

SECTION 00 91 13

ADDENDUM NO. 2

NOTICE is hereby given to prospective Bidders of the following information, clarifications, and modifications to the Bidding Documents. The Bidding Documents remain unchanged except as indicated below. Bidders must acknowledge receipt of this Addendum in the Bid Form and comply with the requirements for submission of Bids as set forth in the Bidding Documents.

NOTICE is hereby given that the Bidding Documents have been modified as follows.

Replacement pages are issued herewith, have an Issue Date of August 19, 2016, contain reference to “ADDENDUM NO. 2” in the footer, and text changes identified by double-underline for additions and ~~Strikeout~~ for deletions.

Replacement pages (with text changes)	Provided for purposes of double-sided printing only - no changes (front or back of replacement page)
00 11 16-1	00 11 16-2
00 43 22-2	00 43 22-1
00 52 10-13	00 52 10-14
01 20 25-6	01 20 25-5

The following replacement drawing(s) are reissued herewith in their entirety, have an Issue Date of August 19, 2016, contain reference to “ADDENDUM NO. 2” in the title block, and all changes identified by revision clouds for additions and deletions.

Drawing Sheet(s):
C-114

This Addendum is provided to Bidders in a single Portable Document Format (.PDF) posted on the Engineer’s FTP site and will be available for examination at the Issuing Office. It is each Bidder’s responsibility to check the FTP site for Addenda per the Instructions to Bidders.

Prepared and Issued by Woodard & Curran (Engineer) on behalf of:

City of Lawrence, Massachusetts
200 Common Street
Lawrence, Massachusetts 01840

SECTION 00 11 16

INVITATION TO BID

The City of Lawrence (Owner) invites Bidders to submit sealed Bids for Sewer System Rehabilitation and Improvements – Contract II, CWSRF 3919 which includes, but is not limited to:

Sewer pipe and manhole rehabilitation work includes the replacement of approximately 6,330 linear feet (LF) of gravity sewer, the installation of approximately 1,855 LF of cured-in-place pipe, replacement of approximately 660 LF of 12 inches RCP storm drain, as well as water main and gas main relocation work. The 6,330 LF of gravity sewer is of various sizes including 1,500 LF of 8 inches, 20 LF of 10 inches, 1,450 LF of 12 inches, 2,700 LF of 18 inches and 660 LF of 36-inch gravity sewer throughout the City of Lawrence; which includes all temporary bypass pumping, plugging of flows, appurtenances, excavation, trench support, backfilling, restoration, paving, environmental protection, and all material and equipment, services and construction inherent to the Work to complete the Project.

The Work shall be substantially complete within 365 calendar days from the commencement of Contract Time, Post Substantial Completion Punchlist complete (all Work except Warranty Inspection and final paving) within ~~400~~550 calendar days from the commencement of Contract Time and Warranty Inspection and final paving Warranty Repair complete (ready for final payment) within 14 calendar days prior to expiration of the Warranty Period (351 days from Substantial Completion).

The Project being bid is subject to Massachusetts General Laws, Chapter 30, Section 39M.

This Project is to be funded in part with monies made available by the Clean Water State Revolving Fund (SRF) and is to be funded in part by the Massachusetts Clean Water Trust (the “Trust”), and compliance with the following is required: Environmental Protection Agency’s (EPA) Diesel Retrofit Program; EPA/Massachusetts Department of Environmental Protection (MassDEP) Division of Municipal Services (DMS) Disadvantaged Business Enterprise Program; the American Iron and Steel requirements of P.L. 113-76 (the Consolidated Appropriations Act of 2014); and Federal Minimum Wage Rates as determined by the United States Department of Labor under the Davis-Bacon Act; and other MassDEP/DMS provisions and policies.

A mandatory pre-Bid conference will be held at 1 p.m. local time on August 11, 2016 at the office of Woodard & Curran, 40 Shattuck Road, Suite 110, Andover, MA 01810. **Bidders are required to attend and participate in the conference.** Bids will not be accepted from Bidders that are not recorded as having attended the pre-Bid conference.

Sealed Bids will be received until 11 a.m. local time on August 25, 2016 at Owner’s offices, **Purchasing Department, 200 Common Street, Room 301, Lawrence, Massachusetts 01840, Attention: Rita Brousseau, Purchasing Agent.** Bids will then and there be publicly opened and read aloud. Bids received after the time of announced opening will not be accepted.

