

MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
DECEMBER 14, 2020
10:45 A.M.
AGENDA

NOTE: THIS MEETING WILL BE HELD BY TELECONFERENCE

Call in Number: 1-651-571-1250
Access Code: 202 576 906

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for December 14, 2020	
3. Approval of Minutes for November 9, 2020	4
4. Public Participation	
5. Project Updates – Stephen Downing/Vince Astorino	
6. 2020 Interceptor Inspection Program – Contractor Recommendation – Vince Astorino	7
Motion: To award the bid from Doetsch Environmental Services in the amount of \$421,254.75 to perform the work associated with the 2020 Interceptor Inspection Program (MIDD costs of \$280,034).	
7. Applied Science, Inc. Dye-Dilution Testing Services Contract Change Order #1 – Vincent Astorino	25
Motion: To approve Change Order No. 1 for \$100,000 to the Dye-Dilution Testing contract with Applied Science, Inc.	
8. Lawn Maintenance Contract Renewal – Stephen Downing	27
Motion: To approve a contract amendment to extend the Marino's Landscaping contract for the 2021, 2022, and 2023 seasons based on 2020 rates for a total cost of \$25,701 (\$8,567 annually).	

9. Romeo Arm Segment 5 Chemical Grouting – Doetsch Change Order No. 2 30
- Stephen Downing

Motion: To approve Change Order No. 2 for the final costs of \$68,542.05 incurred by Doetsch Environmental Services to complete the Segment 5 Chemical Grouting.

10. Romeo Arm Segment 5 Chemical Grouting – FKE Change Order No. 3 34
- Stephen Downing

Motion: To approve Change Order No. 3 for \$54,649.79 for the costs incurred by FK Engineering to complete the Segment 5 Chemical Grouting efforts.

11. Romeo Arm Segment 5 Rehabilitation CS-12 Electrical Design – FKE Change Order No. 3 – Stephen Downing 36

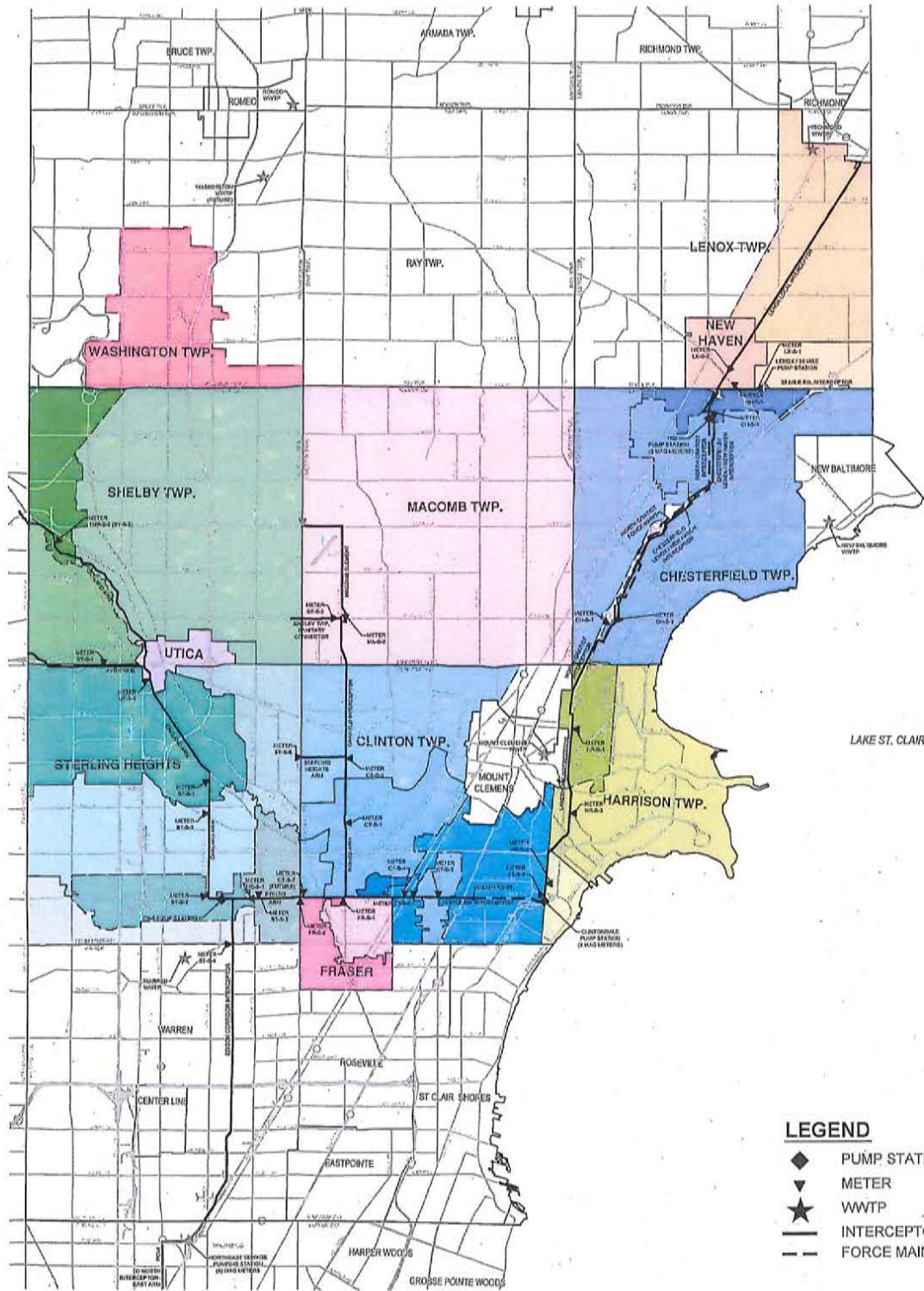
Motion: To approve Change Order No. 3 for \$70,140 for FK Engineering to provide Electrical Design Services for the CS-12 Access Shaft and Dewatering Pump Station (Segment 5).

12. Consideration for approval of invoices (see attached) 56

13. Financial Report – Bruce Manning 58

14. Adjourn

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



LEGEND

- ◆ PUMP STATION
- ▼ METER
- ★ WWTP
- INTERCEPTOR
- - - FORCE MAIN



Candice S. Miller

MACOMB COUNTY PUBLIC WORKS COMMISSIONER

fitch

UPDATED: FEBRUARY 2017

An adjourned meeting of the Intra-County Drainage Board for the **MACOMB INTERCEPTOR DRAIN** was held via telephone conference per the State Public Act 228 of 2020 due to the COVID-19 pandemic, on November 9, 2020, at 11:14 A.M.

PRESENT: Candice S. Miller, Chair
Bryan Santo, Member
Robert Mijac, Member

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Jeff Bednar P.E., Environmental Resources Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Macomb County Public Works

The meeting was called to order by the Chair, Candice S. Miller. A motion was made by Mr. Santo, supported by Mr. Mijac to approve the agenda as presented.

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of October 19, 2020 were presented. A motion was made by Mr. Mijac, supported by Mr. Santo to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

Mr. Downing updated the board that the Segment 5 rehab work has begun. The dewatering contractor is also onsite, have the wells drilled and are currently going through the dewatering well development phase. The project is on schedule.

The drop shaft rehab project is progressing well. Inland is working aggressively to get the connecting sewer spray lined and installing the energy dissipation unit. That should be wrapped up soon and will move on to restoration in the area. Four the six sites are close to complete.

Mr. Astorino updated the board that next month we will be bringing the inspection program bids to the board.

A motion was made by Mr. Mijac, supported by Mr. Santo to receive and file the project updates by Mr. Downing and Mr. Astorino.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that back in 2017 we went out to competitive bid for as needed engineering services and chose six different firms. In 2018/19 we awarded another contract to Wade Trim and have been happy with their services and would like to continue their contract for an additional \$75,000.

A motion was made by Mr. Santo, supported by Mr. Mijac to approve Change Order No. 2 for \$75,000 to the As Needed Engineering Contract with Wade Trim.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that METCO was one of the original contractors from 2017 and handle the flow control from the OMID sites. With the increase in flow control needs, we would like to re-up METCO's flow control support.

A motion was made by Mr. Santo, supported by Mr. Mijac to approve Change Order No. 2 for \$125,000 to the As-Needed Contract with METCO.

Adopted: YEAS: 3
NAYS: 0

Mr. Downing updated the board that we have an open odor and corrosion study contract with Jacobs from 2018 that is coordinated with OMID regarding a system wide odor and corrosion study. They were done concurrently and the project was extended on both sides as we have added more items for them to review. We want an in-depth analysis regarding how both systems interact with each other, and Jacobs is in the final reporting phase of that analysis. We also have had an ongoing odor complaint in Sterling Heights near STS-3. Jacobs was brought in the conversations with the City and homeowners to listen from a technical standpoint and put together a proposal to show how the local and private system interface together. The next step is to conduct a fan test at this meter facility to monitor what is causing the odor issue, along with making sure that we size the proposed STS-3 facility properly. Sterling Heights has agreed to share the cost associated with this odor study.

A motion was made by Mr. Santo, supported by Mr. Mijac to approve Change Order No. 3 for \$53,410.26 with Jacobs for an investigation of odor complaints near STS-3 and to split the costs with the City of Sterling Heights.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$6,478,259.89 to the board for review and approval.

A motion was made by Mr. Mijac, supported by Mr. Santo to approve the invoices as presented.

Adopted: YEAS: 3
NAYS: 0

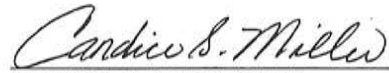
A motion to receive and file the financial report given by Mr. Manning was made by Mr. Mijac and supported by Mr. Santo.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. Santo, supported by Mr. Mijac, that the meeting of the Macomb Interceptor Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

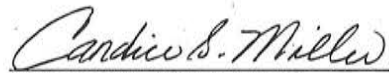
The meeting was adjourned at 11:35 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, November 9, 2020 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 11/9/20



Candice S. Miller

Public Works Commissioner
Macomb County

To: Board Members of the following Drainage Districts:
- Macomb Interceptor Drain Drainage District (MIDDD)
- Martin Sanitary Diversion Drainage District (MSDDD)

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: December 9, 2020

Subject: 2020 Interceptor Inspection Program – Contractor Recommendation

Macomb County Public Works Office (MCPWO), on behalf of the various Drainage Districts noted above, has coordinated the 2020 Interceptor Inspection Program which consists of routine televising and inspection of the large interceptors throughout these systems. Inspections of non-reinforced concrete pipe occurs every three (3) years and reinforced concrete pipe every six (6) years. Furthermore, the inspections within the MIDDD are in accordance with the Administrative Consent Order (ACO-004875) entered by the MIDDD with the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This is the largest inspection program that MCPWO has put out in one contract. Approximately 26 miles of pipe ranging from 12 inch to 11 feet in diameter. 363 manholes will be inspected with a three-dimensional scanner to provide a level 2 MACP rating. There will also be 12 drop shafts, which were rated high priority back in 2015, that will be inspected. A map of the inspection area has been attached to this memo.

