation for cutting existing pavement, excavation (excluding rock and boulder excavation), placing crushed stone where required, setting, jointing, providing crushed stone drainage pocket, tie rods, furnishing and installing restrained joints and fittings, backfilling, and cleaning as specified and all work required for or incidental to the satisfactory completion of the Items for which separate payment is not provided under other items in the Bid Form.
4. Payment shall include furnishing and installing new hydrants (Item A.3d) shall be full compensation for furnishing and installing hydrants, specified ductile iron anchoring tees, 6-inch restrained joint cement lined ductile iron pipe, gate valves, tie rods and clamps, couplings and all appurtenances required for the satisfactory completion of the work to connect the new hydrant to the water main. Price and payment shall be full compensation for cutting existing pavement, excavation (excluding rock and boulder), placing crushed stone bedding where required, setting, jointing, tie rods, furnishing and installing restrained joints and fittings, 6-inch cement lined ductile iron pipe, anchoring tee and elbow, 6-in. resilient seated gate valve with boxes and covers, concrete trust blocks, backfilling, restoring the trench surface to grade, cleaning, chlorination and testing of hydrant branches, painting hydrants as specified, restoration of sidewalks, and all work required for or incidental to the satisfactory completion for which separate payment is not provided under other items in the Bid Form.
5. Payment for furnishing and installing new copper tubing service connections for the existing size will be made for the respective quantities as determined above at the applicable price under Items A.3e of the Bid Form. Price and payment shall be full compensation for all work of furnishing and installing the tubing and all required adapters, reducers, fittings and appurtenances required for executing such connections, chlorinating, trench excavation (excluding rock and boulder excavation), dewatering and drainage, driving, and removing sheeting and bracing, backfilling, restoring the trench surface to grade, restoring curbing, sidewalks, driveways and other physical features to their original condition, disposal of excavated materials, and all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.
6. Payment for furnishing and installing corporation stops of the required size will be made for the respective quantities as determined above at the applicable unit price bid under Item A.3f of the Bid Form. Price and payment shall be full compensation for all work of furnishing and installing the corporation cocks

and appurtenances, excavation (excluding rock and boulder excavation), backfilling and all else incidental thereto for which payment is not provided under other items in the Bid Form.

7. Payment for furnishing and installing curb stops of the required size will be made for at the respective quantities as determined above at the applicable unit price bid under Item A.3g of the Bid Form. Price and payment shall be full compensation for all work of furnishing and installing the curb stops with boxes, all excavation (excluding rock and boulder excavation), backfilling, setting boxes and all else incidental thereto for which payment is not provided under other items in the Bid Form.
8. Payment for furnishing and installing water main offsets will be made for the quantity as above determined at the respective unit price bid for each under Item A.3h in the Bid Form. Such price and payment shall be full compensation for furnishing, installing, testing and chlorinating the pipe; furnishing, maintaining and removal of temporary water service as specified in Section 02656, cutting existing pavement; trench excavation (excluding rock and boulder excavation); placing crushed stone where required; sheeting and bracing; dewatering and drainage; furnishing and installing any geotextile filter fabric; disposal of excess excavated material; furnishing, laying and jointing the pipe, including specified restrained joints and bends to relocate the water main around the sewer or drain pipe; insulation of the pipe (if required as shown on Drawings or directed by Engineer), backfilling; restoring the trench surface to grade; restoring all physical features to grade, including curbs, sidewalks and driveways; cleaning, chlorinating and testing the pipe and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form.

At certain locations in this contract, the limit of work is at or near an existing water gate valve previously installed by others. The Lowell Water Utility has no records that indicate that these gates have any type of thrust restraint keeping them from separating from the existing pipe behind the gate. The Contractor shall submit for review by the Engineer a proposed sequence of construction to be used at these locations to address the thrust restraint issue. All costs associated with the thrust restraint method shall be considered incidental to the work and shall be included in the price for relay of existing water pipe.

9. Payment for furnishing and installing 20-inch bell leak repair clamps will be made for as determined above at the applicable unit price bid under Item A.3i of the Bid Form. Price and payment shall be full compensation for all work of furnishing and installing the bell leak repair clamps, all excavation (excluding rock and boulder excavation), backfilling, and all else incidental thereto for which payment is not provided under other items in the Bid Form.

10. Contractor is advised that existing 4-inch water main may be encountered during construction. 4-inch replacement parts should be made available on-site for repairs to the existing 4-inch water mains. Payment shall be made under the 6-inch water main line items, respectively.
11. All new water mains shall have restrained joints on each side of all fittings.
12. Payment for rock and boulder excavation will be made under Items A.6a or A.6b and Items B.6a or B.6b.
13. Payment for dewatering will be made under Item A.10 and B.10. “

- b. Page 01025-17, Paragraph 1.21 REMOVE the Paragraph in its entirety and REPLACE with the following new Paragraph:

“1.21 FURNISH AND INSTALL ARBOR STRUCTURE (Item A.22)

A. Measurement

1. Measurement of the lump sum for Bid Item A.22 shall be the invoice cost to furnish and install the arbor structure. The Contractor shall obtain and submit to the Owner three competitive bids to furnish the arbor structure. Installation cost shall be a negotiated cost approved by the Owner and Engineer prior to any work.

B. Payment

1. Payment of the lump sum for Bid Item A.22 shall be the invoice cost of the arbor structure delivered to the site and the negotiated cost to Contractor for installing the structure at the site per the supplier's instructions. Contractor's costs for unloading and handling on the site, labor, installation, overhead, profit, and other expenses will be negotiated into the payment under this item.

- c. Page 01025-18, Paragraph 1.22 REMOVE the Paragraph in its entirety and REPLACE with the following new Paragraph:

“1.22 FURNISH AND INSTALL MISCELLANEOUS SITE IMPROVEMENTS (Item A.23)

A. Measurement

- 1. Measurement of the lump sum for Bid Item A.23 shall be the invoice cost of the miscellaneous site improvements and the Contractor’s negotiated cost for material and equipment required to complete the improvements.

B. Payment

- 1. Payment for lump sum for Bid Item A.23 shall be the invoice cost of the miscellaneous materials and the negotiated cost to Contractor to fabricate and install the miscellaneous improvements. Contractor’s costs for unloading and handling on the site, labor, installation, overhead, profit, and other expenses will be negotiated into the payment under this item.

7. SECTION 02576 – PAVEMENT REPAIR AND RESURFACING

- a. REMOVE Page 02576-8, Final Pavement Summary in its entirety and REPLACE with Final Pavement Summary as provided in **Attachment C**, page 02576-8.
- b. ADD Figure No. 1 provided in Attachment C following the Final Pavement Summary as Page 02576-9

8. SECTION 02577 – PRECAST PERVIOUS CONCRETE PAVING SLABS

- a. Page 02577-1, Paragraph 1.03, ADD the following new paragraph 1.03E:
“E. Submittals shall be made within 14 days of the Effective Date of the Agreement.”

9. SECTION 02605 – PRECAST CONCRETE MANHOLES, STRUCTURES, AND CATCH BASINS

- a. Page 02605-3, Paragraph 1.03, ADD the following new paragraph 1.03E:
“E. Submittals shall be made within 7 days of the Effective Date of the Agreement.”

10. SECTION 02612 – REINFORCED CONCRETE DRAIN AND SEWER PIPE

- a. Page 02612-1, Paragraph 1.03A, DELETE “30 days” and REPLACE with “7 days”.

11. SECTION 02616 – DUCTILE IRON PIPE AND FITTINGS

- a. Page 02616-2, Paragraph 1.03, ADD the following new paragraph 1.03C:

“C. Submittals shall be made within 7 days of the Effective Date of the Agreement.”

12. SECTION 02622 – POLYVINYL CHLORIDE (PVC) GRAVITY PIPE

- a. Page 02622-1, Paragraph 1.03A, DELETE “30 days” and REPLACE with “7 days”.

13. SECTION 02623 – POLYPROPYLENE GRAVITY DRAIN PIPE

- a. Page 02623-1, Paragraph 1.03, ADD the following new paragraph 1.03F:

“F. Submittals shall be made within 7 days of the Effective Date of the Agreement.”

14. SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES

- a. Page 02640-2, Paragraph 1.03, ADD the following new paragraph 1.03E:

“E. Submittals shall be made within 7 days of the Effective Date of the Agreement.”