Sets of Bidding Documents may be examined at the following location(s) on or after August 3, 2016 at 9 a.m.

Owner's offices:
Purchasing Department
200 Common Street, Room 301
Lawrence, MA 01840

Issuing Office:
Woodard & Curran
40 Shattuck Road, Suite 110
Andover, MA 01810

Sets of Bidding Documents may be obtained on or after August 3, 2016 at 9 a.m.

electronically at no cost via the Engineer's FTP site by registering via email with the Engineer at dandrews@woodardcurran.com to be included on the Bidder's list. FTP site login information will then be provided to all parties on the Bidder's list which will be maintained by the Engineer at the Issuing Office.

and

in hardcopy from Issuing Office as follows.

Non-refundable purchase price for each set of Bidding Documents: \$100 payable by check or money order to City of Lawrence, Massachusetts.

Non-refundable charge for delivery of Bidding Documents by mail or delivery service: Additional \$50 payable by certified check, treasurer's or cashier's check, or money order to City of Lawrence, Massachusetts.

Complete sets of Bidding Documents shall be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of the incomplete sets of Bidding Documents or for modifications to the Bidding Documents including electronic conversion.

Bid security in the amount of 5 percent of the Bid must accompany the Bid in accordance with the Instructions to Bidders.

SECTION 00 43 22

UNIT PRICES FORM

Provide unit pricing for each Bid item in both words and figures. Provide Bid item totals in figures. Discrepancies between prices written in words and prices written in figures will be resolved in favor of prices written in words. Discrepancies between the multiplication of estimated quantities and unit prices will be resolved in favor of the unit prices.

BID PRICES SHALL EXCLUDE SALES AND USE TAX.

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity & Unit	Unit Bid Price (Figures)	Total Bid Item Price (Figures)
1	Mobilization and Demobilization (not to exceed 5% of Items 2 through 25, excludes Items 26, 27 and 28)	1		
	@ _____	LS		
	_____ Dollars and _____ Cents PER LUMP SUM			
2.a	8-inch Gravity Sewer	1,500		
	@ _____	LF		
	_____ Dollars and _____ Cents PER LINEAR FOOT			
2.b	10-inch Gravity Sewer	20		
	@ _____	LF		
	_____ Dollars and _____ Cents PER LINEAR FOOT			
2.c	12-inch Gravity Sewer	1,450		
	@ _____	LF		
	_____ Dollars and _____ Cents PER LINEAR FOOT			
2.d	18-inch Gravity Sewer	2,700		
	@ _____	LF		
	_____ Dollars and _____ Cents PER LINEAR FOOT			
2.e	36-inch Gravity Sewer	660		
	@ _____	LF		
	_____ Dollars and _____ Cents PER LINEAR FOOT			

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity & Unit	Unit Bid Price (Figures)	Total Bid Item Price (Figures)
3.a	6-inch SDR 35 PVC Sewer Service Lateral	600		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
3.b	6-inch SDR 21 PVC Sewer Service Lateral	20		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
3.c	8-inch SDR 35 PVC Sewer Service Lateral	20		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
3.d	8-inch SDR 21 PVC Sewer Service Lateral	20		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
4.a	10-inch Cured-In-Place-Pipe (CIPP)	600		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
4.b	15-inch Cured-In-Place-Pipe (CIPP)	280		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
4.c	18-inch Cured-In-Place-Pipe (CIPP)	675		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			
4.d	26x32-inch Foster Street Cured-In-Place-Pipe (CIPP)	300 <u>296</u>		
	@ _____	LF		
	Dollars and _____ Cents PER LINEAR FOOT			

SCHEDULE C

WORK PROGRAM AND SCHEDULE

ARTICLE C1 – CONTRACT TIMES

- A. The Work shall be substantially complete within 365 calendar days from the commencement of Contract Time as provided in Paragraph 2.03.
- B. The Post Substantial Completion Punchlist shall be complete in accordance with Paragraph 14.07 of the Standard General and Supplementary Conditions (all Work except Warranty Inspection and final paving) within ~~400~~550 calendar days from the commencement of Contract Time.
- C. The Work shall be ready for final payment in accordance with Paragraph 14.10 of the Standard General and Supplementary Conditions (Warranty Inspection and final paving complete) 14 calendar days prior to expiration of the Warranty Period (351 days from Substantial Completion).