In January 2020, MCPWO contracted with Fishbeck, Thompson, Carr & Huber, Inc. (now Fishbeck) to prepare contract documents, assist with bidding, and provide construction oversight for the Program. Detailed plans and specifications were then prepared and the project was publicly advertised on MITN. On December 3, 2020, MCPWO received the three (3) unit price bids as follows:

- Doetsch Environmental Services – \$ 421,254.75
- PipeTek Infrastructure Services – \$ 2,255,100.20
- Taplin Group, LLC – \$ 1,160,624.01

Fishbeck performed a review of the documents submitted by Doetsch and has indicated they believe Doetsch is capable of performing the work. A Pre-Award meeting was conducted with Doetsch on December 7, 2020 to discuss their bid price and the lack of acknowledgment of Addendum #1 in their bid package. At this meeting, Doetsch indicated that they were aware of Addendum #1 when their bid was submitted and that the cost of any changes related to this addendum have been accounted for in their bid price.

Below is a summary of the costs for each phase and drainage district:

Drainage District	Project Phase			Total Cost per District	Budgeted Amount
	Fishbeck Plans, Specs, & Bidding	Doetsch	Fishbeck Inspection		
MIDDD & NGIDDD	\$28,464.13	\$280,034.00	\$112,000.00	\$420,498.13	\$2,000,000
NGILLDDD	\$7,975.45	\$67,559.25	\$30,800.00	\$106,334.70	N/A*
SEMCWDS	\$7,012.90	\$64,958.50	\$30,100.00	\$102,071.40	\$200,000
MSDDD	\$247.52	\$8,703.00	\$13,200.00	\$22,150.52	\$25,000
Phase Total:	\$43,700.00	\$421,254.75	\$186,100.00	\$651,054.75	\$2,225,000

*The NGILLDDD inspection will be paid with existing Lenox Local funds as they will own the Lenox Local interceptor once the bonds are paid off.

MCPWO staff is recommending to award the contract to Doetsch Environmental Services in the total amount of \$421,254.75 to perform the work associated with the 2020 Interceptor Inspection Program. MCPWO staff is confident that Doetsch will be able to perform the work for the bid price. Doetsch has recently performed various tasks for MCPWO including chemical grouting of Segment 5, the 2020 Grouting Program, and support for Segment 6 3-D scanning efforts.

The bid form and Fishbeck's engineering contract were structured with several subtasks so that each District will only be invoiced for work performed in the respective District. Upon board approval, MCPWO staff will coordinate with Doetsch to finalize the contract.

Attachments: Map of Inspection Area
 Doetsch Bid Form Dated 12-03-20
 Fishbeck Recommendation Letter Dated 12-08-20

PLOT INFO: Z:\2020\200147\CAD\BOARD MTG.DWG LAYOUT: G-02 DATE: 12/9/2020 TIME: 9:56:37 AM USER: MESSDKI



OVERALL PLAN OF SANITARY SEWER SYSTEM

SCALE: NONE

fishbeck
 Engineers | Architects | Scientists | Constructors

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Macomb County, MI
**Macomb Interceptor Drain Drainage District
 2020 INTERCEPTOR INSPECTION PROGRAM**

PROJECT NO.	200147
FIGURE NO.	1

December 8, 2020
Project No. 200147

Keith Lumma
Construction Engineer
Macomb County Public Works
21777 Dunham Road
Clinton Township, MI 48306

Recommendation of Award
2020 Interceptor Inspection Program

Dear Mr. Lumma:

On December 3, 2020, at 10 a.m. the bid opening for the 2020 Interceptor Inspection Program occurred at the Macomb County Public Works Office. There were a total of three responsive bids with the following as-read bid results:

Doetsch Environmental Services	\$421,254.75
Taplin Group, LLC	\$1,160,624.01
Pipetek Infrastructure Services, LLC	\$2,255,100.20

Attached is the bid tabulation for the project, dated December 3, 2020. These tabulations are a true and correct summary of the proposals received.

Based on our review of the bids, we find the low bidder, Doetsch Environmental Services of Warren, Michigan, is satisfactory to perform the work under this contract.

Minimum Bid Document Observations

- The bid form did not acknowledge the addendum. Upon a follow up phone conversation on Monday, December 7, Sean Schotthoefer stated their electronic bid did have that checked and that they did receive and acknowledge the addendum and that their bid price is accurate. A copy of the written acknowledgment is attached.
- The Bid Bond provided, dated December 2, 2020, meets or exceeds 5% of the bid amount.
- The Bid Bond was issued by Platte River Insurance Company. We have confirmed the financial strength rating of A (excellent) for Platte River Insurance Company according to AM Best Rating Services.
- We verified Platte River Insurance Company is authorized to do business in Michigan according to the Department of Insurance and Financial Services (DIFS).

At this time, we recommend the low bidder, Doetsch Environmental Services, be awarded the Contract in the amount of \$421,254.75. The Contractor will still need to provide acceptable insurance and bonds as required in the Contract Documents.

Keith Lumma
December 8, 2020

Fishbeck | Page 2

If you have any questions or require additional information, please contact me at 734.888.8753 or jsiwek@fishbeck.com.

Sincerely,



Joseph Siwek, PE, LEED AP
Senior Water & Wastewater Engineer

By email
Attachments

5.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda: **[Add rows as needed. Bidder is to complete table.]**

Addendum Number	Addendum Date
1	11-25-2020

Sam M. Edwards

ARTICLE 6—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder’s Representations*

- A. In submitting this Bid, Bidder represents the following:
 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder’s (Contractor’s) safety precautions and programs.
 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

MCPWD Project No.: WMS-2019-021
 Date Bid Tab Prep: 12/8/2020
 Date of Bid Opening: 12/9/2020