15. SECTION 02656 – TEMPORARY WATER BY-PASS AND SERVICES

- a. Page 02656-2, Paragraph 1.03, ADD the following new paragraph 1.03B:

“B. Submittals shall be made within 7 days of the Effective Date of the Agreement.”

16. SECTION 02725 – WATER SERVICE CONNECTIONS AND REPAIR

- a. Page 02725-1, Paragraph 1.03A, DELETE “10 days” and REPLACE with “7 days”.

17. SECTION 02726 – SEWER AND DRAIN SERVICE CONNECTIONS

- a. Page 02726-1, Paragraph 1.03, ADD the following new paragraph 1.03B:

“B. Submittals shall be made within 7 days of the Effective Date of the Agreement.”

18. SECTION 02850 – SITE IMPROVEMENTS

- a. Page 02850-2, Paragraph 1.03, ADD the following new paragraph 1.03B:

“B. Submittals shall be made within 14 days of the Effective Date of the Agreement.”

- b. Page 02850-2, Paragraph 2.02C, REMOVE the following sentence:

“ Collapsible bollards shall be River Walk style as manufactured by Alloy Castings Co., Inc. 151 West Union Street, East Bridgewater, MA 02333 tel. (508) 378-2541, or approved equal.”

And REPLACE with the following sentence:

“ Collapsible bollards shall be model R-7901 as manufactured by Reliance Foundry Co. Ltd., 6450 148 St #207, Surrey, British Columbia V3S7G7, Canada, tel. (888) 735-5680, or approved equal.”

19. SECTION 02851 – CONCRETE SEGMENTAL RETAINING WALL

- a. Page 02851-2, Paragraph 1.03, ADD the following new paragraph 1.03D:

“D. Submittals shall be made within 14 days of the Effective Date of the Agreement.”

CHANGES TO THE DRAWINGS

1. SHEET C-8 – DANE STREET

- a. ADD the new SHEET C-8 DANE STREET to the Contract Drawings (Attachment D).
(Cover Sheet and General Plan are hereby modified to add this sheet to the drawing list)

2. SHEET L-8 – DECATUR WAY ARBOR STRUCTURE

- a. ADD General Note 7 to read as the following:

“ Arbor structure shall be fabricated by Spector Metals, 608 South St., Holbrook, MA 02343, tel. (781) 767-5600, or approved equal. The fabricator and the installer employed by fabricator shall have demonstrated successful experience working together on at least 5 similar completed miscellaneous metal structures. Fabricator shall have been in business for at least 5 years.”

Attachment A

Replacement Section 00300 – Bid Form,
29 Pages

CITY OF LOWELL, MASSACHUSETTS
SEWER SEPARATION PROGRAM

DECATUR WEST SEWER STORMWATER MANAGEMENT
AND MARGINAL SEWER RELIEF PIPE
CONTRACT 15-01/IFB 15-78
CWSRF #3976

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that he has carefully examined all the Contract Documents as prepared by CDM Smith, 670 North Commercial Street, Suite 201, Manchester, NH 03101 and dated April 2015; that they have informed themselves fully in regard to all conditions pertaining to the Work and the place where it is to be done, and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part.

The time period for holding bids, where Federal approval is not required is 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids and where Federal approval is required, the time period for holding bids is 30 days, Saturdays, Sundays and holidays excluded after Federal approval.

The Bid Security accompanying this Bid shall be in the amount of 5 percent of the Bid. The Bid Security shall be sealed in a separate envelope from the Bid and then attached to the envelope containing the Bid.

If a Notice of Award accompanied by at least six unsigned copies of the Agreement and all other applicable Contract Documents is delivered to the undersigned within thirty days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the date of receipt of such notification, execute and return all copies of the Agreement and all other applicable Contract Documents to OWNER. The premiums for all Bonds required shall be paid by CONTRACTOR and shall be included in the Contract Price. The undersigned further agrees that the Bid Security accompanying this Bid shall become the property of OWNER if the Bidder fails to execute the Agreement as stated above.

The undersigned hereby agrees that the Contract Time shall commence ten days following the Effective Date of the Agreement and to fully complete the work within 400 Calendar Days and in accordance with the terms as stated in the Agreement. Portions of the work must be completed by July 17, 2015 and August 14, 2015 pursuant to existing temporary easements granting access for construction. Substantial Completion of the work, with the exception of final paving on city streets, shall be 172 Calendar Days, commencing on the Effective Date of the Agreement. The undersigned further agrees to pay OWNER, as liquidated damages, \$1,200 per day for each calendar day beyond the date of Substantial Completion, and the overall Contract Time, or extension thereof that the respective Work remains incomplete, in accordance with the terms of the Agreement.

The undersigned acknowledges receipt of addenda numbered:

<i>Addendum No.</i>	<i>Date</i>	<i>Acknowledgement</i>

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials and complete the Work in its entirety in the manner and under the conditions required at the prices listed as follows:

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.1a	50 lin. ft.	Furnish and install 12-inch PVC sewer pipe including earth excavation and backfill; All Depths		
		per linear foot	\$	\$
A.1b		<i>This item not used in Part A</i>		
A.1c	10 lin. ft.	Furnish and install 6-inch PVC or DI sewer service connections including earth excavation and backfill; All Depths		
		per linear foot	\$	\$
A.1d	3 vert. ft.	Furnish and install internal drop sewer manhole connections, including fittings; all sizes/types		
		per vertical foot	\$	\$
A.2a	70 lin. ft.	Furnish and install 8-inch DI Class 52 drain pipe including earth excavation and backfill; 0 to 8 feet deep		
		per linear foot	\$	\$
A.2b	405 lin. ft.	Furnish and install 12-inch PVC drain pipe (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; 0 to 8 feet deep		
		per linear foot	\$	\$

Subtotal Bid Page 00300-2 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.2c	215 lin. ft.	Furnish and install 12-inch PVC drain (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; over 8 feet deep	\$ _____	\$ _____
		_____ per linear foot		
A.2d	250 lin. ft.	Furnish and install 15-inch PVC drain pipe (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; 0 to 8 feet deep	\$ _____	\$ _____
		_____ per linear foot		
A.2e	220 lin. ft.	Furnish and install 18-inch PVC drain pipe (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; 0 to 8 feet deep	\$ _____	\$ _____
		_____ per linear foot		
A.2f	210 lin. ft.	Furnish and install 18-inch PVC drain pipe (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; over 8 feet deep	\$ _____	\$ _____
		_____ per linear foot		

Subtotal Bid Page 00300-3 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.2g	565 lin. ft.	Furnish and install 24-inch Class IV reinforced concrete drain pipe (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; 0 to 8 feet deep	\$ _____	\$ _____
		per linear foot		
A.2h	525 lin. ft.	Furnish and install 24-inch Class IV reinforced concrete drain pipe (or optional polypropylene pipe as specified in Section 02623) including earth excavation and backfill; over 8 feet	\$ _____	\$ _____
		per linear foot		
A.2i	255 lin. ft.	Furnish and install 2 foot high x 4 foot wide reinforced concrete drain box culvert including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		
A.2j	10 lin. ft.	Furnish and install 6-inch PVC or ductile iron drain pipe for catch basin connections including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		

Subtotal Bid Page 00300-4 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.2k	20 lin. ft.	Furnish and install 8-inch PVC or ductile iron drain pipe for catch basin connections including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		
A.2l	5 lin. ft.	Furnish and install 10-inch PVC or ductile iron drain pipe for catch basin including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		
A.2m	430 lin. ft.	Furnish and install 12-inch PVC or ductile iron drain pipe for catch basin including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		
A.2n	10 lin. ft.	Furnish and install 8-in. PVC drain service connections including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		
A.2o	45 lin. ft.	Furnish and install 10-in. PVC drain service connections including earth excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		

Subtotal Bid Page 00300-5 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.2p	1 each	Furnish and install 18-in. x 12-in. PVC drain wye connections	\$ _____	\$ _____
		each		
A.3a	255 lin. ft.	Furnish and install 4-inch and 8-inch restrained joint Class 52 cement-lined ductile iron water pipe including excavation and backfill; All Depths	\$ _____	\$ _____
		per linear foot		
A.3b	390 pounds	Furnish and install cement lined ductile iron restrained joint fittings, couplings, and caps for 4-inch thru 8-inch diameter ductile iron pipe	\$ _____	\$ _____
		per pound		
A.3c	3 each	Furnish and install 6-inch diameter gate valve and box	\$ _____	\$ _____
		each		
A.3d	1 each	Furnish and install new hydrant assemblies including: pipe, anchoring tee and elbow, gate valve with box and cover, restraint, earth excavation and backfill	\$ _____	\$ _____
		each		

