

SECTION 00920

ADDENDUM

City of Muskegon
1360 E. Keating Avenue
Muskegon, MI 49442

ADDENDUM NO. 2

DATE: June 18, 2019

ENGINEER: Eng., Inc.
16930 Robbins Road, Suite 105
Grand Haven, MI 49417

Drawing Revision No: N/A

Drawing Sheets Issued Herewith: N/A

Bids Due: July 1, 2019 Issued to all Plan Holders

This Addendum is part of the Contract Documents and modifies the previously issued Bidding Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may result in rejection of the Bid.

In accordance with Article 1 of the General Conditions, this Addendum is hereby issued as part of the Contract Documents.

1. The due date to submit sealed bids has been rescheduled as follows:

The City of Muskegon, Michigan will receive sealed bids until 2:00 p.m. local time on Monday, July 1, 2019, at the City Clerk's Office, City Hall, 933 Terrace Street, Muskegon, Michigan, at which time and place all bids will be publicly opened and read aloud.

2. The last day for issuing an addendum will be **Thursday, June 27, 2019.**
3. The last day to submit questions will be **Tuesday, June 25, 2019.**
4. The **City of Muskegon SRF/DWRF Projects Mandatory Pre-Bid Meeting Minutes for General Items** are attached to this addendum.
5. The **Spring Street Sewer Reroute and Bourdon Street Alley Sewer Mandatory Pre-Bid Meeting Notes** are attached to this addendum.
6. A Revised Bid Section 00314 is attached to this addendum adding the following Pay Items to the Bid:

122 Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot 4 FT
123 Sanitary Manhole, 72 inch Dia 2 EA

7. The measurement and payment for **Sanitary Manhole, ___ inch Dia** is as follows:

Sanitary Manhole, ___ inch Dia will be measure and paid by **EACH, REGARDLESS OF DEPTH.**

8. On drawing sheet 11 of 18, SAN MH X1 at Sta 5+60 (34' R) will be relocated to the centerline of Pine Street at Sta 5+60. The existing sanitary sewer manhole at Sta 5+60 (34' R) is to remain and **NOT** be removed. The note for the relocated proposed SAN MH X1 will be as follows:

SAN MH X1 (48" DIA)
RIM ELEV = 600.86
8" INV (NW) = 586.90
12" INV (SW) = 587.00
12 LF 8" SANITARY SEWER @ 0.83%

Also, SAN MH X, 8" INV (SW) will become **8" INV (SE)**

9. Add the following paragraph after the last paragraph in the **City of Muskegon Special Provision For Dewatering System**:

"This pay item also includes up to 4 ground water samples and tests to determine the existence of Mercury. The location of the sample will be determined by the Engineer, and the costs of the tests shall be considered included with the Pay Item."

10. The second paragraph of Section "d" on page 2 of 2 in the City of Muskegon Special Provision for Dewatering System will change from:

Ground water samples on Spring Street west of Webster Avenue indicate high levels of mercury. All ground water containing mercury must be collected, hauled, and disposed of in accordance with NPDES and Michigan DEQ standards.

to now read:

Ground water samples on Spring Street **from Sta. 6+50 to Sta. 10+60** indicate high levels of mercury. All ground water containing mercury must be collected, hauled, and disposed of in accordance with NPDES and Michigan DEQ standards.

END OF SECTION

SECTION 00314

BID
SPRING STREET SEWER REROUTE AND BOURDON STREET ALLEY SEWER

Bid of _____ hereinafter called Bidder, organized and existing under the laws of or a resident of the State of _____, doing business as _____.*

*Insert as applicable: "a corporation", "a partnership" or "an individual".

To City of Muskegon, hereinafter called OWNER.