Project: 2020 Interceptor Inspection Program

Owner: Macomb County Public Works Office

Engineer: Fishbeck
 45200 Card Road, Suite 128
 Macomb, MI 48044
 (586) 412-1466

BID TAB

ITEM NO.	ITEM	QTY	Unit	Engineer's Opinion of Construction Cost			Doetsch			Taplin			PipeTek		
				UNIT PRICE	CONTRACT AMOUNT	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT	
A.1	Mobilization (5% Max) - MIDDD & NGIDDD	1	LS	\$78,000.00	\$78,000.00	\$10,000.00	\$10,000.00	\$27,034.08	\$27,034.08	\$74,650.00	\$74,650.00				
A.2	Preconstruction Audio-Visual Documentation - MIDDD & NGIDDD	1	LS	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$6,352.72	\$6,352.72	\$50,667.50	\$50,667.50				
A.3	Traffic Control - MIDDD & NGIDDD	1	LS	\$40,000.00	\$40,000.00	\$1,000.00	\$1,000.00	\$77,086.69	\$77,086.69	\$30,000.00	\$30,000.00				
A.4	Soil Erosion and Sedimentation Control (As-Needed) - MIDDD & NGIDDD	480	SYD	\$7,500.00	\$7,500.00	\$1.00	\$1.00	\$2,000.00	\$2,000.00	\$5,875.00	\$5,875.00				
A.5	Remove and Replace Asphalt Pavement (As-Needed)	480	SYD	\$125.00	\$60,000.00	\$1.00	\$480.00	\$231.00	\$110,880.00	\$2,971.52	\$128,409.60				
A.6	Remove and Replace Concrete Pavement (As-Needed)	480	SYD	\$150.00	\$72,000.00	\$1.00	\$480.00	\$204.60	\$98,208.00	\$306.20	\$146,576.00				
A.7	Deconstruct, San Struc, R/C, Replace with New (As-Needed)	12	EA	\$900.00	\$10,800.00	\$1.00	\$12.00	\$2,973.85	\$35,686.20	\$2,000.00	\$24,000.00				
A.8	Deconstruct, San Struc, Chimney, Replace with New (As-Needed)	12	EA	\$1,000.00	\$12,000.00	\$1.00	\$12.00	\$2,979.90	\$35,758.80	\$1,500.00	\$18,000.00				
A.9	Deconstruct, San Struc, Cona, Replace with New (As-Needed)	12	EA	\$1,400.00	\$16,800.00	\$1.00	\$12.00	\$4,512.20	\$54,146.40	\$3,000.00	\$36,000.00				
A.10	Remove Platform, Concrete (As-Needed)	10	EA	\$3,800.00	\$38,000.00	\$1.00	\$10.00	\$3,800.30	\$38,003.00	\$3,000.00	\$30,000.00				
A.11	Remove Platform, Metal (As-Needed)	10	EA	\$1,500.00	\$15,000.00	\$1.00	\$10.00	\$2,999.23	\$29,992.30	\$3,000.00	\$30,000.00				
A.12	San Swr, Mil, 24", Inspect, Manage Data - MIDDD & NGIDDD	88	LF	\$8.00	\$704.00	\$1.50	\$132.00	\$68.10	\$5,992.80	\$4.00	\$352.00				
A.13	San Swr, Mil, 27", Inspect, Manage Data - MIDDD & NGIDDD	5,248	LF	\$9.00	\$47,232.00	\$1.50	\$7,864.50	\$1.70	\$8,913.10	\$4.00	\$20,972.00				
A.14	San Swr, Mil, 30", Inspect, Manage Data - MIDDD & NGIDDD	1,67	LF	\$1,336.00	\$2,230.12	\$1.75	\$292.25	\$16.49	\$27,533.83	\$4.00	\$688.00				
A.15	San Swr, Mil, 36", Inspect, Manage Data - MIDDD & NGIDDD	5,199	LF	\$8.00	\$41,592.00	\$1.75	\$9,098.25	\$1.86	\$9,670.14	\$4.50	\$23,395.50				
A.16	San Swr, Mil, 42", Inspect, Manage Data - MIDDD & NGIDDD	11,532	LF	\$8.00	\$92,256.00	\$2.00	\$23,064.00	\$1.32	\$15,222.24	\$4.50	\$51,894.00				
A.17	San Swr, Mil, 48", Inspect, Manage Data - MIDDD & NGIDDD	11,564	LF	\$8.00	\$92,512.00	\$2.00	\$23,088.00	\$1.36	\$15,854.92	\$5.00	\$57,920.00				
A.18	San Swr, Mil, 54", Inspect, Manage Data - MIDDD & NGIDDD	420	LF	\$10.00	\$4,200.00	\$2.00	\$860.00	\$1.01	\$420.00	\$5.00	\$2,100.00				
A.19	San Swr, Mil, 60", Inspect, Manage Data - MIDDD & NGIDDD	120	LF	\$10.00	\$1,200.00	\$2.00	\$240.00	\$2.72	\$326.40	\$11.00	\$1,320.00				
A.20	San Swr, Mil, 66", Inspect, Manage Data - MIDDD & NGIDDD	12,794	LF	\$10.00	\$127,940.00	\$2.00	\$25,588.00	\$2.75	\$35,188.50	\$11.00	\$140,734.00				
A.21	San Swr, Mil, 84", Inspect, Manage Data - MIDDD & NGIDDD	16,108	LF	\$15.00	\$241,620.00	\$2.50	\$40,270.00	\$1.93	\$31,088.44	\$14.00	\$225,512.00				
A.22	San Swr, Mil, 108", Inspect, Manage Data - MIDDD & NGIDDD	7,222	LF	\$15.00	\$108,330.00	\$2.50	\$18,045.00	\$1.99	\$14,358.45	\$14.00	\$101,106.00				
A.23	San Swr, Mil, 132", Inspect, Manage Data - MIDDD & NGIDDD	31,378	LF	\$15.00	\$470,670.00	\$2.50	\$78,445.50	\$2.05	\$64,324.90	\$14.00	\$439,320.00				
A.24	Standard Manhole, Inspect, Level 2 MACP, 3D Optical - MIDDD & NGIDDD	145	EA	\$250.00	\$36,250.00	\$200.00	\$29,000.00	\$88.23	\$12,708.35	\$200.00	\$29,000.00				
A.25	Junction Chamber, Inspect, Level 2 MACP, 3D Optical - MIDDD & NGIDDD	8	EA	\$1,500.00	\$12,000.00	\$750.00	\$6,000.00	\$34.17	\$2,678.35	\$300.00	\$2,400.00				
A.26	Drop Shaft, Inspect, Level 2 MACP, 3D Optical - MIDDD & NGIDDD	8	EA	\$2,000.00	\$16,000.00	\$750.00	\$6,000.00	\$61.91	\$7,615.28	\$300.00	\$2,400.00				
				Subtotal A	\$1,636,674.00	\$280,084.00	\$2,472.56	\$649,574.26	\$1,636,674.00	\$8,875.00	\$1,645,549.00				
B.1	Mobilization (5% Max) - NGILLDDO	1	LS	\$14,000.00	\$14,000.00	\$5,000.00	\$5,000.00	\$2,472.56	\$2,472.56	\$5,875.00	\$5,875.00				
B.2	Preconstruction Audio-Visual Documentation - NGILLDDO	1	LS	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$14,374.14	\$14,374.14	\$14,484.00	\$14,484.00				
B.3	Traffic Control - NGILLDDO	1	LS	\$75,000.00	\$75,000.00	\$1,000.00	\$1,000.00	\$10,990.84	\$10,990.84	\$25,000.00	\$25,000.00				
B.4	Soil Erosion and Sedimentation Control (As-Needed) - NGILLDDO	1	LS	\$5,000.00	\$5,000.00	\$1.00	\$1.00	\$2,000.00	\$2,000.00	\$6,875.00	\$6,875.00				
B.5	San Swr, Mil, 15", Inspect, Manage Data - NGILLDDO	5,751	LF	\$5.00	\$28,755.00	\$1.50	\$7,876.50	\$0.99	\$5,198.49	\$3.00	\$15,753.00				
B.6	San Swr, Mil, 24", Inspect, Manage Data - NGILLDDO	12,798	LF	\$8.00	\$102,384.00	\$1.50	\$19,194.00	\$0.99	\$12,608.64	\$4.00	\$50,944.00				
B.7	San Swr, Mil, 27", Inspect, Manage Data - NGILLDDO	4,782	LF	\$8.00	\$38,256.00	\$1.50	\$7,173.00	\$0.99	\$4,714.38	\$4.00	\$19,048.00				
B.8	San Swr, Mil, 36", Inspect, Manage Data - NGILLDDO	6,083	LF	\$8.00	\$48,664.00	\$1.75	\$10,662.75	\$0.99	\$6,032.07	\$4.50	\$27,418.50				
B.9	San Swr, Mil, 48", Inspect, Manage Data - NGILLDDO	85	LF	\$8.00	\$680.00	\$2.00	\$172.00	\$1.05	\$89.30	\$5.00	\$425.00				
B.10	Standard Manhole, Inspect, Level 2 MACP, 3D Optical - NGILLDDO	88	EA	\$250.00	\$22,000.00	\$200.00	\$17,600.00	\$186.27	\$16,391.76	\$200.00	\$17,600.00				
				Subtotal B	\$284,674.00	\$57,559.25	\$74,673.21	\$74,673.21	\$166,607.69	\$8,122.00	\$174,730.00				
C.1	Mobilization (5% Max) - SMCWYD5	1	LS	\$16,000.00	\$16,000.00	\$2,000.00	\$2,000.00	\$5,059.67	\$5,059.67	\$16,122.00	\$16,122.00				
C.2	Preconstruction Audio-Visual Documentation - SMCWYD5	1	LS	\$4,000.00	\$4,000.00	\$1,000.00	\$1,000.00	\$11,698.43	\$11,698.43	\$11,761.50	\$11,761.50				
C.3	Traffic Control - SMCWYD5	1	LS	\$30,000.00	\$30,000.00	\$1,000.00	\$1,000.00	\$17,678.35	\$17,678.35	\$25,000.00	\$25,000.00				
C.4	Soil Erosion and Sedimentation Control (As-Needed) - SMCWYD5	1	LS	\$5,000.00	\$5,000.00	\$1.00	\$1.00	\$2,000.00	\$2,000.00	\$6,875.00	\$6,875.00				
C.5	Remove and Replace Asphalt Pavement (As-Needed)	128	SYD	\$125.00	\$16,000.00	\$1.00	\$128.00	\$110.00	\$13,880.00	\$271.3	\$34,720.00				
C.6	Remove and Replace Concrete Pavement (As-Needed)	128	SYD	\$150.00	\$19,200.00	\$1.00	\$128.00	\$186.00	\$23,868.00	\$424.7	\$54,381.60				
C.7	Deconstruct, San Struc, R/C, Replace with New (As-Needed)	8	EA	\$900.00	\$7,200.00	\$1.00	\$8.00	\$2,658.00	\$21,264.00	\$2,000.00	\$16,000.00				
C.8	Deconstruct, San Struc, Chimney, Replace with New (As-Needed)	8	EA	\$1,000.00	\$8,000.00	\$1.00	\$8.00	\$2,709.00	\$21,672.00	\$2,500.00	\$20,000.00				

MCPWD Project No.: WMS-2019-021
 Date Bid Tab Prep: 12/9/2020
 Date of Bid Opening: 12/9/2020

Project: 2020 Interceptor Inspection Program

Owner: Macomb County Public Works Office

Engineer: Fishbeck
 45200 Card Road, Suite 128
 Macomb, MI 48044
 (586) 412-1406

BID TAB

ITEM NO.	ITEM	QTY	Unit	Engineer's Opinion of Construction Cost			Doetsch			Tepfin			PipeTek		
				UNIT PRICE	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT	UNIT PRICE	CONTRACT AMOUNT		
C-9	Deconstruct, San Struc, Cone, Replace with New (As-Needed)	8	EA	\$1,400.00	\$11,200.00	\$1.00	\$8.00	\$4,102.00	\$32,816.00	\$3,000.00	\$24,000.00	\$3.00	\$1,095.00	\$24,000.00	
C-10	San Swr, MIL 12", Inspect, Manage Data - SMCWWD	865	LF	\$5.00	\$4,325.00	\$1.50	\$547.50	\$1.00	\$865.00	\$3.00	\$2,595.00	\$3.00	\$1,773.00	\$1,773.00	
C-11	San Swr, MIL 15", Inspect, Manage Data - SMCWWD	591	LF	\$5.00	\$2,955.00	\$1.50	\$886.50	\$1.00	\$591.00	\$3.00	\$1,773.00	\$3.00	\$1,773.00	\$1,773.00	
C-12	San Swr, MIL 18", Inspect, Manage Data - SMCWWD	3,891	LF	\$5.00	\$19,455.00	\$1.50	\$5,836.50	\$1.00	\$3,891.00	\$3.00	\$11,673.00	\$3.00	\$11,673.00	\$11,673.00	
C-13	San Swr, MIL 21", Inspect, Manage Data - SMCWWD	2,182	LF	\$8.00	\$17,456.00	\$1.50	\$3,273.00	\$1.00	\$2,182.00	\$4.00	\$8,728.00	\$4.00	\$8,728.00	\$8,728.00	
C-14	San Swr, MIL 24", Inspect, Manage Data - SMCWWD	2,083	LF	\$8.00	\$16,664.00	\$1.50	\$3,124.50	\$1.00	\$2,083.00	\$4.00	\$8,332.00	\$4.00	\$8,332.00	\$8,332.00	
C-15	San Swr, MIL 27", Inspect, Manage Data - SMCWWD	724	LF	\$8.00	\$5,792.00	\$1.50	\$1,086.00	\$1.00	\$724.00	\$4.00	\$2,896.00	\$4.00	\$2,896.00	\$2,896.00	
C-16	San Swr, MIL 30", Inspect, Manage Data - SMCWWD	1,006	LF	\$8.00	\$8,048.00	\$1.75	\$1,760.50	\$1.00	\$1,006.00	\$4.50	\$4,527.00	\$4.50	\$4,527.00	\$4,527.00	
C-17	San Swr, MIL 36", Inspect, Manage Data - SMCWWD	3,596	LF	\$8.00	\$28,768.00	\$1.75	\$6,293.00	\$1.15	\$4,135.40	\$5.00	\$17,982.00	\$5.00	\$17,982.00	\$17,982.00	
C-18	San Swr, MIL 54", Inspect, Manage Data - SMCWWD	8,685	LF	\$10.00	\$86,850.00	\$2.00	\$17,370.00	\$1.40	\$12,159.00	\$20.00	\$173,700.00	\$20.00	\$173,700.00	\$173,700.00	
C-19	Standard Manhole, Inspect, Level 2 MACP, 3D Optical - SMCWWD	79	EA	\$250.00	\$19,750.00	\$300.00	\$23,970.00	\$186.78	\$14,716.12	\$300.00	\$23,970.00	\$300.00	\$23,970.00	\$23,970.00	
C-20	Siphon Structure, Inspect, Level 2 MACP, 3D Optical - SMCWWD	4	EA	\$1,500.00	\$6,000.00	\$750.00	\$3,000.00	\$394.21	\$1,585.64	\$300.00	\$1,200.00	\$300.00	\$1,200.00	\$1,200.00	
				Subtotal C	\$583,863.00	Subtotal C	\$84,058.50	Subtotal C	\$206,676.54	Subtotal C	\$338,988.10	Subtotal C	\$338,988.10	\$338,988.10	
B-1	Mobilization (5% Max) - MSDDD	1	LS	\$3,000.00	\$3,000.00	\$350.00	\$350.00	\$1,310.30	\$1,310.30	\$1,194.00	\$1,194.00	\$1,194.00	\$1,194.00	\$1,194.00	
B-2	Preconstruction Audio-Visual Documentation - MSDDD	1	LS	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$447.20	\$447.20	\$450.00	\$450.00	\$450.00	\$450.00	\$450.00	
B-3	Traffic Control - MSDDD	1	LS	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$1,693.60	\$1,693.60	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	
B-4	Soil Erosion and Sedimentation Control (As-Needed) - MSDDD	40	S/D	\$100.00	\$4,000.00	\$1.00	\$40.00	\$2,000.00	\$2,000.00	\$6,875.00	\$6,875.00	\$6,875.00	\$6,875.00	\$6,875.00	
B-5	Remove and Replace Asphalt Pavement (As-Needed)	2	EA	\$1,000.00	\$2,000.00	\$1.00	\$2.00	\$371.25	\$371.25	\$14,850.00	\$14,850.00	\$14,850.00	\$14,850.00	\$14,850.00	
D-5	Deconstruct, San Struc, R&C, Replace with New (As-Needed)	2	EA	\$4,000.00	\$8,000.00	\$2.00	\$4,000.00	\$4,023.80	\$8,047.60	\$2,000.00	\$4,000.00	\$2,000.00	\$4,000.00	\$4,000.00	
B-7	San Swr, MIL 42", Inspect, Manage Data - MSDDD	580	LF	\$8.00	\$4,640.00	\$2.00	\$1,160.00	\$5.62	\$3,259.60	\$4.50	\$2,610.00	\$4.50	\$2,610.00	\$2,610.00	
D-8	San Swr, MIL 84" x 144", Inspect, Manage Data - MSDDD	370	LF	\$50.00	\$18,500.00	\$2.50	\$925.00	\$7.09	\$2,608.80	\$25.00	\$9,250.00	\$25.00	\$9,250.00	\$9,250.00	
D-9	Standard Manhole, Inspect, Level 2 MACP, 3D Optical - MSDDD	3	EA	\$250.00	\$750.00	\$200.00	\$600.00	\$188.75	\$566.25	\$300.00	\$900.00	\$300.00	\$900.00	\$900.00	
D-10	Junction Chamber, Inspect, Level 2 MACP, 3D Optical - MSDDD	5	EA	\$1,500.00	\$7,500.00	\$750.00	\$3,750.00	\$498.33	\$2,491.65	\$300.00	\$1,500.00	\$300.00	\$1,500.00	\$1,500.00	
				Subtotal D	\$66,890.00	Subtotal D	\$8,709.00	Subtotal D	\$29,500.00	Subtotal D	\$46,079.00	Subtotal D	\$46,079.00	\$46,079.00	
TOTAL BID AMOUNT (A+B+C+D)					\$2,301,098.00		\$421,254.75		\$1,180,624.01		\$2,255,100.20		\$2,255,100.20	\$2,255,100.20	