Subtotal Bid Page 00300-6 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.3e	50 lin. ft.	Furnish and install 1-inch copper tubing service connections including earth excavation and backfill; All Depths _____	\$ _____	\$ _____
		per linear foot		
A.3f	5 each	Furnish and install 1-inch thru 2-inch corporation stops _____	\$ _____	\$ _____
		each		
A.3g	5 each	Furnish and install 1-inch thru 2-inch curb stops _____	\$ _____	\$ _____
		each		
A.3h	3 each	Water main offsets, all sizes _____	\$ _____	\$ _____
		each		
A.3i	2 each	20-inch pipe bell leak repair clamps, including excavation and backfill _____	\$ _____	\$ _____
		each		
A.4a	10 vert. ft.	Furnish and install 4-foot diameter precast concrete sewer manholes _____	\$ _____	\$ _____
		per vertical foot		
A.4b		<i>This item not used in Part A</i>		
A.4c		<i>This item not used in Part A</i>		

Subtotal Bid Page 00300-7 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.4d	140 vert. ft.	Furnish and install 4-foot diameter precast concrete drain manholes _____ per vertical foot	\$ _____	\$ _____
A.4e	60 vert. ft.	Furnish and install 5-foot diameter precast concrete drain manholes _____ per vertical foot	\$ _____	\$ _____
A.4f	20 vert. ft.	Furnish and install 8-foot diameter precast concrete drain manholes _____ per vertical foot	\$ _____	\$ _____
A.4g	1 each	Furnish and install new Type 'A' precast concrete catch basin, including new curb inlet stones _____ each	\$ _____	\$ _____
A.4h	1 each	Furnish and install new Type 'B' precast concrete catch basin _____ each	\$ _____	\$ _____
A.4i	1 each	Furnish and install new Type 'C' precast concrete catch basin with curb inlet stones and no frame and grate _____ each	\$ _____	\$ _____
A.5	8 cu. yds.	Test Pits _____ per cubic yard	\$ _____	\$ _____

Subtotal Bid Page 00300-8 \$ _____

CITY OF LOWELL, MASSACHUSETTS
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.6a	590 cu. yds.	Rock and Boulder Excavation Fixed Bid	\$ 95.00	\$56,050
		_____	_____	_____
		per cubic yard		
A.6b	590 cu. yds.	Rock and Boulder Excavation Additional Bid	\$	\$
		_____	_____	_____
		per cubic yard		
A.7	56 cu. yds.	Earth excavation below normal grade	\$	\$
		_____	_____	_____
		per cubic yard		
A.8a	1,650 cu. yds.	Bank-run gravel	\$	\$
		_____	_____	_____
		per cubic yard		
A.8b	75 cu. yds.	Screened gravel	\$	\$
		_____	_____	_____
		per cubic yard		
A.8c	75 cu. yds.	Crushed stone for utility crossings and miscellaneous purposes	\$	\$
		_____	_____	_____
		per cubic yard		
A.8d	75 cu. yds.	Common fill	\$	\$
		_____	_____	_____
		per cubic yard		

Subtotal Bid Page 00300-9 \$ _____

CITY OF LOWELL, MASSACHUSETTS
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.8e	75 cu. yds.	Sand for utility crossings and and miscellaneous purposes		
		_____	\$ _____	\$ _____
		per cubic yard		
A.9	l.s.	Connections to and work on existing sewer/drain piping systems		
		_____		\$ _____
		lump sum		
A.10	l.s.	Dewatering and Drainage		
		_____		\$ _____
		lump sum		
A.11a	50 cu. yds.	Miscellaneous Concrete		
		_____	\$ _____	\$ _____
		per cubic yard		
A.11b	50 cu. yds.	Controlled Density Fill		
		_____	\$ _____	\$ _____
		per cubic yard		
A.12a	2,465 sq. yds.	Furnish and install temporary trench width bituminous pavement (Binder; 3-inch thick)		
		_____	\$ _____	\$ _____
		per square yard		
A.12b	140 sq. yds.	Furnish and install final trench width bituminous pavement (2-inch Binder; 1.5-inch Top)		
		_____	\$ _____	\$ _____
		per square yard		

Subtotal Bid Page 00300-10 \$ _____

CITY OF LOWELL, MASSACHUSETTS
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.12c	8,925 sq. yds.	Cold plane (grind) full width pavement on streets/parking lots		
		per square yard	\$	\$
A.12d	8,925 sq. yds.	Furnish and install final full-width 1.5-inch overlay pavement (Top Course 1.5-inch thick)		
		per square yard	\$	\$
A.13	60 hrs.	Provide industrial street sweeper and operator		
		per hour	\$	\$
A.14	13 each	Core drill into existing manholes, drains, gravity wall or catch basins for 8 to 24 inch diameter pipes		
		each	\$	\$
A.15	10 lin. Ft.	Handling, removal and disposal of asbestos cement pipe		
		per linear foot	\$	\$
A.16a		<i>This item not used in Part A</i>		
A.16b		<i>This item not used in Part A</i>		
A.17	5 vert. ft.	Repair and/or rebuild existing manholes		
		per vertical foot	\$	\$

Subtotal Bid Page 00300-11 \$ _____

CITY OF LOWELL, MASSACHUSETTS
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.18	11 each	Furnish and install new hoods for existing catch basins	\$ _____	\$ _____
		each		
A.19	100 lin. ft.	Railroad Track Removal in Roadways including tracks, ties, disposal, track drains, etc.	\$ _____	\$ _____
		per linear foot		
A.20	l.s.	Furnish and install private property drain components at and from the house of hope property (#203 Salem Street)		\$ _____
		lump sum		

Subtotal Bid Page 00300-12 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.21	l.s.	<p>All work required to construct Decatur Way, excluding work described under items (A.1a thru A.20), B, and A.22. This item includes all work required for site preparation; furnishing and installing temporary construction fence; removal and disposal of excess soil disposal, vegetation, existing pavements and base material, gravel, fencing, walls, clearing and grubbing; and other miscellaneous items.</p> <p>This item also includes all work required for furnishing, installing and maintenance of erosion controls; rough and fine grading of all areas within the Decatur Way limit of work including furnishing and placement of loam and mulch; preparation of the base, drainage and stone layers, and furnishing and installing bituminous concrete pavement, concrete walk, and precast pervious concrete pavement; furnishing and installing chain link fence with concrete curb and with sleeve, concrete curb and accessible ramp, landscaping, segmental unit wall and steps, bollards, trench dams, HDPE barriers, 6" perforated pvc pipe, 6" solid pvc pipe, electrical conduit, pull boxes, stamped bituminous concrete, and all other miscellaneous Decatur Way work to provide all improvements as described in the contract documents.</p>		
Lump Sum				\$ _____

Subtotal Bid Page 00300-13 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
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BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
A.22	I.s.	Furnish and install arbor structure.		
		Lump Sum		\$200,000.00
A.23	I.s.	Furnish and install miscellaneous site improvements associated with Decatur Way		
		Lump Sum		\$50,000.00
A.24 thru A.26		<i>These items not used in Part A</i>		
A.27	I.s.	Miscellaneous Work and Cleanup - Part A		
		lump sum		\$
A.28	I.s.	Mobilization Part A- No greater than five percent of Total Bid Price for Part A excluding this item itself		
		Lump Sum		\$

Subtotal Bid Page 00300-14 \$ _____

CITY OF LOWELL, MASSACHUSETTS
DECATUR WEST STORMWATER MANAGEMENT
AND MARGINAL SEWER RELIEF PIPE
CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART A - DECATUR STORMWATER MANAGEMENT (BASE BID)