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work for the Spring Street Sewer Reroute and Bourdon Street Alley Sewer as specified or indicated in the Contract Documents for the Contract Price and within the Contract Times indicated in the Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Advertisement of Bids and Instructions to Bidders including, without limitation, those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the day of bid opening. Bidder will sign and submit the Agreement and the Bonds and other documents required by the Bidding Documents within 15 days after the date of OWNER's Notice of Award.
3. In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:

- A. Bidder has examined and carefully studied the Bidding Documents and the following Addenda receipt of all which is hereby acknowledged:

<u>Date</u>	<u>Addendum Number</u>
____ June 12, 2019 ____	_____ 1 _____
____ June 18, 2019 ____	_____ 2 _____

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local laws and regulations that may affect cost, progress, performance and furnishing of the Work.
- D. Bidder has carefully studied all reports of explorations and test of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) if identified in Section 00800: Supplementary Conditions as provided in paragraph 4.02 of Section 00700: General Conditions. Bidder accepts the determination set forth in paragraph SC-4.02 of Section 00800: Supplementary Conditions of the extent of the "technical data" contained in such reports and drawings upon which Bidder is entitled to rely as provided in paragraph 4.02.1 of Section 00700: General Conditions. Bidder acknowledges that such reports and drawings are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that OWNER and ENGINEER do not assume responsibility for the accuracy or completeness of information and data shown or indicated in Bidding Documents with respect to Underground Facilities at or contiguous to the Site.
- E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site or otherwise which may affect cost, progress, performance or furnishing of the Work or which relates to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of the Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Contract Documents.
- F. Bidder is aware of the general nature of Work to be performed by OWNER and others at the Site that relates to Work for which this Bid is submitted as indicated on the Contract Documents.
- G. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings if any are identified in the Contract Documents and all additional or supplementary examinations, investigations, explorations, tests, studies and data with the Contract Documents.
- H. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to Bidder, and

the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

- I. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other bidder or over OWNER.

4. Bidder will complete the Work for the following unit prices:

Unit Price Schedule
Spring Street Sewer Reroute and Bourdon Street Alley Sewer

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Amount
1	Audio Visual Filming	LSUM	1	\$	\$
2	Mobilization, Max	LSUM	1	\$	\$
3	Dr Structure, Rem	Ea	42	\$	\$
4	Sewer, Rem, Less than 24 inch	Ft	1268	\$	\$
5	Sewer, Rem, 24 inch to 48 inch	Ft	591	\$	\$
6	Sewer, Rem, Over 48 inch	Ft	423	\$	\$
7	Abandon Existing 12 inch Sewer	Ft	155	\$	\$
8	Abandon Existing 24 inch Sewer	Ft	1226	\$	\$
9	Curb and Gutter, Rem	Ft	3139	\$	\$
10	Sidewalk, Rem	Syd	348	\$	\$
11	Pavt, Rem, Modified	Syd	11805	\$	\$
12	Non Haz Contaminated Material Handling and Disposal, LM	Cyd	2963	\$	\$
13	Machine Grading, Modified	Sta	32	\$	\$
14	Helical Pile	Ea	20	\$	\$
15	Helical Pile, Load Test	Ea	20	\$	\$
16	Dewatering System	LSUM	1	\$	\$
17	Helical Pile Equipment, Furn	LSUM	1	\$	\$
18	Surcharge Roadway	LSUM	1	\$	\$
19	Erosion Control, Check Dam, Stone	Ft	3	\$	\$
20	Erosion Control, Inlet Protection, Fabric Drop	Ea	34	\$	\$
21	Erosion Control, Silt Fence	Ft	1000	\$	\$