ARTICLE C2 - LIQUIDATED DAMAGES

- A. Contractor and Owner recognize that time is of the essence and that Owner will suffer financial loss if the Work is not completed within the times specified in Article 2 of the Agreement, plus any extensions thereof allowed in accordance with Article 12 of the Standard General Conditions and Supplementary Conditions, if any. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty), Contractor shall pay Owner as follows.
 - 1. \$1,000 for each day that expires after the time specified in Paragraph C1.A above for Substantial Completion until the Work is substantially complete.
 - 2. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work except for Warranty Inspection and final paving (Post Substantial Completion Punchlist Completion) within the Contract Time or any proper extension thereof granted by Owner, Contractor shall pay Owner \$1,000 for each day that expires after the time specified in Paragraph C1.B above.
 - 3. If Contractor shall neglect, refuse, or fail to complete the Warranty Inspection and final paving within the Contract Time specified in Paragraph C1.C above or any proper extension thereof granted by Owner, Contractor shall pay Owner an amount equal to 2 percent of the total Contract Price.

- B. Actual Damages: The sewer system must continue to operate during the construction period and Contractor shall provide bypass as specified. Contractor shall pay actual damages incurred by Owner for 1) non-compliance with the permits; 2) failure to maintain operation of the sewer system; and 3) other damages directly related thereto.

ARTICLE C3 - ATTACHMENTS TO SCHEDULE C

[INSERT from Bid after this page]

Proposed Schedule and Work Plan

<p style="text-align: center;">ITEMS: 3.a. – 6-inch SDR 35 PVC Sewer Service Lateral 3.b. – 6-inch SDR 21 PVC Sewer Service Lateral 3.c. – 8-inch SDR 35 PVC Sewer Service Lateral 3.d. – 8-inch SDR 21 PVC Sewer Service Lateral</p>	
Measurement	As measured along the horizontal projection of the centerline of the pipe
Payment	Unit price per linear foot installed complete in place and tested.
Schedule of Payment	Monthly based on progress; 80 percent upon installation, 10 percent upon receipt of positive test results, 10 percent upon final cleanup and acceptance.
<p>Includes but is not limited to all labor, tools, equipment, excavation and backfill, bedding, shoring/bracing and wood sheeting left in place, saw cutting, furnishing, handling and installation of materials, couplings, loam and seed, tree trimming, removing and replacing signs, fences and mailboxes, removing and resetting granite curbing, sidewalk replacement, replacement of asphalt berm, driveway repairs, removal and replacing guardrails, up to 3 feet of asphalt aprons for driveways and gravel resurfacing, dust controls, furnishing and installing the pipe; pavement cutting, removal and disposal of pavement, clearing and grubbing, removal and disposal of existing service lateral pipe, pipe bedding and blanket, backfill and compaction, shoring and bracing, clay dams, service lateral wyes, reconnecting the existing sewer service lateral, replacement of marked utility services to the curb line unless directed otherwise by the Engineer; replacement of marked drain lines, pipe jacking, horizontal directional drilling, carrier pipes, if needed, to meet horizontal and vertical separation requirements from water mains or to cross culverts, bypass pumping of sewer flows, testing, insulation as specified and shown on the Drawings or as directed by the Engineer, also includes landscape restoration, loam and seed and all other Work incidental to installing pipe not specified to be paid for under a separate pay item.</p>	