SUMMARY OF BID ITEMS

Subtotal of Bid Page 00300-14	\$ _____
Subtotal of Bid Page 00300-13	\$ _____
Subtotal of Bid Page 00300-12	\$ _____
Subtotal of Bid Page 00300-11	\$ _____
Subtotal of Bid Page 00300-10	\$ _____
Subtotal of Bid Page 00300-9	\$ _____
Subtotal of Bid Page 00300-8	\$ _____
Subtotal of Bid Page 00300-7	\$ _____
Subtotal of Bid Page 00300-6	\$ _____
Subtotal of Bid Page 00300-5	\$ _____
Subtotal of Bid Page 00300-4	\$ _____
Subtotal of Bid Page 00300-3	\$ _____
Subtotal of Bid Page 00300-2	\$ _____
TOTAL PART A BID PRICE	\$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
B.1a		<i>This item not used in Part B</i>		
B.1b	525 lin. ft.	Furnish and install 24-inch RCP sewer pipe including earth excavation and backfill; All Depths		
		per linear foot	\$	\$
B.1c		<i>This item not used in Part B</i>		
B.1d		<i>This item not used in Part B</i>		
B.2a thru B.2p		<i>These items not used in Part B</i>		
B.3a	80 lin. ft.	Furnish and install 4-inch and 8-inch restrained joint Class 52 cement-lined ductile iron water pipe including excavation and backfill; All Depths		
		per linear foot	\$	\$
B.3b	280 pounds	Furnish and install cement lined ductile iron restrained joint fittings, couplings, and caps for 4-inch thru 8-inch diameter ductile iron pipe		
		per pound	\$	\$
B.3c thru B.3i		<i>These items not used in Part B</i>		
B.4a	25 vert. ft.	Furnish and install 4-foot diameter precast concrete sewer manholes		
		per vertical foot	\$	\$
		<i>Transfer unit bid price from Item A.4a</i>		

Subtotal Bid Page 00300-16 \$ _____

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BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
B.4b	30 vert. ft.	Furnish and install 5-foot diameter precast concrete sewer manholes		
		per vertical foot <i>Transfer unit bid price from Item A.4b</i>	\$	\$
B.4c	l.s.	Furnish and install 6-foot diameter precast concrete doghouse sewer manhole		
		lump sum		\$
B.4d thru B.4i		<i>These items not used in Part B</i>		
B.5	25 cu. yds.	Test Pits		
		per cubic yard <i>Transfer unit bid price from Item A.5</i>	\$	\$
B.6a	375 cu. yds.	Rock and Boulder Excavation Fixed Bid		
		per cubic yard <i>Transfer unit bid price from Item A.6a</i>	\$ 95.00	\$35,625
B.6b	375 cu. yds.	Rock and Boulder Excavation Additional Bid		
		per cubic yard <i>Transfer unit bid price from Item A.6b</i>	\$	\$
B.7	25 cu. yds.	Earth excavation below normal grade		
		per cubic yard	\$	\$

Subtotal Bid Page 00300-17 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
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BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
B.8a	540 cu. yds.	Bank-run gravel		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.8a</i>		
B.8b	25 cu. yds.	Screened gravel		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.8b</i>		
B.8c	30 cu. yds.	Crushed stone for utility crossings and miscellaneous purposes		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.8c</i>		
B.8d	25 cu. yds.	Common fill		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.8d</i>		
B.8e	35 cu. yds.	Sand for utility crossings and miscellaneous purposes		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.8e</i>		
B.9		<i>This item not used in Part B</i>		
B.10	l.s.	Dewatering and Drainage		
		_____		\$ _____
		lump sum		
		<i>Transfer unit bid price from Item A.10</i>		

Subtotal Bid Page 00300-18 \$ _____

CITY OF LOWELL, MASSACHUSETTS
 DECATUR WEST STORMWATER MANAGEMENT
 AND MARGINAL SEWER RELIEF PIPE
 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
B.11a	25 cu. yds.	Miscellaneous Concrete		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.11a</i>		
B.11b	25 cu. yds.	Controlled Density Fill		
		_____	\$ _____	\$ _____
		per cubic yard		
		<i>Transfer unit bid price from Item A.11b</i>		
B.12a	810 sq. yds.	Furnish and install temporary trench width bituminous pavement (Binder; 3-inch thick)		
		_____	\$ _____	\$ _____
		per square yard		
		<i>Transfer unit bid price from Item A.12a</i>		
B.12b	1,215 sq. yds.	Furnish and install final trench width bituminous pavement (2-inch Binder; 1.5-inch Top)		
		_____	\$ _____	\$ _____
		per square yard		
		<i>Transfer unit bid price from Item A.12b</i>		
B.12c	6,335 sq. yds.	Cold plane (grind) full width pavement on streets/parking lots		
		_____	\$ _____	\$ _____
		per square yard		
		<i>Transfer unit bid price from Item A.12c</i>		
B.12d	6,335 sq. yds.	Furnish and install final full-width 1.5-inch overlay pavement (Top Course 1.5-inch thick)		
		_____	\$ _____	\$ _____
		per square yard		
		<i>Transfer unit bid price from Item A.12d</i>		

Subtotal Bid Page 00300-19 \$ _____

CITY OF LOWELL, MASSACHUSETTS
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 CONTRACT 15-01 / IFB 15-78 / CWSRF # 3976

BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
B.13		<i>This item not used in Part B</i>		
B.14		<i>This item not used in Part B</i>		
B.15		<i>This item not used in Part B</i>		
B.16a	470 tons	Removal and disposal of contaminated soil to an in-state unlined landfill Fixed Bid	\$ 35.00	\$ 16,450.00
		per ton		
B.16b	200 tons	Removal and disposal of contaminated soil to a lined landfill Fixed Bid	\$ 95.00	\$ 19,000.00
		per ton		
B.17 thru B.23		<i>These items not used in Part B</i>		
B. 24	l.s.	Furnish and install precast Marginal Sewer Relief Control Structure including all interior components and connections	\$ _____	\$ _____
		lump sum		
B.25	l.s.	Pipe jacking under railroad property		\$ _____
		lump sum		
B.26	14 days	Pan Am Inspection Services	\$ 800.00	\$ 11,200.00
		per day (FIXED)		
B.27	l.s.	Miscellaneous Work and Cleanup - Part B		\$ _____
		lump sum		
Subtotal Bid Page 00300-20				\$ _____

CITY OF LOWELL, MASSACHUSETTS
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 AND MARGINAL SEWER RELIEF PIPE
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BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Brief Description of Items With Unit Bid Price in Words</u>	<u>Unit Bid in Figures</u>	<u>Amount in Figures</u>
B.28	1.s.	Mobilization Part B- No greater than five percent of Total Bid Price for Part B excluding this item itself		
		Lump Sum		\$ _____

Subtotal Bid Page 00300-21 \$ _____

CITY OF LOWELL, MASSACHUSETTS
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AND MARGINAL SEWER RELIEF PIPE
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BID FORM ITEMS

PART B - MARGINAL RELIEF PIPE (ADD ALTERNATE)

SUMMARY OF BID ITEMS

Subtotal of Bid Page 00300-21	\$ _____
Subtotal of Bid Page 00300-20	\$ _____
Subtotal of Bid Page 00300-19	\$ _____
Subtotal of Bid Page 00300-18	\$ _____
Subtotal of Bid Page 00300-17	\$ _____
Subtotal of Bid Page 00300-16	\$ _____
TOTAL PART B BID PRICE	\$ _____

TOTAL PART A BID PRICE (Page 00300-15) \$ _____

TOTAL PART B BID PRICE (Page 00300-22) \$ _____

TOTAL BASE BID PRICE (PART A) \$ _____

**TOTAL BASE BID PRICE PLUS
ALTERNATE (PARTS A AND B)** \$ _____

Bidders to be considered responsive shall submit bids on the Base Bid (Part A) and on the Add Alternate (Part B) listed in the Bid Form. The low bidder will be determined by comparison of the Base Bid and the Base Bid Plus Alternate, if selected by the Owner.

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the General Conditions and Supplementary Conditions and will be paid for in accordance with Article 11 of the General Conditions and Supplementary Conditions.

The bidding and award of this Contract will be in accordance with the provisions of M.G.L., Chapter 30, Sec. 39M.

The undersigned must furnish a 100 percent Construction Performance Bond and a 100 percent Construction Payment Bond with a surety company acceptable to the Owner.

City of Lowell Certificate of Compliance Form shall be completed by the contractor and submitted with the Bid Form as part of the bid documents.

The undersigned will engage the pipe jacking specialty contractor named below to complete the installation of a sewer pipe and casing under the railroad tracks as shown on the Drawings:

(pipe jacking contractor)

The undersigned agrees to submit to the Owner and Engineer the qualifications package of the pipe jacking contractor (as identified in Section 02340) within three days of the bid opening if the bid is one of the two low bidders. Failure to comply with the requirements of this paragraph may be deemed to render a proposal non-responsive.