22	Subbase, CIP	Cyd	3595	\$	\$
23	Aggregate Base, 5 inch	Syd	1361	\$	\$
24	Aggregate Base, 10 inch	Syd	10533	\$	\$
25	Backfill, Lightweight, Iron Blast Furnace Slag Aggregate, LM	Cyd	1360	\$	\$
26	Aggregate Surface Cse, 6 inch	Syd	73	\$	\$
27	Aggregate Surface Cse, 8 inch	Syd	400	\$	\$
28	Maintenance Gravel, LM	Cyd	100	\$	\$
29	Shoulder, CI, 1, 6 inch	Syd	90	\$	\$
30	Culv End Sect, 12 inch	Ea	2	\$	\$
31	Sewer Tap, 8 inch	Ea	1	\$	\$
32	Sewer Tap, 10 inch	Ea	1	\$	\$
33	Sewer Tap, 30 inch	Ea	1	\$	\$
34	Video Taping Sewer and Culv Pipe	Ft	5009	\$	\$
35	Sanitary Sewer, PVC, 12 inch	Ft	15	\$	\$
36	Sanitary Sewer, PVC, 18 inch	Ft	389	\$	\$
37	Sanitary Sewer, PVC, 24 inch	Ft	40	\$	\$
38	Sanitary Sewer, PVC, 27 inch	Ft	1048	\$	\$
39	Sanitary Sewer, PVC, 30 inch	Ft	668	\$	\$
40	Sanitary Sewer, PVC, 30 inch, Bore and Jack	Ft	190	\$	\$
41	Sanitary Sewer, PVC, 6 inch	Ft	100	\$	\$
42	Sanitary Sewer, PVC, 8 inch	Ft	1475	\$	\$
43	Sewer, CI A, 12 inch, Tr Det B	Ft	1059	\$	\$
44	Sewer, CI A, 24 inch, Tr Det B	Ft	105	\$	\$
45	Sewer, CI A, 48 inch, Tr Det B	Ft	20	\$	\$
46	Sanitary Manhole, Drop Connection	Ea	2	\$	\$
47	Sewer Bulkhead	Ea	1	\$	\$
48	Dr Structure Cover, Adj, Case 1	Ea	5	\$	\$
49	Dr Structure, 48 inch dia	Ea	26	\$	\$
50	Dr Structure, 60 inch dia	Ea	5	\$	\$

51	Dr Structure, Tap, 8 inch	Ea	1	\$	\$
52	Dr Structure, Tap, 12 inch	Ea	1	\$	\$
53	Dr Structure, Temp Lowering	Ea	5	\$	\$
54	Dr Structure Cover, ADA Compliant	Ea	3	\$	\$
55	Dr Structure Cover, Modified	Ea	57	\$	\$
56	Sanitary Manhole, 48 inch Dia	Ea	25	\$	\$
57	Sanitary Manhole, 60 inch Dia	Ea	3	\$	\$
58	Sanitary Manhole, Meter Station, 84 inch Dia	Ea	1	\$	\$
59	HMA Approach	Ton	321	\$	\$
60	Textured Asphalt Crosswalk	Sft	1220	\$	\$
61	HMA, 13A	Ton	2074	\$	\$
62	Driveway, Nonreinf Conc, 6 inch	Syd	318	\$	\$
63	Curb and Gutter, Conc, Det F4	Ft	3643	\$	\$
64	Driveway Opening, Conc, Det M	Ft	242	\$	\$
65	Detectable Warning Surface	Ft	185	\$	\$
66	Curb Ramp Opening, Conc	Ft	279	\$	\$
67	Sidewalk Ramp, Conc, 6 inch	Sft	1382	\$	\$
68	Sidewalk, Conc, 4 inch	Sft	2454	\$	\$
69	Sign, Type III, Erect, Salv	Ea	2	\$	\$
70	Sign, Type III, Rem	Ea	2	\$	\$
71	Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk	Ft	1146	\$	\$
72	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	Ft	176	\$	\$
73	Pavt Mrkg, Waterborne, 4 inch, White	Ft	50	\$	\$
74	Pavt Mrkg, Waterborne, 4 inch, Yellow	Ft	2740	\$	\$
75	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	Ft	50	\$	\$
76	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	Ft	2740	\$	\$
77	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	38	\$	\$
78	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	38	\$	\$
79	Lighted Arrow, Type C, Furn	Ea	2	\$	\$