ITEMS:	
4.a. – 10-inch Cured-In-Place Pipe (CIPP)	
4.b. – 15-inch Cured-In-Place Pipe (CIPP)	
4.c. – 18-inch Cured-In-Place Pipe (CIPP)	
4.d. – 26x32-inch <u>Foster Street</u> Cured-In-Place Pipe (CIPP)	
Measurement	Actual number of linear feet of each pipe size lined, measured from the interior walls of the manholes
Payment	Unit price per linear foot
Schedule of Payment	Monthly based on progress up to 90 percent; 10 percent at final warranty inspection
<p>Material and equipment, services, installation, and construction associated with the placement of cured-in-place pipe (CIPP) as specified in Section 33 01 30.72, including removing and reconstructing the top sections of manholes as necessary to facilitate access for lining and other incidental Work. Additional expenses related to alternative hours worked to perform Work during low flow; pre- and post-installation CCTV inspection; pipe cleaning; the storage, testing, and disposal of any material resulting from the cleaning and inspection process; environmental controls; and bypass pumping or redirecting of existing flows shall be considered incidental to the Work and shall not be measured separately for payment. Includes excavation and trenching associated with bypass pumping. Warranty inspection which includes cleaning and CCTV of CIPP is also included. Excludes cutting of protruding service connections measured and paid under Item 5. Bypass pumping for the 10-inch, 15-inch and 18-inch CIPP portion on Water Street is excluded from Items 4.a., 4.b., and 4.c., respectively and included in Item 25. <u>Item 4.d. is an irregular shaped pipe and exact size may vary from those indicated on plans. Unit price of Item 4.d. shall include cost to provide custom CIPP liner ± 5% from size shown on plans.</u></p>	

ITEM 5 – Cut Protruding Service Connection	
Measurement	Actual number of service connections located, cut and removed
Payment	Unit price per each
Schedule of Payment	Monthly based on progress
<p>Material and equipment, services, and construction associated with the locating and cutting/grinding of protruding service connections as specified in Section 33 31 15, including other incidental Work. Additional expenses related to alternative hours worked to perform Work during low flow; CCTV inspection; pipe cleaning; the storage, testing, and disposal of any material resulting from the cleaning and inspection process; environmental controls; and bypass pumping or redirecting of existing flows shall be considered incidental to the Work and shall not be measured separately for payment. Protruding service connections that need to be cut and ground prior to completing the CIPP shall be paid for under this Item.</p>	

A

B

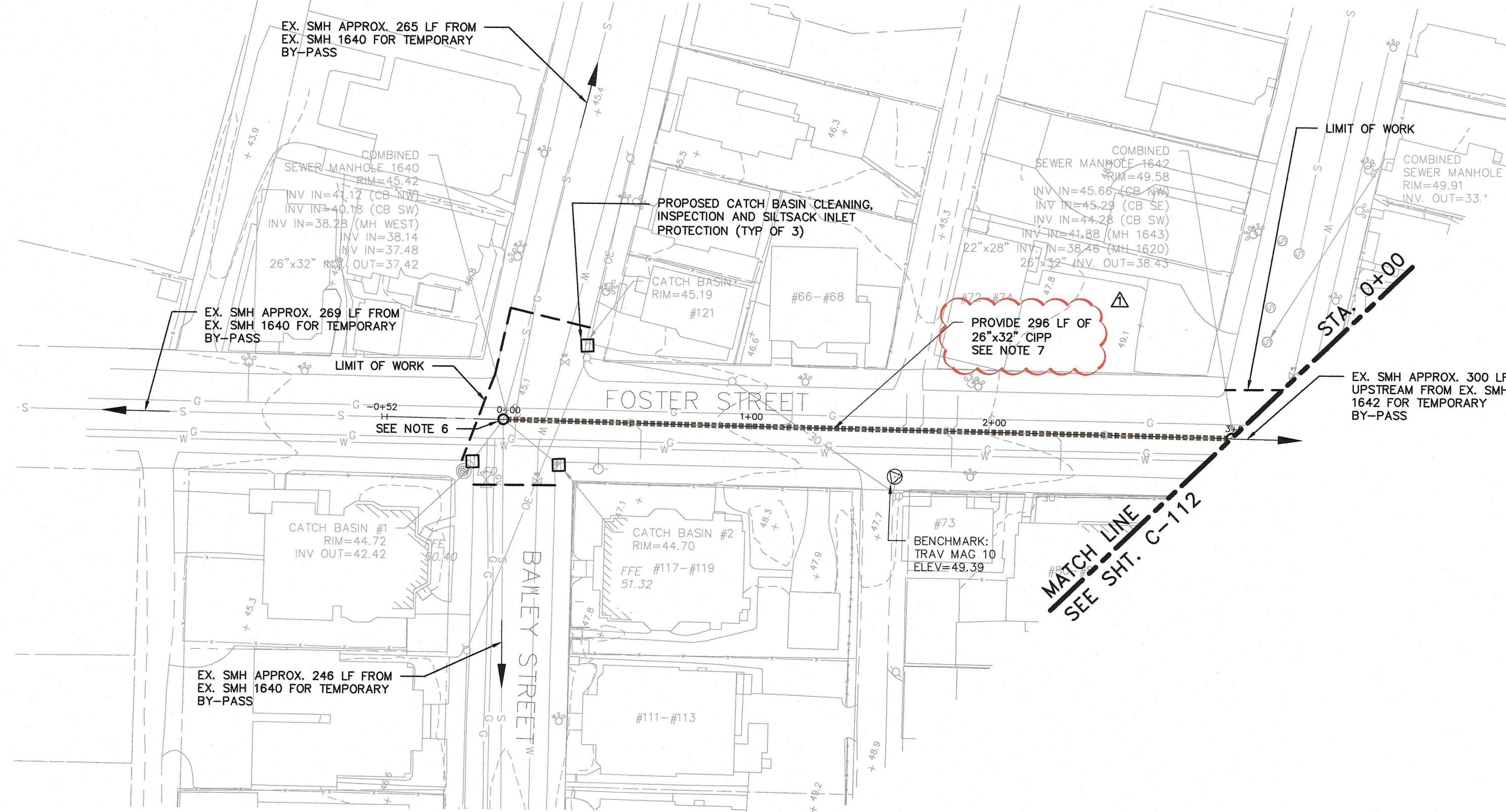
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D