I HEREBY CERTIFY THAT THE ABOVE IS THE TRUE AND CORRECT SUMMARY OF THE PROPOSALS RECEIVED

Joseph C. Siwek
 Fishbeck
 Joseph C. Siwek

Corrections
 1 Bidder's multiplication error was corrected
 2 Bidder's summation error was corrected
 3 Bidder's total was adjusted to reflect correction(s).

BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

- 1.01 This Bid is submitted to: **Macomb Interceptor Drain Drainage District**
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

- 2.01 The following documents are submitted with and made a condition of this Bid:
 - A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
 - E. Contractor’s license number as evidence of Bidder’s State Contractor’s License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
 - F. Required Bidder Qualification Statement with supporting data;

ARTICLE 3—LUMP SUM BID AND UNIT PRICES

- 3.01 Unit Price Bids
 - A. Bidder will perform the following Work at the indicated unit prices:

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
				\$	\$
A. MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDDD) and NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGIDDD):					
A.1	Mobilization (5% Max) – MIDDD & NGIDDD	LS	1	10,000.00	10,000.00
A.2	Preconstruction Audio-Visual Documentation – MIDDD & NGIDDD	LS	1	1,000.00	1,000.00
A.3	Traffic Control – MIDDD & NGIDDD	LS	1	1,000.00	1,000.00
A.4	Soil Erosion and Sedimentation Control (As-Needed) – MIDDD & NGIDDD	LS	1	1.00	1.00
A.5	Remove and Replace Asphalt Pavement (As-Needed)	SYD	480	1.00	480.00

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
				\$	\$
A.6	Remove and Replace Concrete Pavement (As-Needed)	SYD	480	1.00	480.00
A.7	Deconstruct, San Struc, F&C, Replace with New (As-Needed)	EA	12	1.00	12.00
A.8	Deconstruct, San Struc, Chimney, Replace with New (As-Needed)	EA	12	1.00	12.00
A.9	Deconstruct, San Struc, Cone, Replace with New (As-Needed)	EA	12	1.00	12.00
A.10	Remove Platform, Concrete (As-Needed)	EA	10	1.00	12.00
A.11	Remove Platform, Metal (As-Needed)	EA	10	1.00	12.00
A.12	San Swr, ML, 24", Inspect, Manage Data – MIDDD & NGIDDD	LF	88	1.50	132.00
A.13	San Swr, ML, 27", Inspect, Manage Data – MIDDD & NGIDDD	LF	5243	1.50	7,864.50
A.14	San Swr, ML, 30", Inspect, Manage Data – MIDDD & NGIDDD	LF	167	1.75	292.25
A.15	San Swr, ML, 36", Inspect, Manage Data – MIDDD & NGIDDD	LF	5199	1.75	9,098.25
A.16	San Swr, ML, 42", Inspect, Manage Data – MIDDD & NGIDDD	LF	11532	2.00	23,064.00
A.17	San Swr, ML, 48", Inspect, Manage Data – MIDDD & NGIDDD	LF	11054	2.00	22,108.00
A.18	San Swr, ML, 54", Inspect, Manage Data – MIDDD & NGIDDD	LF	430	2.00	860.00
A.19	San Swr, ML, 60", Inspect, Manage Data – MIDDD & NGIDDD	LF	120	2.00	240.00
A.20	San Swr, ML, 66", Inspect, Manage Data – MIDDD & NGIDDD	LF	12794	2.00	25,588.00
A.21	San Swr, ML, 84", Inspect, Manage Data – MIDDD & NGIDDD	LF	16108	2.50	40,270.00
A.22	San Swr, ML, 108", Inspect, Manage Data – MIDDD & NGIDDD	LF	7222	2.50	18,055.00
A.23	San Swr, ML, 132", Inspect, Manage Data – MIDDD & NGIDDD	LF	31378	2.50	78,445.00
A.24	Standard Manhole, Inspect, Level 2 MACP, 3D Optical – MIDDD & NGIDDD	EA	145	200.00	29,000.00
A.25	Junction Chamber, Inspect, Level 2 MACP, 3D Optical – MIDDD & NGIDDD	EA	8	750.00	6,000.00
A.26	Drop Shaft, Inspect, Level 2 MACP, 3D Optical – MIDDD & NGIDDD	EA	8	750.00	6,000.00
A = Total of All Unit Price Bid Items – MIDDD					\$ 280,034.00

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
				\$	\$
B. NORTH GRATIOT INTERCEPTOR-LENOX LOCAL DRAIN DRAINAGE DISTRICT (NGILLDDD)					
B.1	Mobilization (5% Max) – NGILLDDD	LS	1	3,000.00	3,000.00
B.2	Preconstruction Audio-Visual Documentation – NGILLDDD	LS	1	1,000.00	1,000.00
B.3	Traffic Control – NGILLDDD	LS	1	1,000.00	1,000.00
B.4	Soil Erosion and Sedimentation Control (As-Needed) – NGILLDDD	LS	1	1.00	1.00
B.5	San Swr, ML, 15", Inspect, Manage Data – NGILLDDD	LF	5251	1.50	7,876.50
B.6	San Swr, ML, 24", Inspect, Manage Data – NGILLDDD	LF	12736	1.50	19,104.00
B.7	San Swr, ML, 27", Inspect, Manage Data – NGILLDDD	LF	4762	1.50	7,143.00
B.8	San Swr, ML, 36", Inspect, Manage Data – NGILLDDD	LF	6093	1.75	10,662.75
B.9	San Swr, ML, 48", Inspect, Manage Data – NGILLDDD	LF	86	2.00	172.00
B.10	Standard Manhole, Inspect, Level 2 MACP, 3D Optical – NGILLDDD	EA	88	200.00	17,600.00
B = Total of All Unit Price Bid Items – NGILLDDD					\$ 67,559.25
C. SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM (SMCWWDS)					
C.1	Mobilization (5% Max) – SMCWWDS	LS	1	3,000.00	3,000.00
C.2	Preconstruction Audio-Visual Documentation – SMCWWDS	LS	1	1,000.00	1,000.00
C.3	Traffic Control – SMCWWDS	LS	1	1,000.00	1,000.00
C.4	Soil Erosion and Sedimentation Control (As-Needed) – SMCWWDS	LS	1	1.00	1.00
C.5	Remove and Replace Asphalt Pavement (As-Needed)	SYD	128	1.00	128.00
C.6	Remove and Replace Concrete Pavement (As-Needed)	SYD	128	1.00	128.00
C.7	Deconstruct, San Struc, F&C, Replace with New (As-Needed)	EA	8	1.00	8.00
C.8	Deconstruct, San Struc, Chimney, Replace with New (As-Needed)	EA	8	1.00	8.00
C.9	Deconstruct, San Struc, Cone, Replace with New (As-Needed)	EA	8	1.00	8.00
C.10	San Swr, ML, 12", Inspect, Manage Data – SMCWWDS	LF	365	1.50	547.50
C.11	San Swr, ML, 15", Inspect, Manage Data – SMCWWDS	LF	591	1.50	886.50
C.12	San Swr, ML, 18", Inspect, Manage Data – SMCWWDS	LF	3891	1.50	5,836.50
C.13	San Swr, ML, 21", Inspect, Manage Data – SMCWWDS	LF	2182	1.50	3,273.00
C.14	San Swr, ML, 24", Inspect, Manage Data – SMCWWDS	LF	2083	1.50	3,124.50
C.15	San Swr, ML, 27", Inspect, Manage Data – SMCWWDS	LF	724	1.50	1,086.00
C.16	San Swr, ML, 30", Inspect, Manage Data – SMCWWDS	LF	1006	1.75	1,760.50
C.17	San Swr, ML, 36", Inspect, Manage Data – SMCWWDS	LF	3996	1.75	6,993.00

EJCDC® C-410, Bid Form for Construction Contract.