80	Lighted Arrow, Type C, Oper	Ea	2	\$	\$
81	Minor Traf Devices	LSUM	1	\$	\$
82	Plastic Drum, High Intensity, Furn	Ea	80	\$	\$
83	Plastic Drum, High Intensity, Oper	Ea	80	\$	\$
84	Sign, Portable, Changeable Message, Furn	Ea	2	\$	\$
85	Sign, Portable, Changeable Message, Oper	Ea	2	\$	\$
86	Sign, Type B, Temp, Prismatic, Furn	Sft	588	\$	\$
87	Sign, Type B, Temp, Prismatic, Oper	Sft	588	\$	\$
88	Pollinator Tree, Coral Burst Crabapple, 6 foot	Ea	16	\$	\$
89	Pollinator Tree, Kwanzan Cherry, 6 foot	Ea	16	\$	\$
90	Turf Establishment, Performance	Syd	3932	\$	\$
91	Abandon Existing 16 inch Water Main	Ft	1165	\$	\$
92	Water Main, DI, 12 inch, Tr Det G	Ft	30	\$	\$
93	Water Main, DI, 16 inch, Tr Det G	Ft	848	\$	\$
94	Water Main, DI, 6 inch, Tr Det G	Ft	50	\$	\$
95	Water Main, DI, 8 inch, Tr Det G	Ft	265	\$	\$
96	Water Main, Fusible PVC, 16 inch, Tr Det G	Ft	315	\$	\$
97	Fire Hydrant	Ea	1	\$	\$
98	Fire Hydrant, Rem	Ea	1	\$	\$
99	Gate Valve and Box, 12 inch, Modified	Ea	1	\$	\$
100	Gate Valve and Box, 6 inch, Modified	Ea	1	\$	\$
101	Gate Valve and Box, 8 inch, Modified	Ea	2	\$	\$
102	Gave Valve and Box, 16 inch, Modified	Ea	7	\$	\$
103	Water Main Fitting, 12 inch, 45 Deg Bend	Ea	3	\$	\$
104	Water Main Fitting, 12 inch, Cap Off	Ea	2	\$	\$
105	Water Main Fitting, 12 inch, Sleeve	Ea	2	\$	\$
106	Water Main Fitting, 16 inch x 12 inch, Reducer	Ea	1	\$	\$
107	Water Main Fitting, 16 inch x 12 inch, Tee	Ea	1	\$	\$
108	Water Main Fitting, 16 inch x 16 inch, Tee	Ea	2	\$	\$

109	Water Main Fitting, 16 inch x 6 inch, Tee	Ea	1	\$	\$
110	Water Main Fitting, 16 inch x 8 inch, Reducer	Ea	1	\$	\$
111	Water Main Fitting, 16 inch x 8 inch, Tee	Ea	2	\$	\$
112	Water Main Fitting, 16 inch, 45 Deg Bend	Ea	12	\$	\$
113	Water Main Fitting, 16 inch, Cap Off	Ea	4	\$	\$
114	Water Main Fitting, 16 inch, Sleeve	Ea	3	\$	\$
115	Water Main Fitting, 6 inch, 45 Deg Bend	Ea	2	\$	\$
116	Water Main Fitting, 6 inch, Cap Off	Ea	2	\$	\$
117	Water Main Fitting, 6 inch, Sleeve	Ea	1	\$	\$
118	Water Main Fitting, 8 inch x 6 inch, Reducer	Ea	1	\$	\$
119	Water Main Fitting, 8 inch, 45 Deg Bend	Ea	2	\$	\$
120	Water Main Fitting, 8 inch, Sleeve	Ea	1	\$	\$
121	Water Main, Connect to Existing	Ea	9	\$	\$
122	Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	Ft	4	\$	\$
123	Sanitary Manhole, 72 inch dia	Ea	2	\$	\$

Total Amount (numbers) \$ _____

Total Amount (words) _____ dollars.