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

The names and residences of all persons and parties interested in the foregoing Bid as principals are as follows:

(Give first and last names in full. In the case of a corporation, see Article 8.3 of the Instructions to Bidders, in the case of a limited liability company (LLC), see Article 8.4 of the Instructions to Bidders, in the case of a partnership, see Article 8.5 of the Instructions to Bidders.)

The attached Department of Environmental Protection Diesel Retrofit Program Form (attached) must be completed and submitted as part of the Bid Proposal.

Pursuant to M.G.L. ch.62C, sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under law.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the

worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

The undersigned bidder hereby certifies he/she will comply with the specific affirmative action steps contained in the Equal Employment Opportunity/Affirmative Action (EEO/AA) provisions of this Contract, including compliance with the Disadvantaged Business Enterprise provisions as required under these contract provisions. The contractor receiving the award of the contract shall incorporate the EEO/AA provisions of this contract into all subcontracts and purchase orders so that such provisions will be binding upon each subcontractor or vendor. Bidders shall submit completed DBE forms (EEO-DEP-190 & EEO-DEP-191) with the Bid.

The Contractor agrees that it will fully comply with Subpart C of 2 CFR Part 180 and 2 CFR Part 1532, entitled Responsibilities of Participants Regarding Transactions (Doing Business with Other Persons). Contractors, subcontractors, or suppliers that appear on the Excluded Parties List System at www.sam.gov are not eligible for award of any contracts funded by the Massachusetts State Revolving Fund.

The undersigned hereby certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the word "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-Nine F of Chapter Twenty-Nine, or any other applicable debarment provisions of any other Chapter of the General Laws or any rule or regulation promulgated thereunder; and is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

Social Security Number or
Federal Identification Number

Signature of Individual or
Corporate Name

By: _____
Corporate Officer (if applicable)

Notice of acceptance should be mailed, faxed, or delivered to the following:

(Name)

By: _____

(Title)

(Business Address)

(City and State)

Date _____

Note: If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.

**APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM**

STATEMENT OF INTENT TO COMPLY

This form must be signed and submitted by the bidder as part of the bid.

Local Governmental Unit _____ **SRF Project No.** _____

Contract No. _____ **Contact Title** _____

Bidder _____

The undersigned, on behalf of the above-named Bidder, agrees that, if awarded the Contract:

1. the Bidder shall comply with the Department of Environmental Protection's ("DEP") Diesel Retrofit Program by ensuring that all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard;
2. the Bidder shall require all Subcontractors to comply with DEP's Diesel Retrofit Program by ensuring all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard; and
3. The Bidder shall submit and shall require each Subcontractor to submit a Diesel Retrofit Program Contractor Certification (form attached) with a Diesel Retrofit List to DEP (NAME and ADDRESS) and the Bidder within 10 days of the bidder being notified that it has been awarded the Contract. The Bidder shall require each Subcontractor to update such Certification and List within 2 days of using additional Diesel Construction Equipment on the project under the Contract.

(Signature of Bidder's Authorized Representative)

(Date)

CERTIFICATION OF COMPLIANCE
G.L.c.30, §39S
PUBLIC CONSTRUCTION MORE THAN \$10,000.00

I certify under the pains and penalties of perjury that:

1. the Contractor is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work;
2. all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration ("OSHA") that is at least 10 hours in duration and the time the employee begins works and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and
3. that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by OSHA that is at least 10 hours in duration.

Signature of Individual or Corporate
Name (Mandatory)

By: Corporate Officer
(Mandatory, if applicable)

Approval of a contract or other agreement will not be granted unless this certification clause is signed by the applicant.

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
 MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF MUNICIPAL SERVICES

SCHEDULE OF PARTICIPATION FOR SRF CONSTRUCTION

Project Title: _____ **Project Location:** _____

Disadvantaged Minority Business Enterprise Participation in the SRF Loan Work

Name & Address of D/MBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/MBE Commitment:		\$ _____
Percentage D/MBE Participation = (Total D/MBE Commitment) / (Bid Price) =		% _____

Disadvantaged Women Business Enterprise Participation in the SRF Loan Work

Name & Address of D/WBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/WBE Commitment:		\$ _____
Percentage D/WBE Participation = (Total D/WBE Commitment) / (Bid Price) =		% _____

The Bidder agrees to furnish implementation reports as required by MassDEP to indicate the D/MBEs and D/WBE(s) which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

Name of Bidder: _____

Date: _____ By: _____
Signature

NOTE: Participation of a DBE may be counted in only their certified category; the same dollar participation cannot be used in computing the percentage of D/MBE participation and again of D/WBE participation.

Attachment B

Replacement Section 01010 – Summary of
Work,
6 Pages

SECTION 01010

SUMMARY OF WORK

PART 1 GENERAL

1.01 LOCATION OF WORK

- A. The work of this Contract is located in the city of Lowell, Massachusetts in the Decatur West Stormwater Management and Marginal Sewer Relief Pipe areas as shown on the Drawings.

1.02 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required to construct drainage, sewer and water improvements in their entirety as shown on the Drawings and as specified herein.
- B. The Work includes, but is not necessarily limited to, the following:
 - 1. Furnish and install 8-inch, 10-inch, 12-inch, 15-inch, and 18-inch PVC (or optional polypropylene pipe as specified in Section 02623) drain pipe, as specified.
 - 2. Furnish and install 24-inch Class IV reinforced concrete pipe (RCP) (or optional polypropylene pipe as specified in Section 02623) drain pipe.
 - 3. Furnish and install 2 foot high by 4 foot wide reinforced concrete box culvert.
 - 4. Furnish and install 12-inch ductile iron (DI) drain pipe.
 - 5. Furnish and install pre-cast concrete drain manholes, riser sections, catch basins and other appurtenances.
 - 6. Plug, fill, and abandon existing drain, sewer, and catch basin laterals shown on drawings and as specified.
 - 7. Repair existing sewer services as shown on the drawings.
 - 8. Remove existing sewer and drains as shown on drawings.
 - 9. Install internal drop connections in sewer manholes as shown and detailed on the drawings.
 - 10. Furnish and install 12-inch PVC sewer pipe for sewer replacement work.
 - 11. Furnish and install pre-cast concrete sewer manholes and other appurtenances.
 - 12. Make connections, as required, to existing drains and sewers at locations as shown on the Drawings.

13. Connect existing inflow sources and install new private property drains and manholes as shown on drawings for the House of Hope properties (#203 Salem Street and #812 Merrimack Street).
14. Handle existing wastewater, storm water drain and drinking water flows with bypass pumping or other approved methods.
15. Furnish and install, including testing and disinfection, 6-inch and 8-inch restrained joint Class 52 ductile iron water main and appurtenances, 6-inch and 8-inch gate valves, and hydrant with anchor tee to replace existing pipe that must be relocated for the new drain, sewer and/or at utility crossing conflicts. Provide temporary water service during construction, as necessary or as identified on the Drawings.
16. Furnish and install 24-inch RCP Class IV sewer pipe for Marginal Sewer Relief Pipe.
17. Furnish and install Marginal Sewer Relief Pipe Flow Control Structure. Work includes but not limited to furnishing and installing the precast concrete vault, connections to the existing brick Marginal Street Sewer, connection to new 24-inch diameter sewer relief pipe, manhole frames and covers, all internal components including stop logs and guides, dry weather underflow pipe, formed channels, grout, brick inverts, and brick flow berms.
18. Furnish and install a 48-inch diameter steel casing pipe under the Massachusetts Bay Transportation Authority (MBTA) railroad (operated by Pan Am Railways) as shown on the drawing and specified including the 24-inch diameter Class V RC sewer pipe, jacking and receiving pits and all necessary incidental work.
19. Furnish and install a 6-foot diameter doghouse manhole for the connection of the Marginal Relief Sewer Pipe to the Walker Interceptor.
20. Remove and replace trees with caliper and species as shown on the drawings.
21. Remove trees as shown on the drawings.
22. Protect light poles and other above surface items as indicated on drawings.
23. Remove and replace existing fence along Decatur Way. This work shall be coordinated with owner.
24. Furnish and install temporary construction entrance for construction of Marginal Sewer Relief Pipe and remove entrance and restore area to its original condition after the work is completed. Remove and reinstall existing ornamental fence along Pawtucket Street to allow for temporary construction entrance. Remove adjacent chain link fence and replace with ornamental fence along Pawtucket Street as shown on the drawings.
25. Furnish and install initial/temporary trench width pavement over excavations and final trench-width pavement (House of Hope property easement), or final full-width cold plane and 1.5-inch overlay over most city streets and University of Massachusetts Lowell (UML) South Campus parking lot, as specified. Remove cobblestones, reinforced concrete subbase, and/or abandoned railroad tracks to facilitate construction and pavement work.