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Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
				\$	\$
C.18	San Swr, ML, 54", Inspect, Manage Data – SMCWWDS	LF	8685	2.00	17,370.00
C.19	Standard Manhole, Inspect, Level 2 MACP, 3D Optical – SMCWWDS	EA	79	200.00	15,800.00
C.20	Siphon Structure, Inspect, Level 2 MACP, 3D Optical – SMCWWDS	EA	4	750.00	3,000.00
C = Total of All Unit Price Bid Items – SMCWWDS					\$64,958.50
D. MARTIN SANITARY DIVERSION DRAINAGE DISTRICT (MSDDD)					
D.1	Mobilization (5% Max) – MSDDD	LS	1	350.00	
D.2	Preconstruction Audio-Visual Documentation – MSDDD	LS	1	1,000.00	1,000.00
D.3	Traffic Control – MSDDD	LS	1	1,000.00	1,000.00
D.4	Soil Erosion and Sedimentation Control (As-Needed) – MSDDD	LS	1	1.00	1.00
D.5	Remove and Replace Asphalt Pavement (As-Needed)	SYD	40	1.00	40.00
D.6	Deconstruct, San Struc, F&C, Replace with New (As-Needed)	EA	2	1.00	2.00
D.7	San Swr, ML, 42", Inspect, Manage Data – MSDDD	LF	580	2.00	1,160.00
D.8	San Swr, ML, 84" x 144", Inspect, Manage Data – MSDDD	LF	320	2.50	800.00
D.9	Standard Manhole, Inspect, Level 2 MACP, 3D Optical – MSDDD	EA	3	200.00	600.00
D.10	Junction Chamber, Inspect, Level 2 MACP, 3D Optical – MSDDD	EA	5	750.00	3,750.00
D Total of All Unit Price Bid Items – MSDDD					\$ 8,703.00

3.02 Total Base Bid Price (Unit Prices)

Total Base Bid Price (Total of all Unit Price Bids: A +B+C+D)	\$ 421,254.75
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ARTICLE 4—TIME OF COMPLETION

4.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 Bid Acceptance Period

A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda: **[Add rows as needed. Bidder is to complete table.]**

Addendum Number	Addendum Date

ARTICLE 6—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder’s Representations*

- A. In submitting this Bid, Bidder represents the following:
 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder’s (Contractor’s) safety precautions and programs.
 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

6.02 *Bidder's Certifications*

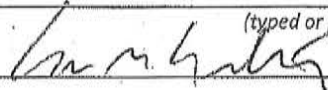
A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
 - c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
 - d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder: DOETSCH ENVIRONMENTAL SERVICES

(typed or printed name of organization)

By: 
(Individual's signature)

Name: SEAN SCHOTTHOEFER
(typed or printed)

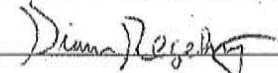
Title: VICE PRESIDENT

(typed or printed)

Date: 12-2-2020

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: 
(Individual's signature)

Name: DIANN REGELBRUGGE

(typed or printed)

Title: PRESIDENT

(typed or printed)

Date: 12-2-2020

(typed or printed)

Address for giving notices:
21221 MULLIN AVE, WARREN, MI 48089

Bidder's Contact:
Name: SEAN SCHOTTHEOFER
(typed or printed)

Title: VICE PRESIDENT

(typed or printed)

Phone: 586-755-2090

Email: SEAN@DOETSCHENV.COM

Address: 21221 MULLIN AVE, WARREN, MI 48089

Bidder's Contractor License No.: (if applicable) _____

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5.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda: **[Add rows as needed. Bidder is to complete table.]**

Addendum Number	Addendum Date
1	11-25-2020

Sam M. Edwards

ARTICLE 6—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder’s Representations*

- A. In submitting this Bid, Bidder represents the following:
 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder’s (Contractor’s) safety precautions and programs.
 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

Post-bid acknowledgment of Add#1 and confirmation that bid price, as submitted, will be held by Doetsch



Steven Wagner <steven.wagner@macombgov.org>

2020 Interceptor Insp Pre-Award Mtg

sean@doetschenv.com <sean@doetschenv.com>

Mon, Dec 7, 2020 at 1:22 PM

To: "Sedki, Maria" <mesedki@fishbeck.com>, joe@doetschenv.com, vincent.astorino@macombgov.org, Keith Lumma - AEW <keith.lumma@macombgov.org>, Steven Wagner <steven.wagner@macombgov.org>, "Siwek, Joe" <jsiwek@fishbeck.com>
Cc: "Turczynski, Bryan" <bdturczynski@fishbeck.com>

Maria,

We acknowledge the receipt of addendum one and our pricing will be held as bid. Please see the attached acknowledgement. If there is anything further that you need, please let me know.

Sean

Sean M Schotthoefler
Finance Director
Doetsch Environmental Services
21221 Mullin
Warren, MI 48089
586.755.2090
www.doetschenv.com

*** Notice from Doetsch Industrial Services, Inc, DIH, Inc.: This Internet message may contain information that is privileged, confidential, and exempt from disclosure. It is intended for use only by the person to whom it is addressed. If you have received this in error, please (1) do not forward or use this information in any way; and (2) contact me immediately. Neither this information block, the typed name of the sender, nor anything else in this message is intended to constitute an electronic signature unless a specific statement to the contrary is included in this message.

-----Original Appointment-----

From: Sedki, Maria <mesedki@fishbeck.com>

Sent: Monday, December 7, 2020 9:35 AM

To: joe@doetschenv.com; sean@doetschenv.com; vincent.astorino@macombgov.org; Keith Lumma - AEW (keith.lumma@macombgov.org); Steven Wagner; Siwek, Joe

Cc: Turczynski, Bryan

Subject: 2020 Interceptor Insp Pre-Award Mtg

When: Monday, December 7, 2020 1:00 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: <https://fishbeck.zoom.us/j/95610749634?pwd=YURRc1pmeGpZRTVkaTZCSHhUbmxdz09>



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: FILE

From: Vincent Astorino, Operations & Flow Manager

Date: December 14, 2020

Subject: Change Order #1 Approval Request for Dye-Dilution Testing Services – Applied Science, Inc.

The 2017/2018 Macomb Interceptor Drain Drainage District (MIDDD) budget allocated \$100,000 for Dye-Dilution Testing Services. A competitive bid was issued on MITN for consultants to submit a Statement of Qualifications and Rate Schedule, only one bid was received. The Board approved the recommendation to award Applied Science, Inc., with a budget of \$100,000.

In December, 2017 the MIDDD entered into an agreement with Applied Science, Inc. Since that time, Applied Science, Inc. has successfully provided the requested Dye-Dilution Testing at MIDDD facilities. Dye-Dilution Testing is a means of verifying community billing meters. These tests ensure that each flow meter in the MIDDD is reporting accurate flow rates and volumes.

The 2018/2019 MIDDD budget allocated \$100,000 for Dye-Dilution Testing Services. This funding has been carried over into the 2020/2021 budget. At this time, allocating additional funds from the 2020/2021 budget to Applied Science, Inc. is requested.

A draft copy of this change order has been attached for reference. On behalf of the MCPWO Engineering staff please approve this request to allocate \$100,000 as Change Order No. 1 to the Applied Science, Inc. Dye-Dilution Testing contract.

Attachments: Draft Change Order No. 1

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

		Change Order	01
Date of Issuance:	12/14/20	Effective Date:	12/14/20
Owner:	MIDDD	Owner's Contract No.:	WWS-18-003
Engineer:	Applied Science, Inc.	Project No.:	
Project:	Dye-Dilution Testing	Contract Name:	

The Contract is modified as follows upon execution of this Change Order: Add \$100,000 to existing contract to provide dye-dilution testing services at the direction of MCPWO Engineering staff.

The original Contract Sum was: \$ 100,000.00

The Contract Sum prior to this Change Order: \$ 100,000.00

The Contract Sum prior to this Change Order will be increased by: \$ 100,000.00

The new Contract Sum, including this Change Order, will be: \$ 200,000.00

The Contract Time will be unchanged by: 0 (days)

The date of Substantial Completion as of the date of this Change Order, therefore, is: N/A

ACCEPTED: By: _____ Owner (Authorized Signature)	ACCEPTED: By: _____ Engineer (Authorized Signature)
Title _____ Date _____	Title _____ Date _____



Candice S. Miller
Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members
From: Stephen Downing, Construction & Maintenance Manager
Date: December 1, 2020
Subject: Lawn Maintenance Contract Renewal – Marino’s Landscape

Marino’s Landscape performs lawn maintenance services for multiple entities of which the Macomb County Public Works is responsible to manage. In 2019 several Drainage District Boards and Commissioner Miller on behalf of Chapter 4 and Act 342 Drains approved entering an Agreement with Marino’s Landscape to perform the defined services for two years with the third year optional to the Owner. Marino’s Landscape was the low bidder in a competitively and publicly published Request for Quotation on MITN. A recap of the bid process is shown below for reference.

The Request for Quotation (RFQ) was published on MITN for Lawn Maintenance at locations identified in Table 3. The RFQ was posted from January 7th, 2019 to February 5th, 2019 with Fifty-One (51) contractors downloading documents during the posting period. On February 5th there were three quotations received, which are summarized in Table 1.

The contractors were directed to provide pricing to perform lawn maintenance service from May 1st through October 31st for 2019 and 2020. The 2021 season will be an Owner’s option based on performance and pricing submitted at the conclusion of the 2020 season.

Table 1 – Bid Summary

	Contractor	2019 Cost	2020 Cost
1	Marino’s Landscape	\$28,725.00	30,232.00
2	Ultimate Lawn Service	\$31,320.00	31,320.00
3	Pro-Mo Lawn & Landscape	\$79,760.00	Not Provided

The total cost allocated to the respective drainage districts in the original contract is summarized in Table 2. The contractor, Marino’s Landscape, executed a contract with each of the 10 drainage districts.

Table 2 – Drainage District Cost Summary

No.	Drainage District	Drain Chapter	2019 Cost	2020 Cost
1	MIDDD	20	\$8,200.00	\$8,567.00
2	8 ½ Mile Relief	20	\$8,100.00	\$8,532.00
3	Martin Sanitary Diversion	20	\$675.00	\$729.00
4	SEMCWDS	342	\$1,350.00	\$1,458.00
5	Clinton River Spillway	21	\$5,200.00	\$5,460.00
6	Roseville Consolidated	20	\$975.00	\$1,027.00
7	Bridgewood	4	\$390.00	\$416.00
8	Hildebrandt	4	\$1,885.00	\$1,989.00
9	Shanahan Drain	20	\$1,235.00	\$1,300.00
10	11 ½ Mile Relief	20	\$715.00	\$754.00
TOTAL			\$28,275.00	\$30,232.00

Marino’s Landscape have performed exceptionally and have provided services on schedule. Further, they have been flexible in several scenarios to accept additional scope based on individual site requirements or new areas of concern that arise and adjust due to other maintenance efforts within the drains. The MCPWO personnel have been completely satisfied with the customer service throughout the current contract term.