5. Bidder agrees that the Work will be substantially complete on or before October 11, 2020, and completed and ready for final payment in accordance with Paragraph 14.07 of Section 00700: General Conditions on or before October 31, 2020. Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.
6. The following documents are attached to and made a condition of this bid:
 - A. Required bid security.
 - B. Required Certification Regarding Debarment, Suspension, and Other Responsibility Matters form.
 - C. Required DBE Utilization Good Faith Efforts worksheet.
7. Communications to Bidder concerning this Bid shall be addressed to the address indicated below.
8. The terms used in this Bid which are defined in the General Conditions of the construction Contract, included as part of the Contract Documents, have the meanings assigned to them in Section 00700: General Conditions.

SUBMITTED on _____, 20 ____
Date*

BY: _____
Name of Bidder*

Street*

Signature

City, State, and Zip*

Name and Title of Signatory*

Telephone Number*
*Typed or printed in ink.

END OF SECTION

**City of Muskegon
SRF/DWRF Projects
Mandatory Pre-Bid Meeting
Meeting Minutes for General Items**

Date: June 13, 2019, 9:00 A.M.

Meeting Location: City of Muskegon DPW Building
Project Name: City of Muskegon SRF/DWRF Projects
SRF No.: 5675-01
DWRF No.: 7449-01

GENERAL ITEMS:

1. Introductions – Leo Evans, Public Works Director, City of Muskegon

Package #001 Spring Street Sewer Reroute and Bourdon Street Alley Sewer
City of Muskegon Project No. 91850 & 91851
Engineer – ENG. Representative: Erik Morris, P.E.

Package #002 9th Street Area Sanitary Sewer Improvements & Getty Street Force Main Replacement
City of Muskegon Project No. 91852 & 91853
Engineer – Fleis & VandenBrink, Inc. Representative: Don DeVries, P.E.

Package #003 Beidler Sanitary Sewer Replacement
City of Muskegon Project No. 91854
Engineer – Prein&Newhof Representative: Matt Hulst, P.E., Barbara Marczak, P.E.

Package #004 Westwood Sanitary Sewer Replacement
City of Muskegon Project No. 91855
Engineer – Prein&Newhof Representative: Matt Hulst, P.E., Barbara Marczak, P.E.

Package #005 Jefferson/Strong Sanitary Sewer Replacement
City of Muskegon Project No. 91856
Engineer – Prein&Newhof Representative: Matt Hulst, P.E., Barbara Marczak, P.E.

2. Mandatory Pre-bid meeting – all attendees must sign sign-in sheet. If anyone came on Monday for original meeting and signed in, they will be considered to have attended. Sign-in sheet is attached.
3. SRF/DWRF Program Requirements (Matt Hulst – Prein&Newhof)
 - a. Project Financing – All projects are financed through the State of Michigan State Revolving Fund administered through the Department of Environment, Great Lakes, and Energy (EGLE). All projects except package #002 are also financed through the Drinking Water Revolving Fund administered through EGLE. Project numbers are shown on the plan.
 - b. DBE Good Faith Efforts – Bidders must meet the requirements of the DBE Good Faith Efforts outlined in the specifications. Good Faith Efforts Worksheet must be included in each bid package with necessary documentation. There is not a specific percentage requirement for participation.

- c. American Iron and Steel – American Iron and Steel per H.R. 3547 is required under this project. See Contract language in each Contract.
- d. Wages – Davis Bacon/Prevailing Federal Wage Rates are required. Updated wage rates will be added by Addendum 10 days prior to bid if necessary.
- e. Schedule –
 - i. Bids received 6/27/2019. This will be the earliest date. The City is looking at alternate bid dates for some contracts. This will be revised via addendum.
 - ii. Tentative Contract Award by City of Muskegon 7/9/2019
 - iii. EGLE Order of Approval 8/9/2019
 - iv. Award within 60 days of Order of Approval contingent upon successful sale of bonds.
 - v. Completion Dates – Project Specific

4. Questions on General Items.

Q; Is the City of Muskegon's local contractor preference policy applicable to this project?