26. Remove underground brick and concrete building foundations as shown on the drawings and as may be encountered during construction.
27. Test, inspect, and clean new sewer, drain, and water lines.
28. Comply with the conditions stated in the Lowell Conservation Commission Order of Conditions related to the Marginal Sewer Relief Pipe. Furnish, install and maintain all temporary erosion and siltation control for the duration of the project.
29. Restore all public and private disturbed areas to pre-construction conditions and as directed.
30. Furnish and install the Decatur Way green alley. This work includes clearing and grubbing, grading, stone reservoir for infiltration basin, underdrains and trench dams within the stone reservoir, pre-cast pervious concrete panels with specified aesthetic features, cast-in-place impervious concrete with bedding material, electrical lighting conduit with handholes and knockouts for a future lighting project, access and decorative bollards, retaining walls, curbing, stone stairs, railing, and fencing as shown on the Drawings and as specified. The work also includes two allowances for additional above-grade features (an arbor and other above-grade cultural and arts features) along the alleyway that will be coordinated with the Contractor during construction.
31. Perform miscellaneous work and cleanup as specified to complete the project.
32. Obtain and comply with the conditions of all permits required for the project, including the NPDES Construction Dewatering Permit, and NPDES Stormwater Permit for Construction Activities.
33. Coordinate all work on or near UML property as shown on the drawings with university officials. Decatur West Stormwater Management area contact: Dirk van Luling, UML Facilities Management and Planning, at 978-934-3553. Marginal Sewer Relief Pipe area contact: Fred Gavriel, UML Facilities Management and Planning, at 978-934-4834.
34. Coordinate all work on or near UML property with separate contractor engaged by UML for the University Crossing Parking Lot Expansions project along Dane and Salem Street and the cross-country work easement at 231 Salem Street.
35. Coordinate all work on or near House of Hope property as shown on the Drawings. Contact: John Dery, Maintenance Supervisor, 812 Merrimack Street, Lowell, MA 01854, 978-458-2870.
36. Coordinate all work on or near railroad with Pan Am prior to the commencement of the project. General Contact: Shawn Higgins at Pan Am Railways, 978-663-1127. The contractor will be required to execute a Standard Railroad Service Contract with Pan Am Railways and provide an acceptable Railroad-protective insurance policy to Pan Am Railways Real Estate Department prior to scheduling work. Contact Mike Twidle at 978-663-6937 for coordination of all Real Estate requirements. Coordinate Railroad Flagging/Inspection requirements upon finalization of the appropriate documentation with Pan Am Railways Real Estate Department by contacting Keith Kady at 978-808-7413.

37. Coordinate water main work as shown on the Drawings with the Lowell Regional Water Utility. Contact: Bob Hogue, 815 Pawtucket Boulevard, Lowell, MA 01854, 978-674-1682.
38. Coordinate temporary and final pavement work with the City of Lowell Engineering Department. Contact: Lisa DeMeo, 375 Merrimack Street, Lowell, MA 01852, 978-970-3331
39. Coordinate gas main relocation work with National Grid. Contact: Lien Gauthier, 40 Sylvan Road, Waltham, MA 02451, 617-438-9069.
40. Coordinate electrical work shown on drawings and necessary work identified during the execution of the project with National Grid.
41. Coordinate telephone work shown on drawings and necessary work identified during the execution of the project with Verizon. Contact: Carolyn Metcalf at 978-323-0281.
42. Coordinate with Lowell Regional Transit Authority at 978-452-6161 to maintain local public transportation routes.
43. Prepare, submit, and implement Traffic Management Plans as specified.

1.03 WORK BY OTHERS

- A. The Contractor shall coordinate the work on this project with other utility work along city streets including, but not limited to:
 1. National Grid - The locations where National Grid will relocate/replace and remove gas lines and services are shown on the Drawings. Additional gas line replacements may be identified during execution of the project and will need to be coordinated with National Grid.
 2. UML and its construction contractor engaged to complete parking lot and drainage improvements in the area in the University Crossing Parking Lot Expansions project involving work along Dane Street and Salem Street. In addition, the UML contractor will be installing drain, sidewalks, and curbing along Dane Street between Fletcher Street and Gage Street and curbing and sidewalks along the north side of Dane Street between Gage Street and Salem Street.

1.04 WORK SEQUENCE

- A. The following work sequence is based on the owner's INTENT of the signed contract agreement by June 1, 2015.
- B. Work in the Decatur West Stormwater Management area for all of Dane Street (Sheet C-8) shall be completed by July 17, 2015, excluding final pavement. This includes drain and water main work, and any associated utility relocations along the street and work area.

- C. Work within the Decatur West Stormwater Management area for all of Salem Street (Sheet C-5) and work from DMH 4-1 to DMH 4-4, as shown on Sheet C-4, shall be completed by August 14, 2015 (the expiration date of the temporary construction easement granted for the work at 231 Salem Street), excluding final pavement on city streets. The work is predominately along a cross country area thru the temporary construction (and permanent) easement at #231 Salem Street and along Decatur Way. Work to be completed by this date includes drain installation, restoration, and any site grading and stormwater management improvements associated with Decatur Way as shown on the L-sheets, with the exception of the installation of the arbor itself (footings shall be installed). This work shall also be closely coordinated with UML and its contractor performing the concurrent work on the adjacent Merrimack Street Parking Lot Extension project. The connection to the drainage system from the Merrimack Street Parking Lot Stormwater Infiltration Basin will be temporarily plugged at the connection DMH 4-3 until the drainage system is advanced further downstream (to a point where a temporary connection can be made to the sewer system).

Work along Salem Street shall be closely coordinated with UML. There are temporary construction easements that expire. In addition, there are substantial facility operations that occur at University Crossing (at the block bounded by Salem Street, Pawtucket Street and Merrimack Street) on a daily basis. There are a significant number of students, employees and visitors that utilize University Crossing and access it via a number of crosswalks along Salem Street from adjacent UML parking lots. Pedestrian access to the building and crosswalks along Salem Street must be maintained during construction. Detours of these pedestrian routes may be temporarily disrupted upon submittal and approval (by UML, Owner, and Engineer) of pedestrian access control plans (with appropriate signage identifying alternative pedestrian access routes). There is a significant number of vehicles entering UML's parking facilities behind the University Crossing building (Merrimack Lot) and in the Salem Lot (bounded by Dane Street, Fletcher Street, Salem Street, and Pawtucket Street). Access to the lot via the Salem Street entrance must be maintained at all times; temporary closures may be granted for adjacent construction with the approval of UML. In addition, access must be maintained to the loading dock on Salem Street at the University Crossing building. Temporary closure of the loading dock may be granted by UML when there is adjacent construction of the work (if adequate notification is provided by the Contractor); however, the Contractor shall maintain loading dock access from 5:30 AM ET to 8:30 AM ET during the workweek.

The Contractor shall submit and maintain traffic control plans as construction progresses along Salem Street to minimize city-wide traffic disruptions and maintain access to UML parking lots and facilities. The traffic control plans will require approval by UML, Lowell Police Department, and LRWWU. Temporary full closures of Salem Street may be granted with full detour signage; during the remaining periods of work, at least a single lane of traffic must be maintained along Salem Street. Traffic Management Plans shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices, prepared and stamped by a Professional Engineer, registered in the Commonwealth of Massachusetts.

- D. Work in and the entire Marginal Relief Pipe and Structure area (Sheets C-6 and C-7), including the installation of the sewer crossing under the railroad shall be completed by August 14, 2015 (the expiration date of the temporary construction easement for the project work on UML property), excluding final pavement of Pawtucket Street, Marginal Street and Foster Street. A separate temporary construction entrance to the South Campus Parking lot site will be provided as shown on the drawings; the site shall be fully restored by the date including cold planning,

1.5-inch overlay final pavement, re-installation of existing and installation of new ornamental fence, and restriping of the parking lot. This includes drain, sewer, water main work, and any associated utility relocations along the following streets and work areas.