The Marino’s Landscape Project Manager contacted the MCPWO in September to express the desire to extend the period of contract, offering to hold the 2020 rates for the next three years. The cost per cut, frequency of cut, season total for each site and each drainage district is illustrated in **Table 3** for the 2020 season. Marino’s Landscape will hold the same pricing for the 2021, 2022 and 2023 seasons. A contract amendment will be executed to extend the term and assign the cost for three years.

The action is that the Macomb Interceptor Drain Drainage District Board authorize the Board Chair to sign a contract amendment to extend the Marino’s Landscape contract, the extension includes the 2021, 2022 and 2023 seasons for the lump sum cost of \$25,701 (\$8,567 Annually).

Table 3 – 2020 Cost Summary

No.	Drainage District	Name/Location	Cut	Trim	Frequency	# of Cuts	2020 Cost Per Cut	Total Cost for 2020 Season
1	Clinton River Spillway	Clinton River Spillway	Yes	No	Twice a Month	13	\$420.00	\$5,460.00
2	Roseville Consolidated	Roseville Consolidated	Yes	No	Twice a Month	13	\$79.00	\$1,027.00
3	Bridgewood	Bridgewood	Yes	Yes	Twice a Month	13	\$32.00	\$416.00
4	Hildebrandt	Hildebrandt	Yes	Yes	Twice a Month	13	\$153.00	\$1,989.00
5	MIDDD	Sewage Flow Meter Site CH-S-1	Yes	Yes	Twice a Month	13	\$28.00	\$364.00
6	MIDDD	Sewage Flow Meter Site CH-S-2	Yes	No	Twice a Month	13	\$28.00	\$364.00
7	Shanahan Drain	Shanahan Drain Property	Yes	No	Twice a Month	13	\$100.00	\$1,300.00
8	MIDDD	Bio Filter	Yes	Yes	Once a Week	27	\$47.00	\$1,269.00
9	MIDDD	Sewage Meter Facility SY-S-3	Yes	Yes	Twice a Month	13	\$28.00	\$364.00
10	MIDDD	Sewage Meter Facility ST-S-3	Yes	Yes	Twice a Month	13	\$28.00	\$364.00
11	MIDDD	North Gratiot Pump Station	Yes	Yes	Once a Week	27	\$47.00	\$1,269.00
12	MIDDD	Clintondale Pump Station	Yes	Yes	Once a Week	27	\$47.00	\$1,269.00
13	MIDDD	Sewage Flow Meter Site NH-S-1	Yes	Yes	Twice a Month	13	\$28.00	\$364.00
14	MIDDD	ARV Vaults – 23 locations	Yes	Yes	Once a Month	7	\$420.00	\$2,940.00
15	11 ½ Mile Relief	11 ½ Mile Relief Property	Yes	Yes	Twice a Month	13	\$58.00	\$754.00
16	SEMCWDS	Bon Huer Pump Station	Yes	Yes	Once a Week	27	\$27.00	\$729.00
17	SEMCWDS	Violet Pump Station	Yes	Yes	Once a Week	27	\$27.00	\$729.00
18	8 ½ Mile Relief	Chapaton Retention Treatment Basin	Yes	Yes	Once a Week	27	\$289.00	\$7,803.00
19	8 ½ Mile Relief	Vacant Lot on Gaukler Street	Yes	Yes	Once a Week	27	\$27.00	\$729.00
20	Martin Sanitary Diversion	Martin Retention Treatment Basin	Yes	Yes	Once a Week	27	\$27.00	\$729.00

Attachments: None

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ SOIL EROSION • Phone: 586-469-5327 • Fax 586-307-8264



Candice S. Miller
Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: FILE

From: Stephen Downing, Construction & Maintenance Manager

Date: December 1, 2020

Subject: Romeo Arm Segment 5 Chemical Grouting – Doetsch Change Order No. 2

The MIDDD engaged with Doetsch Environmental Services in August 2019 to perform chemical grouting and maintenance in the Segment 5 reach of the Romeo Arm Interceptor along 15 Mile Road between the ITC Corridor and Fontana Dr. in Sterling Heights, MI. In April 2020, Doetsch was relocated to a different reach of sewer, leaving the last 110 linear feet remaining to grout. The initial contract established was based on a Time & Material not-to-exceed of \$350,000. At the conclusion of grouting in August 2019 it was quickly observed that the budget initially established was much less than what the cost would be. Our staff continued to report the progress of the grouting program at the monthly Drain Board meeting from September 2019 through May 2020 when the Segment 5 grouting operation was paused. The total cost incurred for chemical grouting from August 2019 through April 30, 2020 was \$2,596,615.60. This amount is memorialized as the initial contract value as the basis for future change orders.

In June 2020, Change Order No. 1 was executed which increased the budget by \$3,000,000 to start chemical grouting operations in other reaches of the system. This work progressed from June 2020 through mid-September 2020 when it was paused to return to Segment 5.

In September 2020, the final 110 linear feet of Segment 5 was chemically grouted, the total cost incurred by Doetsch is \$68,542.05. The revised contract value for this contract is \$5,665,157.65. There is a remaining budget of approximately \$2,000,000 for chemical grouting in the Lakeshore and Garfield Interceptors.

The recommendation is that the Macomb Interceptor Drain Drainage District Board approve Change Order No. 2 for the costs incurred by Doetsch Environmental Services to complete the Segment 5 Chemical Grouting efforts for the total add of \$68,542.05.

Attachments: Change Order No. 2 - Draft

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

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ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

Date of Issuance: 12/2/2020
Owner: Macomb Interceptor Drain
Drainage District
Engineer: FKE / AEW

Effective Date: 06/09/20
Owner's Contract No.: WWS-2019-011 & WWS-2020-001
Engineer Contract No.: 17-134 (FKE) & 0211-0207-0 (AEW)
Contract Name: MID Grouting Project

The Contract is modified as follows upon execution of this Change Order:

Add \$68,542.05 to the existing contract includes costs incurred to finish grouting the final 110 linear feet of Segment 5 near the confluence with PCI-7 at the ITC Corridor.

The original Contract Sum was:	<u>N/A - Time & Materials</u>
The net change from previously approved Change Orders No. 1 to No: 1	<u>\$3,000,000.00</u>
The Contract Sum prior to this Change Order:	<u>\$ 5,596,615.60</u>
The Contract Sum prior to this Change Order will be increased by:	<u>\$ 68,542.05</u>
The new Contract Sum, including this Change Order, will be:	<u>\$ 5,665,157.65</u>
The Contract Time will be changed by:	0 (days)
The date of Substantial Completion as of the date of this Change Order, therefore, is: N/A	

ACCEPTED:

ACCEPTED:

By: _____
Owner (Authorized Signature)

By: _____
Contractor (Authorized Signature)

Title _____
Date _____

Title _____
Date _____

DOETSCH

ENVIRONMENTAL SERVICES

21221 Mullin Ave. Warren, MI 48089
Phone: 586-755-2090 Fax: 586-755-2099
www.doetschenv.com

Bill To:

MACOMB COUNTY PUBLIC WORKS
 21777 DUNHAM RD
 CLINTON TOWNSHIP, MI 48036

Ship to:

15 MILE RD AND GARFIELD
 PHASE I GROUTING

INVOICE DATE	INVOICE NUMBER	CUSTOMER PO	PAYMENT TERMS
Oct 28, 2020	71420		Net 10 Days
10.00	GROUT TRUCK	100.00 P/HOUR	1,000.00
10.00	BLOWER	25.00 P/HOUR	250.00
10.00	CSE TRAILER	20.00 P/HOUR	200.00
437.47	GROUT	20.00 P/GAL	8,749.40
8.00	OPERATOR	70.00 P/HOUR	560.00
3.50	OPERATOR, OVERTIME	80.00 P/HOUR	280.00
8.00	CSE ENTRY TECH	65.00 P/HOUR	520.00
3.75	CSE ENTRY TECH, OT	75.00 P/HOUR	281.25
8.00	CSE ENTRY TECH	65.00 P/HOUR	520.00
3.75	CSE ENTRY TECH, OT	75.00 P/HOUR	281.25
8.00	OPERATOR	70.00 P/HOUR	560.00
3.75	OPERATOR, OVERTIME	80.00 P/HOUR	300.00
		OCTOBER 12, 2020	
10.00	GROUT TRUCK	100.00 P/HOUR	1,000.00
10.00	BLOWER	25.00 P/HOUR	250.00
10.00	CSE TRAILER	20.00 P/HOUR	200.00
623.76	GROUT	20.00 P/GAL	12,475.20
8.00	OPERATOR	70.00 P/HOUR	560.00
3.50	OPERATOR, OVERTIME	80.00 P/HOUR	280.00
8.00	CSE ENTRY TECH	65.00 P/HOUR	520.00
3.75	CSE ENTRY TECH, OT	75.00 P/HOUR	281.25
8.00	CSE ENTRY TECH	65.00 P/HOUR	520.00
3.25	CSE ENTRY TECH, OT	75.00 P/HOUR	243.75
8.00	PROJECT MANAGER	75.00 P/HOUR	600.00
3.75	PROJECT MANAGER, OT	85.00 P/HOUR	318.75
9.50	GROUT TRUCK	100.00 P/HOUR	950.00
9.50	BLOWER	25.00 P/HOUR	237.50
9.50	CSE TRAILER	20.00 P/HOUR	190.00
520.40	GROUT	20.00 P/GAL	10,408.00
8.00	OPERATOR	70.00 P/HOUR	560.00
3.75	OPERATOR, OVERTIME	80.00 P/HOUR	300.00
		OCTOBER 13, 2020	
Total Invoice Amount			Continued
Payment/Credit Applied			
TOTAL			Continued

Check/Credit Memo

DOETSCH

ENVIRONMENTAL SERVICES

21221 Mullin Ave. Warren, MI 48089
Phone: 586-755-2090 Fax: 586-755-2099
www.doetschenv.com

Bill To:

MACOMB COUNTY PUBLIC WORKS
 21777 DUNHAM RD
 CLINTON TOWNSHIP, MI 48036

Ship to:

15 MILE RD AND GARFIELD
 PHASE I GROUTING

INVOICE DATE	INVOICE NUMBER	CUSTOMER PO	PAYMENT TERMS
Oct 28, 2020	71420		Net 10 Days
8.00 CSE ENTRY TECH	65.00 P/HOUR		520.00
3.75 CSE ENTRY TECH, OT	75.00 P/HOUR		281.25
8.00 CSE ENTRY TECH	65.00 P/HOUR		520.00
3.75 CSE ENTRY TECH, OT	75.00 P/HOUR		281.25
8.00 OPERATOR	75.00 P/HOUR		600.00
3.75 OPERATOR, OVERTIME	85.00 P/HOUR	OCTOBER 14, 2020	318.75
11.00 GROUT TRUCK	100.00 P/HOUR		1,100.00
11.00 BLOWER	25.00 P/HOUR		275.00
11.00 CSE TRAILER	20.00 P/HOUR		220.00
405.17 GROUT	20.00 P/GAL		8,103.40
8.00 OPERATOR	70.00 P/HOUR		560.00
4.25 OPERATOR, OVERTIME	80.00 P/HOUR		340.00
8.00 CSE ENTRY TECH	65.00 P/HOUR		520.00
4.00 CSE ENTRY TECH, OT	75.00 P/HOUR		300.00
8.00 CSE ENTRY TECH	65.00 P/HOUR		520.00
4.00 CSE ENTRY TECH, OT	75.00 P/HOUR		300.00
8.00 PROJECT MANAGER	75.00 P/HOUR		600.00
3.75 PROJECT MANAGER, OT	85.00 P/HOUR	OCTOBER 15, 2020	318.75
7.50 GROUT TRUCK	100.00 P/HOUR		750.00
7.50 BLOWER	25.00 P/HOUR		187.50
7.50 CSE TRAILER	20.00 P/HOUR		150.00
302.24 GROUT	20.00 P/GAL		6,044.80
8.00 OPERATOR	70.00 P/HOUR		560.00
0.75 OPERATOR, OVERTIME	80.00 P/HOUR		60.00
8.00 CSE ENTRY TECH	65.00 P/HOUR		520.00
0.75 CSE ENTRY TECH, OT	75.00 P/HOUR		56.25
8.00 CSE ENTRY TECH	65.00 P/HOUR		520.00
0.75 CSE ENTRY TECH, OT	75.00 P/HOUR		56.25
7.50 PROJECT MANAGER	75.00 P/HOUR	OCTOBER 16, 2020	562.50
Total Invoice Amount			68,542.05
Payment/Credit Applied			
Check/Credit Memo			
TOTAL			68,542.05



Candice S. Miller
Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: FILE

From: Stephen Downing, Construction & Maintenance Manager

Date: December 1, 2020

Subject: Romeo Arm Segment 5 Chemical Grouting – FKE Change Order No. 3

FK Engineering has provided engineering services for the inspection, observation, and oversight of the chemical grouting operations in the Segment 5 reach of the Romeo Arm Interceptor. This effort started in June 2019 and was completed in October 2020. The initial contract amount of \$75,000 has been increased twice previously to a revised contract amount of \$350,000 with the latest increase in October 2019 for \$200,000.

The last invoice, which includes their final costs for Segment 5, received for FK Engineering's services leaves their contract short by \$54,649.79. The intent of this change order is to balance their contract.

The recommendation is that the Macomb Interceptor Drain Drainage District Board approve Change Order No. 3 for the costs incurred by FK Engineering to complete the Segment 5 Chemical Grouting efforts for the total add of \$54,649.79.

Attachments: Draft Change Order No. 3

Date of Issuance: 10/21/19
Owner: Macomb Interceptor Drain
Drainage District
Engineer: FK Engineering

Effective Date: 12/01/2020
Owner's Contract No.: WWS-2018-002
Engineer Contract No.: 17-134
Contract Name: MIDDD As-Needed

The Contract is modified as follows upon execution of this Change Order:

Add \$54,649.79 to the existing contract to balance the cost incurred to finish chemical grouting oversight for Segment 5 with Doetsch Environmental Services.

The original Contract Sum was:	<u>\$ 75,000.00</u>
The net change from previously approved Change Orders No. 2 to No: 2	<u>\$ 275,000.00</u>
The Contract Sum prior to this Change Order:	<u>\$ 350,000.00</u>
The Contract Sum prior to this Change Order will be increased by:	<u>\$ 54,649.79</u>
The new Contract Sum, including this Change Order, will be:	<u>\$ 404,649.79</u>
The Contract Time will be unchanged by:	0 (days)
The date of Substantial Completion as of the date of this Change Order, therefore, is: N/A	

ACCEPTED:

By: _____
Owner (Authorized Signature)

ACCEPTED:

By: _____
Engineer (Authorized Signature)

Title _____

Date _____

Title _____

Date _____



Candice S. Miller
Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: FILE

From: Stephen Downing, Construction & Maintenance Manager

Date: December 1, 2020

Subject: Romeo Arm Segment 5 Rehabilitation CS-12 Electrical Design – FKE Change Order No. 3

The MIDD engaged with FK Engineering in October 2019 to provide engineering design services for the rehabilitation of Romeo Arm Segment 5. The project's design did not initially include a permanent pump station at the new CS-12 access structure located at the confluence of PCI-12A and PCI-7 just south of 15 Mile Road at the ITC Corridor. The original design considered a flume with small pumps to facilitate dewatering of the interceptor up stream of the CS-12 shaft during rehabilitation of Segment 5. The permanent pump station concept gained traction late in the design when discussion on the benefit of a permanent pump station with larger pumps would benefit the rehabilitation of other segments, the first being Segment 6. The SRF schedule did not allow time for the design of the electrical system for a permanent pump station prior to finalizing the design and issuing the bid documents as required without delaying the start of the project.

Since FK Engineering and their sub-consultants do not have the ability to provide the electrical design for the permanent pump station a short list of local, experienced, and competent consultants was developed. The FK Engineering team assisted MCPWO personnel in the development of a Request for Proposal for the electrical design component of the CS-12 Pump Station. Proposals were solicited from four consultants: Fishbeck, Metco, Tetra Tech and Wade Trim. Our office on behalf on several drainage districts has worked with the electrical design engineers at each of these firms, each of them are professionally qualified to provide the defined scope of services.

Each of the four consultants submitted proposals for our review and consideration. Since the consultants were pre-qualified, we did not score the technical proposals. Instead, we reviewed to verify the scope and cost were in alignment. The table below summarizes the cost submitted by each consultant. Also, FK Engineering provided a bid comparison memo which is attached for reference. The low bidder, Fishbeck, has been selected to provide the electrical design services, their proposal is attached for reference. Since FK Engineering is the lead design consultant, they will execute a sub-consultant agreement with Fishbeck to manage and coordinate this work. The total add to the contract is \$70,140.00 which includes the allowable 5% markup to FK Engineering.

	Fishbeck	Metco	Tetra Tech	Wade trim
Design Cost	\$66,800	\$70,545	\$72,969	\$242,655

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

The recommendation is that the Macomb Interceptor Drain Drainage District Board approve Change Order No. 3 for FK Engineering to provide Electrical Design Services for the CS-12 Access Shaft and Dewatering Pump Station for the not to exceed amount of \$70,140.00.

Attachments: FK Engineering Bid Comparison Memo
Fishbeck CS-12 Proposal
FKE Change Order No. 3

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

Date of Issuance: 12/1/2020
Owner: Macomb Interceptor Drainage
Drainage District
Engineer: FK Engineering

Effective Date: 12/15/2020
Owner's Contract No.: WWS-2019-013
Engineer Contract No.: N/A
Contract Name: Segment 5 Lining

The Contract is modified as follows upon execution of this Change Order:

Add \$71,140 to the existing contract to provide Electrical Engineering Design Services for the CS-12 pump station portion of the rehabilitation of Segment 5 in accordance with the Fisbeck proposal dated October 28, 2020. The proposals are attached for reference. This includes the allowable 5% markup for FK Engineering.

The original Contract Sum was:	<u>\$ 498,881.50</u>
The net change from previously approved Change Orders No.1 to No. 2:	<u>\$ 2,635,225.00</u>
The Contract Sum prior to this Change Order:	<u>\$ 3,134,106.50</u>
The Contract Sum prior to this Change Order will be increased by:	<u>\$ 70,140.00</u>
The new Contract Sum, including this Change Order, will be:	<u>\$ 3,200,906.50</u>
The Contract Time will be unchanged by:	0 (days)
The date of Substantial Completion as of the date of this Change Order, therefore, is: N/A	

ACCEPTED:	ACCEPTED:
By: _____	By: _____
Owner (Authorized Signature)	Engineer (Authorized Signature)
Title _____	Title _____
Date _____	Date _____



Memorandum

TO: Stephen Downing, Keith Lumma - MCPWO

DATE: November 30, 2020

FROM: Tasha Cook, Zachary Carr, P.E.

FKE PROJ. NO: 20-152

SUBJECT: MIDDD Segment 5 Rehabilitation
Control Structure No. 12 – Electrical Engineering
Bid Comparison Memorandum

The following memorandum presents FK Engineering's (FKE) comparison and general assessment of the proposals received for the electrical design related to the proposed CS-12 structure. The request for bid was emailed by Mr. Downing on October 8, 2020 and all bids were received on October 28, 2020 in accordance with the attached RFP. Four electrical engineering consultants were prequalified to prepare bids for this project, including:

- Tetra Tech
- METCO Services, Inc
- Fishbeck
- Wade Trim Associates, Inc.

The selected electrical consultant will design the electrical components/system to provide permanent power to CS-12 which is currently in construction. The RFP was issued with the Romeo Arm Interceptor Segment Lining Issued for Construction drawings and specifications dated September 21, 2020. The following sections provide our assessment of the responses separated in the RFP categories as follows:

- Submission Procedures
- Technical Proposal Requirements
- Cost Proposal Requirements
- Required Forms
- Assessment/Recommendation

Submission Procedures

All proposers provided 3 hard copies of their Technical Proposal and Cost Proposal under separate cover in accordance with the RFP requirements. All proposals were received ahead of the deadline dates and time (October 28, 2020 at 10:00am).

Technical Proposal Requirements

The Technical Proposal required a Letter of Introduction, Company’s Experience and Qualifications, Organization Chart, Work Plan, and list of assumptions. The following table summarizes the responsiveness of each firm to these requirements.

Table 1 - Technical Proposal Requirements				
	Tetra Tech	METCO Services, Inc.	Fishbeck	Wade Trim Associates, Inc.
Letter of Introduction	✓	✓	✓	✓
Experience/Qualifications	✓	✓	✓	✓ ¹
Organizational Chart	✓	✓ ²	✓	✓
Work Plan	✓	✓	✓	✓
Assumptions	✓	✓	✓	✓

- 1) *Includes projects completed more than 5 years ago.*
- 2) *Does not include resumes for defined role personnel.*

All firms appear to have met the requirements for the Technical Proposal submission. The listed assumptions should be further reviewed by the County as specific electrical parameters are listed that may need further varication by qualified electrical personnel.

Cost Proposal Requirements

The Cost Proposal required a comprehensive cost matrix with hourly rates separated by classification, schedule, and the Cost Form. The following table summarizes the responsiveness of each firm to these requirements and includes the proposed bid amounts.

Table 2 - Cost Proposal				
	Tetra Tech	METCO Services, Inc.	Fishbeck	Wade Trim Associates, Inc.
Cost				
Proposal Form	✓	✓	✓	✓
Hourly Rate Table	✓	✓	✓	✓
Total Hours for Key Personnel	✓	✓	✓	✓
Schedule	✓	✓	✓	✓
Work Durations for Each Task	✓	✓	✓	✓
Proceed Date Noted (11/9/20)	✓ ¹	✓	✓	✓
TOTAL COST	\$72,969	\$70,545	\$66,800	\$242,655

1) Indicates a project duration but does not specify a start date. Technical proposal states that Tetra Tech will get a NTP within 3 months of proposal submittal.