A: The city's local preference policy is not in place for these projects.

Q: Will wage rates be updated prior to bid?

A: Wage rates will be updated via addendum ten days prior to the bid opening date.

Q: What is the last day for questions?

A: This will be reviewed after the meeting and clarified via addendum.

Pre-bid Meeting Sign In sheet

Owner: City of Muskegon

Project Title: SRF/DWRF Projects

SRF No.: 5675-01

SRF No.: 7449-01

Date: June 13, 2019 @ 9 A.M.

Location: City DPW Building

<i>Attendee</i>	<i>Company</i>	<i>Phone Number (w/area code)</i>	<i>E-mail Address</i>
Mark Robinson	Diversco Construction	616-453-6379	mark@diverscoconst.com
Dirk Hoekstra	Nagel Construction	616-293-0964	hoekstradir@hotmaill.com
Karl Klynstra	Kamminga&Roodvoets	616-949-0800	klynska@kandrinc.com
Tim Bergstrom	Kamminga&Roodvoets	616-949-0800	bergsti@kandrinc.com
David VanderMolen	McCormickSand	231-766-0466	david@mccormicksand.com
Gary Merkey	Jackson-Merkey	231-728-9344	gmerkey@jackson-merkey.com
Scott Drier	Terra Contractors	231-206-5654	scott@teamterra.com
Mike Hannan	City	231-578-6495	Mike.hannan@shorelinecity.com
Bob Williams	Xylem	815-378-3209	bobwilliams@xyleminc.com
Erik Morris	Eng., Inc.	517-887-1100	morrise@engdot.com
Dave Baker	City of Muskegon	231-724-4184	dave.baker@shorelinecity.com
Leo Evans	City of Muskegon	231-724-4184	Leo.evans@shorelinecity.com
Matt Hulst	Prein&Newhof	231-798-01-01	mhulst@preinnewhof.com
Barbara Marczak	Prein&Newhof	231-798-0101	bmarczak@preinnewhof.com
Marc Walker	Milbocker & Sons	269-673-2195	mwalker@milbocker.com
Amber Burden	Hallack Contracting	231-578-1880	amber@hallackcontracting.com
Dan Meredith	Efficiency Production	517-243-4564	d.meredith@arcosa.com

Pre-bid Meeting Sign In sheet

Owner: City of Muskegon

Project Title: SRF/DWRF Projects

SRF No.: 5675-01

SRF No.: 7449-01

Date: June 13, 2019 @ 9 A.M.

Location: City DPW Building

<i>Attendee</i>	<i>Company</i>	<i>Phone Number (w/area code)</i>	<i>E-mail Address</i>
Jim Hamilton	Efficiency Production	517-230-9636	Jim.hamilton@arcosa.com
Max Boose	CL Trucking & Excavating	616-527-9352	mboose@clte.net

MEETING NOTES – MANDATORY PREBID MEETING

City of Muskegon
SRF Project No. 5675-01
DWRP Project No. 7449-01
(Package # 001 - Spring Street Sewer Reroute and Bourdon Street Alley Sewer)

Thursday June 13, 2019, 9:00 a.m.
City of Muskegon DPW Building

Notes by: Erik J. Morris, Eng., Inc.

Prebid Meeting Discussion Items ***Erik Morris, Eng., Inc. reviewed the following information regarding the project.***