- E. Allowable work hours shall be Monday through Saturday, excluding holidays, between 7:00 AM to 7:00PM. Requests to work other than regular working hours shall be submitted to Engineer not less than 48 hours prior to any proposed weekend work or scheduled extended work weeks.

1.05 RESTRICTED WORK AREAS

- A. No work will be allowed at South Campus Parking lot site within the temporary construction easement shown on Sheet C-6 after August 14, 2015 and all materials and equipment must be removed as the license agreement to perform work at this site will expire.

1.06 CONTRACTOR'S USE OF PREMISES

- A. Contractor shall limit the use of the premises for his/her Work and for storage to allow for:
 - 1. Work by other contractors.
 - 2. Owner occupancy
 - 3. Public use.
- B. Coordinate use of premises with Engineer.
- C. Contractor shall assume full responsibility for security of all their own materials and equipment stored on the site, as well as those of his/her subcontractors.
- D. If directed by the Engineer, move any stored items that interfere with operations of Owner or other contractors.
- E. Obtain and pay for use of additional storage or work areas if needed to perform the Work.

1.07 OWNER OCCUPANCY

- A. Owner will occupy premises during performance of the work for the conduct of his/her normal operations. Coordinate all construction operations with Engineer to minimize conflict and to facilitate Owner usage.

END OF SECTION

Attachment C

Replacement pages 02576 – Pavement
Repair and Resurfacing,
2 Pages

City of Lowell, MA
Decatur West Stormwater Management and Marginal Sewer Relief Pipe
Final Pavement Summary

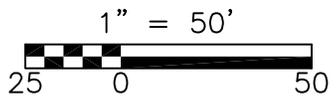
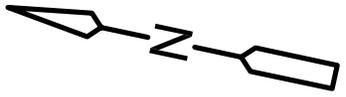
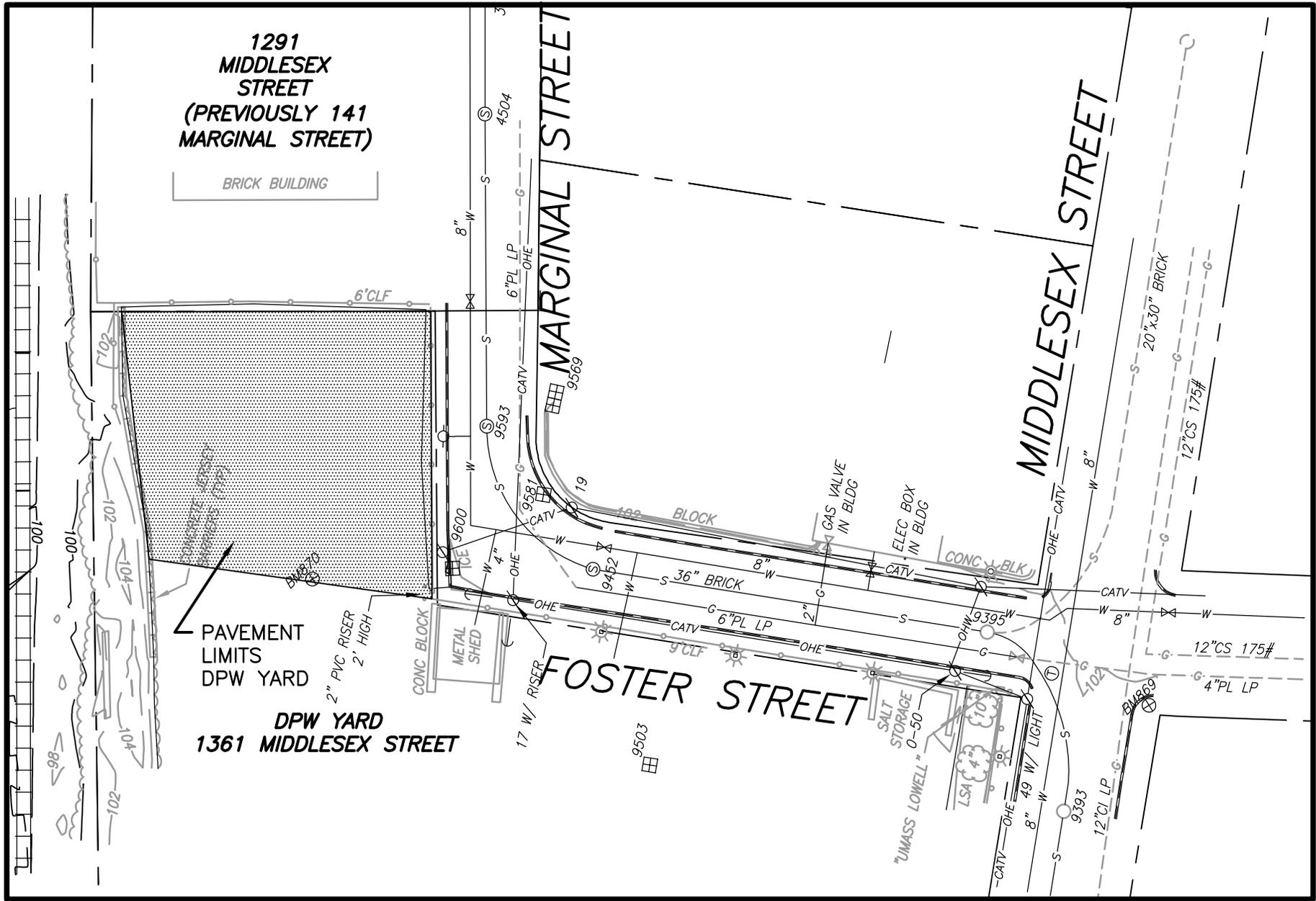
DECATUR WEST AREA - PAVEMENT SCHEDULE

Area	Street Name	From Street	To Street	Final Pavement Work
Decatur West	Father Morissette Boulevard	Impacted area only	Impacted area only	Cold Plane and 1.5" Overlay
Decatur West	James Street	End of work area	Moody Street	Cold Plane and 1.5" Overlay
Decatur West	Moody Street	End of work area	Spaulding Street	Cold Plane and 1.5" Overlay
Decatur West	Spaulding Street	Moody Street	Merrimack Street	Cold Plane and 1.5" Overlay
Decatur West	Merrimack Street	Spaulding Street	End of work area	Cold Plane and 1.5" Overlay
Decatur West	House of Hope Easement (20 Foot Wide Easement)	Merrimack Street	Decatur Way	Final Trench Paving; Infra-red Seal between Existing Pavement and Overlay
Decatur West	Salem Street	Bowers Street	Pawtucket Street	Cold Plane and 1.5" Overlay

MARGINAL SEWER AREA - PAVEMENT SCHEDULE

Area	Street Name	From Street	To Street	Final Pavement Work
Marginal Sewer	Foster Street (see figure 1)	Middlesex Street	Marginal Street	Cold Plane and 1.5" Overlay
Marginal Sewer	Marginal Street	Foster Street	1291 Middlesex Street Property Line	Cold Plane and 1.5" Overlay
Marginal Sewer	Cross Country - DPW yard	See figure 1	See figure 1	Final Pavement
Marginal Sewer	UML South Campus Parking Lot	Entire Temporary Easement	Entire Temporary Easement	Cold Plane and 1.5" Overlay; Infra-red Seal between Existing Pavement and Overlay
Marginal Sewer	Pawtucket Street	Impacted area shown on Sheet C-6	Impacted area shown on Sheet C-6	Cold Plane and 1.5" Overlay