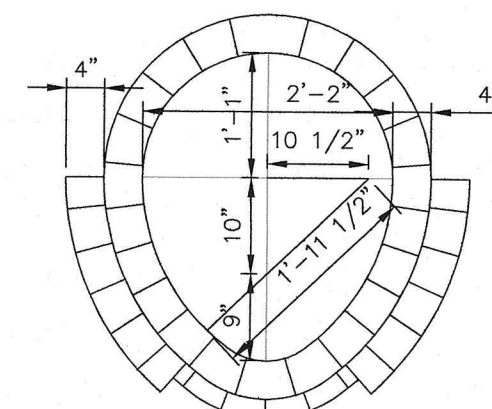
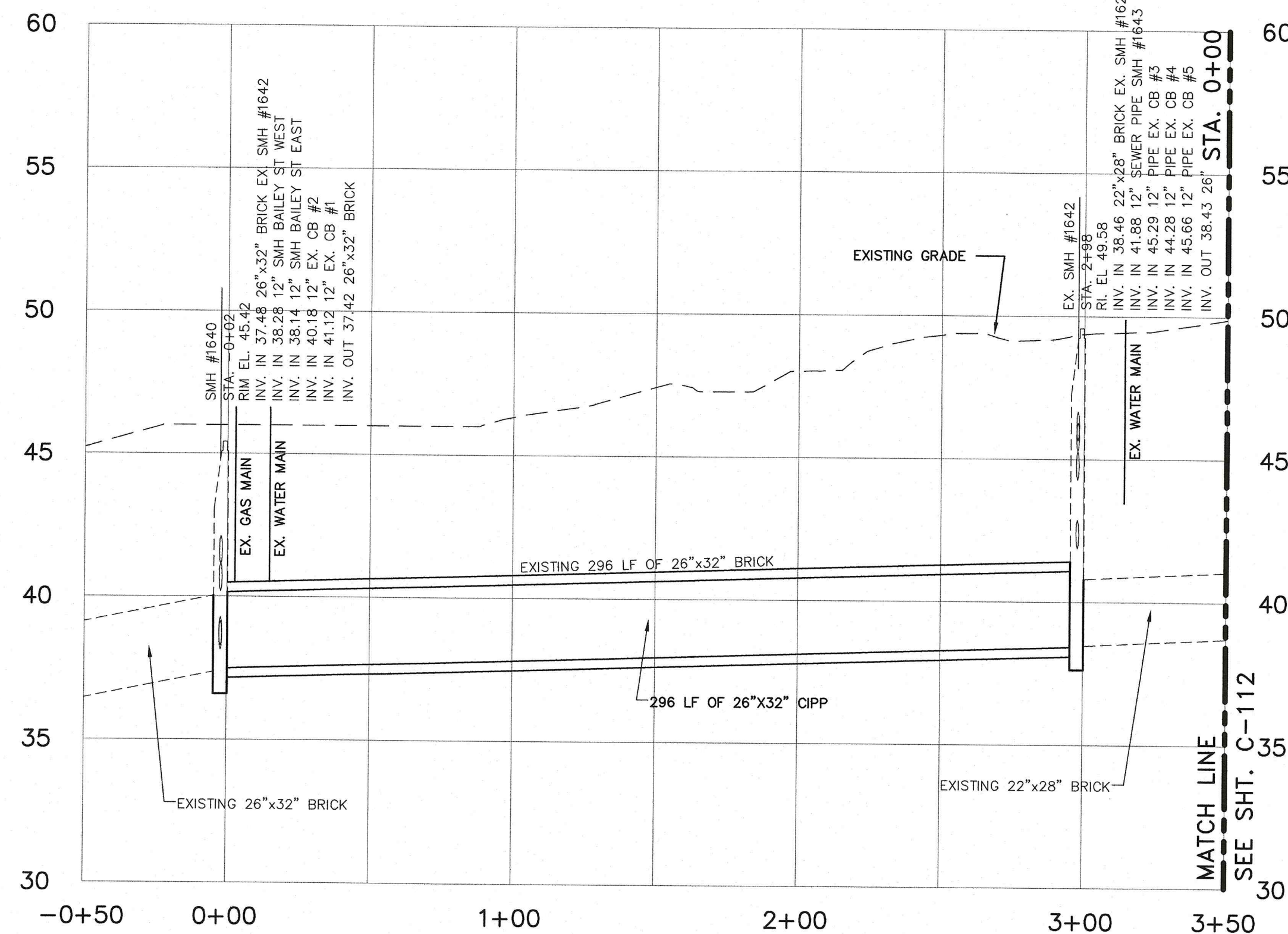
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NOTES:

- SEWER BYPASS MUST BE PROVIDED BY CONTRACTOR TO HANDLE ALL EXISTING FLOW DURING CONSTRUCTION.
- RECONNECT SEWER SERVICES PER DETAILS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO VERIFY INVERT ELEVATIONS AND SLOPES.
- SEWER SERVICES SHOWN AT APPROXIMATE LOCATIONS AND NEED TO BE FIELD VERIFIED PRIOR TO CONNECTING. SEWER SERVICES SHALL BE REPLACED WITHIN THE TRENCH LIMITS.
- CONTRACTOR SHALL PROVIDE SEWER PIPE AND ASSOCIATED CONNECTION MATERIALS PER SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- EXISTING MANHOLE TO BE VISUALLY INSPECTED IN THE FIELD BY THE ENGINEER TO DETERMINE IF REHABILITATION IS NEEDED. ALL WORK TO BE PAID FOR UNDER THE OWNER'S CONTINGENCY ALLOWANCE FOR MANHOLE REHABILITATION.
- ALL 26"x32" EGG SHAPED PIPE SERVICE CONNECTIONS ARE EXCLUDED FROM THE GROUTING WORK TO BE COMPLETED.



FROM MH	TO MH	STREET	ACCESS	PIPE SIZE (IN)	PIPE MATERIAL	PIPE SHAPE	APPROX. LINEAR FEET (LF)	APPROX. DEPTH (VF)	# OF SERVICES TO RECONNECT	LOCATION OF SERVICE TO RECONNECT FROM DOWNSTREAM MANHOLE
MH 1640	MH 1642	FOSTER STREET	ON-STREET	26"Wx32"H	BRICK	EGG	296	12	7	STA. 0+52, 1+14, 1+61, 1+68, 1+81, 1+86, 2+25



NOTES:

- FOSTER STREET IS AN IRREGULAR SHAPED PIPE. PIPE SIZE SHOWN IS BASED ON RECORD DRAWINGS PROVIDED. CONTRACTOR SHALL FIELD VERIFY PIPE SIZE PRIOR TO INSTALLATION.

EXISTING SEWER SECTION

N.T.S.

FOSTER STREET PLAN & PROFILE
STA. 0+00 TO STA. 3+50

CITY OF LAWRENCE
DEPARTMENT OF PUBLIC WORKS
LAWRENCE, MASSACHUSETTS

SEWER SYSTEM REHABILITATION AND
IMPROVEMENTS - CONTRACT II

JOB NO.: 228526.004
DATE: JUNE 2016
SCALE: 1" = 40'
SHEET: 17 OF 26

C-114

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