1. Review of project
 - a. Rerouting of the existing Spring Street trunk line sewer. Existing sanitary sewer consists of 2'x4' box sewer that is protruding out of the ground at Webster Avenue. New route will be extended down Yuba Street and across / under Shoreline Drive to the existing County pump station. Meter upgrade at pump station. Replacing 16" water main in Spring Street as it crisscrosses the sanitary sewer. A portion of Spring Street from Clay Avenue to Webster Avenue is built on 40 feet of organic / saw dust / wood and is sinking. Because of this, surcharging, lightweight fill and helical piles are proposed.
2. Sheet by sheet review
 - a. Sheet 2 – Cross sections
 - b. Sheet 3 – Cross sections
 - c. Sheet 4 – Yuba Street removals
 - d. Sheet 5 – Spring Street removals
 - e. Sheet 6 – Outlet
 - i. Replacing and upgrading meter pit to accommodate new flow rate
 - ii. Bore and jack 30" PVC sanitary with 42" steel casing pipe under both NB and SB Shoreline Drive and within MDOT right of way. Open cut can be utilized in green space location.
 - iii. Grade is extremely tight. Minimum grade coming out of meter station to get under existing 30" storm sewer in NB Shoreline Drive, then comes up to get over existing 72" RCP culvert at Ryerson Creek, and then minimum grade to maintain adequate cover in low spot on Yuba Street.
 - iv. Close proximity to Ryerson Creek so SESC measures must be constantly maintained.
 - f. Sheet 7 – Yuba Street
 - i. Connection into Murphy Street sewer as well as Cedar Street sewer
 - ii. Removal and replacement of the entire HMA cross section
 - iii. Extending curb and gutter from Cedar Street to Murphy Street
 - iv. Storm sewer replacement and additions
 - v. Existing 16" water main goes through storm sewer manhole at Cedar Street. Reroute water main and remove from the existing manhole
 - vi. 24 LF of 48 inch storm sewer can be salvaged if successfully tunneled under
 - vii. ADA ramp upgrades

- g. Sheet 8 – Yuba Street
 - i. 27" sanitary sewer continues up the hill to connect into Spring Street trunk line sewer.
 - ii. Curb and Gutter to remain in place and protected.
 - iii. Removal and replacement of entire HMA cross section.
- h. Sheet 9 – Spring Street
 - i. Installation of 18" PVC sanitary sewer from Western Avenue to connect in Clay Avenue.
 - ii. 8" sanitary sewer from Clay Avenue to connection at Webster
 - iii. 8" continue up Spring Street to cross lot sewer.
 - iv. New 16" water main from Western Avenue to Yuba Street tying into all side streets. There are records of an existing lead service to vacant lot at NE corner of Spring and Clay. If encountered, this will be removed and not replaced. No other services expected.
 - v. Total reconstruct of roadway with new curb and gutter. Roadway width is being reduced.
 - vi. Existing roadway is experiencing settlement between Clay Avenue and Webster Avenue. Proposed water main and sanitary sewer will be located outside of the roadway. Fusible PVC water main in this location. Surcharge in this location. Lightweight fill in this location.
 - vii. An area of known Non Hazardous Contaminated Soils and non-hazardous levels of Mercury in the groundwater. In this area all soils and water from dewatering activities must be captured and disposed of properly off-site.
 - viii. Dewatering should be anticipated in this location due to the shallow ground water level.
 - ix. Storm sewer replacement.
 - x. ADA ramp upgrades.
- i. Sheet 10 – Spring Street
 - i. Continuation of 8" sanitary sewer to tie into existing cross lot sewer.
 - ii. Continuation of 16" water main replacement. No services expected.
 - iii. Full road reconstruction.
 - iv. Storm sewer replacement.
 - v. ADA ramp upgrades.
- j. Sheet 11 – Western Avenue
 - i. The existing sanitary sewer is located under the Witt Buick building. We are proposing to reroute the sanitary sewer down Pine Street and Western Avenue.
 - ii. Protect curb and gutter.
 - iii. Full reconstruct of HMA cross section.
 - iv. ADA ramp upgrades.
- k. Sheet 12 – Intersection Details
- l. Sheet 13 – Intersection Details
- m. Sheet 14 – Pavement Marking Plan and Pollinator Tree Plan
 - i. Textured asphalt crosswalks on Spring Street
 - ii. Pollinator trees
- n. Sheet 15 – Maintaining Traffic
 - i. Set up as if Yuba and Spring are both closed at the same time.
 - ii. Some phasing may be required depending on contractor's schedule. Contractor will be required to submit a phasing plan. Webster and Muskegon avenues should remain open to traffic when work operations do not affect those areas.
- o. Sheet 16 – Notes and Details
- p. Sheet 17 – Water Main Details