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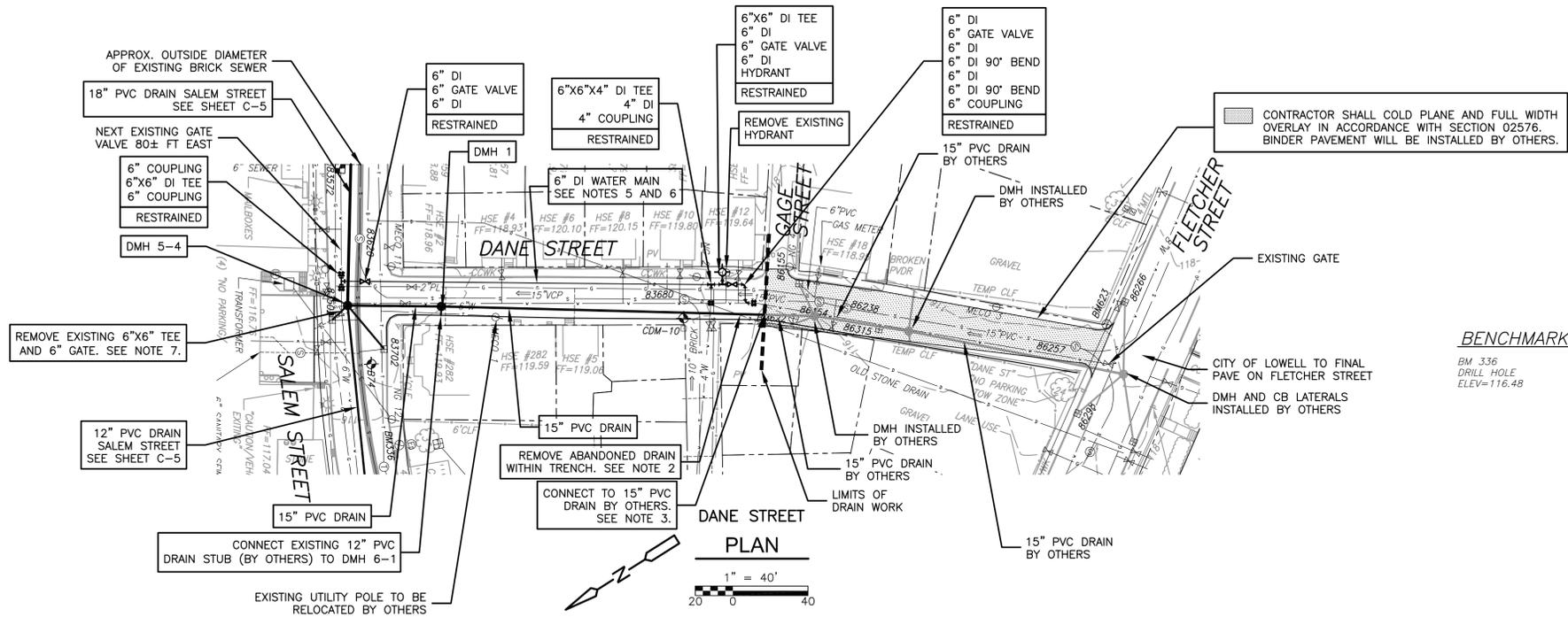
SECTION 02576 FIGURE NO. 1

APRIL 2015

Attachment D

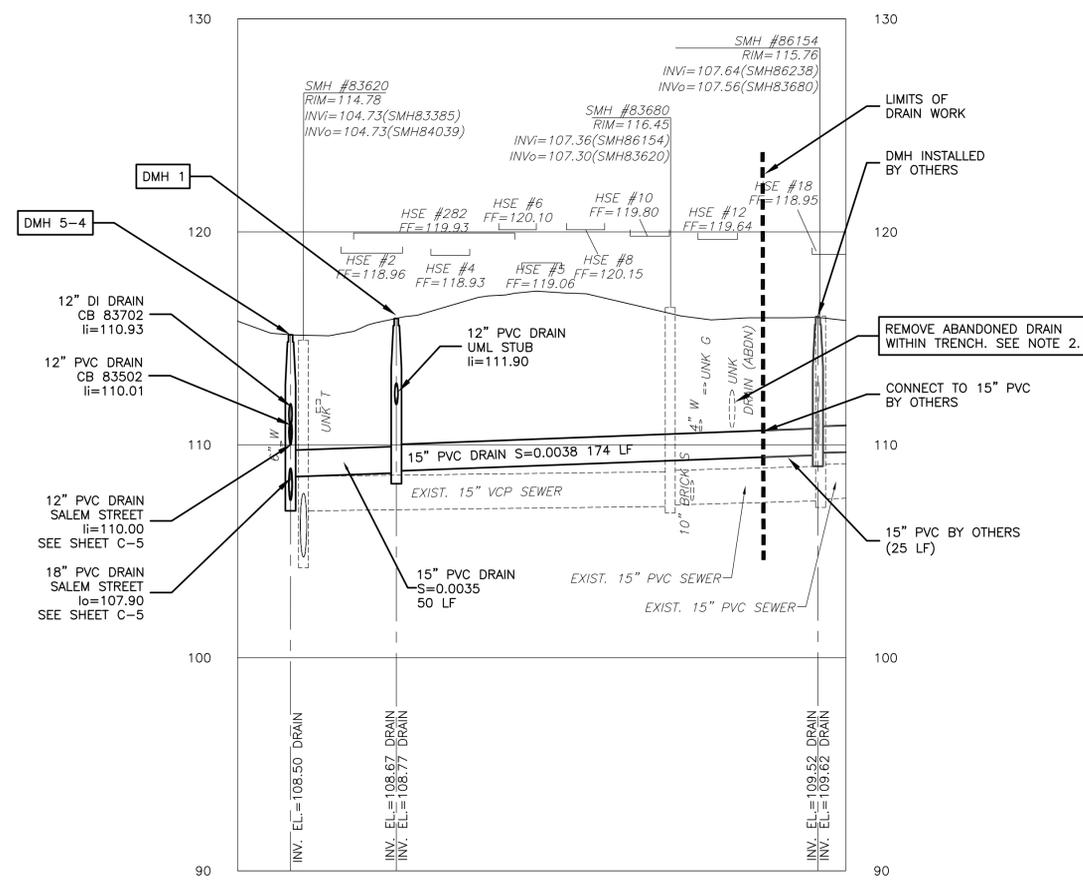
Sheet C-8 Dane Street

XREFS: [CDMS_2436; Conceptual_WP_Jan2015; Borings_2011; 2015 03 10 30055-06 decatur FINAL] Images: []
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BENCHMARKS

BM 336 DRILL HOLE ELEV=116.48	BM 622 MAG NAIL ELEV=116.03	BM 623 MAG NAIL ELEV=116.34
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- NOTES:**
- FOR SCHEDULE OF CATCH BASIN WORK, SEE SHEET D-4 UNLESS OTHERWISE NOTED.
 - REMOVE ABANDONED DRAIN, BULKHEAD AND ABANDON AT TRENCH LIMITS AS PER SECTION 02658. EXCAVATE UNSUITABLE MATERIALS AS DETERMINED BY THE ENGINEER.
 - NEW DRAINS IN DANE STREET FROM FLETCHER STREET TO GAGE STREET TO BE INSTALLED BY OTHERS AS SHOWN IN APPROXIMATE LOCATIONS PER NITSCHE PLANS. ACTUAL LOCATIONS MAY VARY IN CONSTRUCTION DEPENDING ON EXISTING CONDITIONS AND UTILITY IMPACTS. COORDINATE WITH OTHER CONTRACTOR FOR FINAL CONNECTION LOCATION.
 - EXISTING UNDERGROUND TELECOMMUNICATION DUCT ON DANE STREET TO BE ABANDONED. REMOVE DUCT AS NECESSARY TO INSTALL NEW DRAIN.
 - HOUSES ON WESTSIDE OF DANE STREET TO BE DEMOLISHED. CONNECT NEW SERVICES TO NEW WATER MAIN FOR HOUSES ON EASTSIDE OF DANE STREET (TYPICAL OF 5). HOUSE #18 SERVICE TO REMAIN CONNECTED TO EXISTING WATER MAIN.
 - TEMPORARY SERVICE MAY BE NECESSARY FOR HOUSES #12 AND #18 DURING INSTALLATION OF NEW WATER MAIN AND DISINFECTION OF WATER MAINS ON DANE STREET.
 - AFTER INSTALLATION OF WATER SERVICES TO NEW WATER MAIN ON DANE STREET IS COMPLETED REMOVE OLD 6"x6" TEE AND 6" GATE VALVE ON SALEM STREET AND REPLACE 6" DI PIPE AND COUPLINGS. COORDINATE SHUTDOWNS WITH LOWELL REGIONAL WATER UTILITY (LRWU).

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. LAVOIE
 DRAWN BY: S. CAREY
 SHEET CHK'D BY: D. FREEMAN
 CROSS CHK'D BY: J. DRAKE
 APPROVED BY: J. DRAKE
 DATE: APRIL 2015



LOWELL REGIONAL WASTEWATER UTILITY
 LOWELL, MASSACHUSETTS
DECATUR WEST STORMWATER MANAGEMENT AND MARGINAL SEWER RELIEF PIPE

DANE STREET
 SHEET NO. **C-8**
 0552-107165
 CO08STPP.DWG
 0552-80278A