- q. Sheet 18 – Addison-Bourdon Alley Sewer
 - i. Remove and replace failing 8" sewer.
 - ii. 6" sanitary service leads
 - iii. 2 manholes
 - iv. Remove and replace HMA cross section in Fair Avenue.
 - v. Replace alley with 8" aggregate surface course.
3. Special Provisions
- a. Backfill, Lightweight, Slag Aggregate
 - i. MDOT SP, intended for Spring Street from Clay Avenue to Webster Avenue.
 - b. Dewatering System
 - i. Soil borings and Trace ground water test results are in the project manual. Mercury was detected between Clay and Webster. All ground water containing mercury must be collected, hauled and disposed of off-site in accordance with NPDES and Michigan EGLE standards. NO mercury can be allowed into the sanitary system or Waters of the State.
 - c. Helical Piles
 - i. These are intended for the manholes in the intersections of Spring and Clay as well as Spring and Webster.
 - d. Non-Hazardous Contaminated Material Handling and Disposal
 - i. Anticipated on Spring Street between Clay Avenue and Webster Avenue
 - e. Sanitary Manhole, Meter Station, 84 inch
 - i. Includes everything in detail to replace and upgrade meter of existing system.
 - f. Sanitary Sewer, Fusible PVC, 30 inch, Bore and Jack
 - i. Underneath Shoreline Drive (MDOT)
 - ii. Includes 42 inch steel casing pipe
 - g. Surcharge Roadway
 - i. Surcharge proposed on Spring Street shall include the Clay Avenue intersection and extend to the North spring point of Webster Avenue.
 - ii. Webster Avenue to remain open to traffic.
 - iii. Limits are shown on the removal plan.
 - iv. 4 feet of fill for a minimum of 8 weeks
 - v. Maintain access road at Clay Avenue across Spring Street.
 - h. Textured Asphalt Crosswalk
 - i. Spring Street crosswalks

4. Questions?

Q. Does the 8 weeks of surcharge need to fall within the 18 week construction limits?

A. No, the 8 weeks of surcharge does not have to be inside of the 18 week limit of construction. The surcharge may happen at any time. The 18 weeks includes all other construction activities.

Q. Can you clarify the material used for the surcharge?

A. Granular Material Class II

Q. Can you clarify the areas of existing ground water containing Mercury? And is it possible to set up an allowance for treatment of Mercury?

A. The contractor shall assume that all ground water on Spring Street from Sta 6+50 to Sta 10+60 will need to be collected, treated, hauled and disposed of properly as part of the Dewatering System pay item.

Also, add the following below the last paragraph in the Special Provision for Dewatering System:

“This pay item also includes up to 4 ground water samples and tests to determine the existence of Mercury. The location of the sample will be determined by the Engineer, and costs of the tests shall be considered included with the Pay Item.”

Q. Can you clarify the 8” and 4” connections to proposed sanitary manhole I at Yuba Street and Murphy Street?

A. These are existing connections to the existing sanitary manhole. These will be connected to the new proposed sanitary manhole I on sheet 6 unless it is determined by the City that they are not active and abandoned. For bidding purposes, assume they will be connected.

Q. Will the additional borings adjacent Shoreline Drive requested by MDOT be available to the contractor?

A. Yes, when they are available they will be added via addendum or provided to the selected contractor.

Q. Proposed sanitary manhole X1 is 14 feet deep and is located 3 feet off a building corner; can you clarify how this manhole shall be built?

A. Sanitary manhole X1 shall be moved to the centerline of Pine Street. The manhole will intercept the existing 12” cross lot sanitary sewer and then a new connection will be made to proposed sanitary manhole X. Inverts and rim grades can be assumed to be the same.