Total worker hours estimated per proposal are:

- Tetra Tech: 504 hours (average hourly rate \$145)
- METCO Services, Inc: 437 hours (does not include Const. Admin hours)
(average hourly rate \$161)
- Fishbeck: 458 hours (average hourly rate \$146)
- Wade Trim Associates, Inc.: 1,214 hours (average hourly rate \$200)

All firms appear to have met the requirements for the Cost Proposal submission. However, Metco did not include hours related to Construction Contract Administration.

Required Forms

Table 3 – Required Forms				
	Tetra Tech	METCO Services, Inc.	Fishbeck	Wade Trim Associates, Inc.
Owner Engineer Disclosure Form	✓	✓	✓	✓
Non-Collusion Affidavit	✓	✓	✓	✓
General Information	✓	✓	✓	✓
Certification of Compliance Iran Economic Sanctions Act	✓	✓	✓	✓
Federal E-Verify Program	✓	✓	✓	✓
Vendor Certification Debarment	✓	✓	✓	✓

All firms have provided the required Forms per the RFP.

Assessment/Recommendation

In general, all prequalified consultants met the requirements as presented in the RFP. We provide an individual firm summary below followed by our recommendation for award.

Tetra Tech

- Satisfied the Technical Proposal requirements.
- Satisfied the Cost Proposal requirements.
- 3rd highest bidder with lowest average hourly rate.
- Project experience is relevant to the intended project for CS-12.
- Proposal indicates understanding of the overall project.
- All required forms provided.

METCO Services, Inc.

- Satisfied the Technical Proposal requirements. Organization Chart did not include resumes of intended staff members for this project.
- Satisfied the Cost Proposal requirements, however Metco did not provide CCA hours.
- 2nd highest bidder with second highest average hourly rate.
- Project experience is relevant to the intended project for CS-12, however experience presented was for improvements and not new installations.
- Proposal indicates understanding of the overall project.
- All required forms provided.

Fishbeck

- Satisfied the Technical Proposal requirements.
- Satisfied the Cost Proposal requirements.
- Lowest bidder with 2nd lowest average hourly rate.
- Project experience is relevant to the intended project for CS-12 including new electrical design and install along with improvement projects.
- Proposal indicates understanding of the overall project.
- All required forms provided.

Wade Trim Associates, Inc.

- Satisfied the Technical Proposal requirements.
- Satisfied the Cost Proposal requirements.
- Highest bidder with highest average hourly rate. Bid is 263% higher than the lowest bid.
- Project experience is relevant to the intended project for CS-12 though included some projects more than 5 years old.
- Proposal indicates understanding of the overall project.
- All required forms provided.

Considering the pre-qualified basis that this RFP was issued and performing a comparison of the categories as presented in the memorandum, we recommend that the lowest bidder, Fishbeck be awarded the Contract of the electrical design work for CS-12. This recommendation is predicated on technical review of the electrical-related assumptions as discussed herein.

**MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
REQUEST FOR PROPOSAL**

PROPOSAL TITLE: Segment 5 Rehabilitation – Control Structure No. 12 Electrical Engineering

The Macomb Interceptor Drain Drainage District (“OWNER”) is soliciting sealed proposals (“Proposals”) for electrical design services as described in the following Request for Proposal (RFP).

The OWNER is seeking Proposals from qualified electrical engineering consultants (“CONSULTANT”) to perform electrical design services on its behalf for the proposed Control Structure No.12 (CS-12). The OWNER will select the most qualified CONSULTANT to perform the Scope of Work as discussed herein.

All Proposals shall be submitted in strict conformance with the instructions and procedures outlined in this RFP and the requirements and deadlines herein set forth.

SUBMISSION PROCEDURES

Date Due: October 28, 2020 at 10:00AM EST

NO LATE PROPOSALS WILL BE ACCEPTED.

Deliver: FK Engineering Associates
30425 Stephenson Hwy.
Madison Heights, MI Via FedEx, UPS or hand delivery.

Return: One (1) hard copy original. Two (2) hard copies
One (1) unencrypted electronic copy on a USB flash drive.
See the Proposal Format below.

All Proposals must be submitted with all materials requested, on the forms provided, properly executed, and with all items filled out in ink or typed. Do not change or add words to the forms. Unauthorized modifications, added conditions, limitations, or provisions on or attached to the forms may be deemed nonresponsive and cause for rejection of the Proposal. Any Proposer information that is altered by erasure or by interlineation prior to submittal must be initialed and explained by notation above the signature of the Proposer.

PRE-PROPOSAL QUESTIONS

Due: The deadline for pre-Proposal questions is October 21, 2020 at 12:00PM EST.
Submit to: Email to: MCPWoprojectinfo@macombgov.org

Questions regarding the RFP may be directed in writing only, by email. All questions or clarifications must be directed to the OWNER.

PROCUREMENT SCHEDULE

The procurement schedule is summarized in the table below:

Activity	Date
Advertise to Firms	10/8/20
Proposer questions due	10/21/20
Proposals due	10/28/20
Oral interviews (if required)	10/30/20
Notice to Proceed	11/9/20

PROPOSER’S QUALIFICATIONS

Proposers must be properly licensed by the State of Michigan. Proposers shall meet qualifications indicated in the RFP Documents. The OWNER may make such investigations as necessary to determine the ability of the Proposer to perform the Work, and the Proposer shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any Proposal if the evidence submitted by, or investigation of, such Proposer fails to satisfy the OWNER that such Proposer is properly qualified to carry out the obligations of the Contract.

ERRORS, OMISSIONS, AND/OR DISCREPANCIES

The OWNER will not be liable for any errors and/or omissions in Proposals. The OWNER reserves the right to make corrections or amendments due to errors identified in the RFP Documents by the OWNER or the Proposer. The OWNER, at its option, has the right to request clarification or additional information from the Proposers.

TERMINATION

The OWNER reserves the right to terminate any award to the Proposer, with or without cause, by written notice, without liability of any kind to the OWNER.

RIGHT TO REJECT

The OWNER reserves the right to reject any or all Proposals in whole or in part and to waive any informalities therein or accept any Proposal it may deem in OWNER’s best interest.

MODIFICATION AND WITHDRAWAL OF PROPOSALS

A Proposal may be withdrawn upon submission of a written request by Proposer to OWNER prior to submission time. A withdrawn Proposal may be re-submitted up to submission deadline. Negligence or error on the part of the Proposer in preparing his/her Proposal confers no right for withdrawal of the Proposal after it has been opened.

OFFER PERIOD

Proposals will remain firm for a period of 120 days after official opening of Proposals.

EXECUTION OF CONTRACT

The Proposer who is awarded the Work shall be required to enter a sub-consultant agreement with the lead consultant, FK Engineering Associates. The complete Scope of Work is included in the RFP

SALES AND EXCISE TAXES

The OWNER, being a governmental unit, is exempt from sales and federal excise taxes. The price is to be net, exclusive of any taxes. All prices stated in the Proposal response will include all Federal, State, County and Municipal taxes, including Michigan State Sales and Use Taxes, or contributions required by Proposer's business.

PROPOSAL FORMAT

All Proposals shall be divided into the following sections, include the information requested and submitted in the format set forth here.

1. Technical Proposal

- a. Letter of Introduction – Provide a maximum two-page letter of introduction, briefly discussing the firm's background and capabilities as they relate to the design and engineering services required to complete the Scope of Work described in this solicitation.
- b. Company's Experience and Qualifications – Provide descriptions of the firm's capabilities and experience in performing the engineering services noted in the Letter of Introduction. Please list specific municipal projects worked on and/or completed within the last five years where similar services were provided. For each project, include the following information: Project Description, Project Dates, Project Cost, and the names and titles of individuals currently employed with your firm who were assigned to the project and the role they performed. Provide at least one reference with contact information for each project described. Please limit the statement of qualifications to five pages.
- c. Organizational Chart – Provide an organizational chart for the proposed project team indicating roles and responsibilities of each team member.
- d. Work Plan – Submit a work plan describing in detail on how the company(s) will plan on completing the various tasks as specified in the Scope of Work. The work plan shall include a summary of tasks to be completed. The work plan should detail how each task will be accomplished. No cost or staffing hours information shall be included in the work plan.
- e. Assumptions – Submit all assumptions made in developing the proposal.

2. Cost Proposal

- a. Cost – Please provide a comprehensive matrix with hourly rates for each of the applicable staff classifications required to complete the described Scope of Work. Hourly rates should include overhead and profit, if applicable. Include markup charges for sub-consultants and subcontractors in the cost proposal. The matrix shall include the total hours and percentage of time of each proposed key personnel. Each major task should be sub-totaled for hours and cost. The Proposal form provided herein shall be used as the first page of the cost section of the Proposal. The firm may use their own format for all other cost related information and backup. The Work shall be subject to a Not-to-Exceed (NTE) Price, as set forth in the Contract. The proposer shall include a detailed cost estimate for the design components as identified in the RFP. An hourly rate table shall be provided for construction contract administration.
- b. Schedule – Submit a schedule based on the Proposer's work plan. The schedule should outline work durations for each of the major tasks as shown in the Scope of Work section of the RFP. The proposer shall assume an authorization to proceed date of November 9, 2020 and be prepared to start the work immediately.
- c. Required Cost Form – Please include the following form in this section.

SUBMISSION PROCEDURES

The Proposals shall be submitted in two (2) separate sealed envelopes. The first envelope shall clearly be labeled on the outside of the envelope with the words "TECHNICAL PROPOSAL" and the Proposal Number. The Technical Proposal will include Items 1a through 1e, and all required forms. The second envelope should include the words "COST PROPOSAL" and the Proposal Number. The Cost Proposal will include Items 2a through 2c. Include a rate sheet for Final Design, Bidding, and Construction Administration Services within the Cost Proposal envelope.

CONSULTANT SELECTION AND AWARD CRITERIA

- A. To be considered, Proposers must specialize or demonstrate their capability to perform all required tasks associated with the items listed in the Scope of Work.
- B. Selection will be based on multiple components, including without limitation, experience, key personnel qualifications, knowledge of the system, and cost, and will be in the sole discretion of the OWNER.
- C. At the discretion of the OWNER, Proposers may be invited to a pre-award interview conducted by the evaluation team to review and verify information contained in their Proposal and to confirm the firm's complete understanding of the Scope of Work and the costs associated with their work.

SCOPE OF WORK

Project Overview

The MIDDD is planning to enter an agreement with the selected CONSULTANT to design the electrical components/system to provide permanent power supplied to CS-12 as shown in the attached Issued For Bid MIDDD Romeo Arm Interceptor Segment Lining (drawings and specifications) dated April 21, 2020.

Background

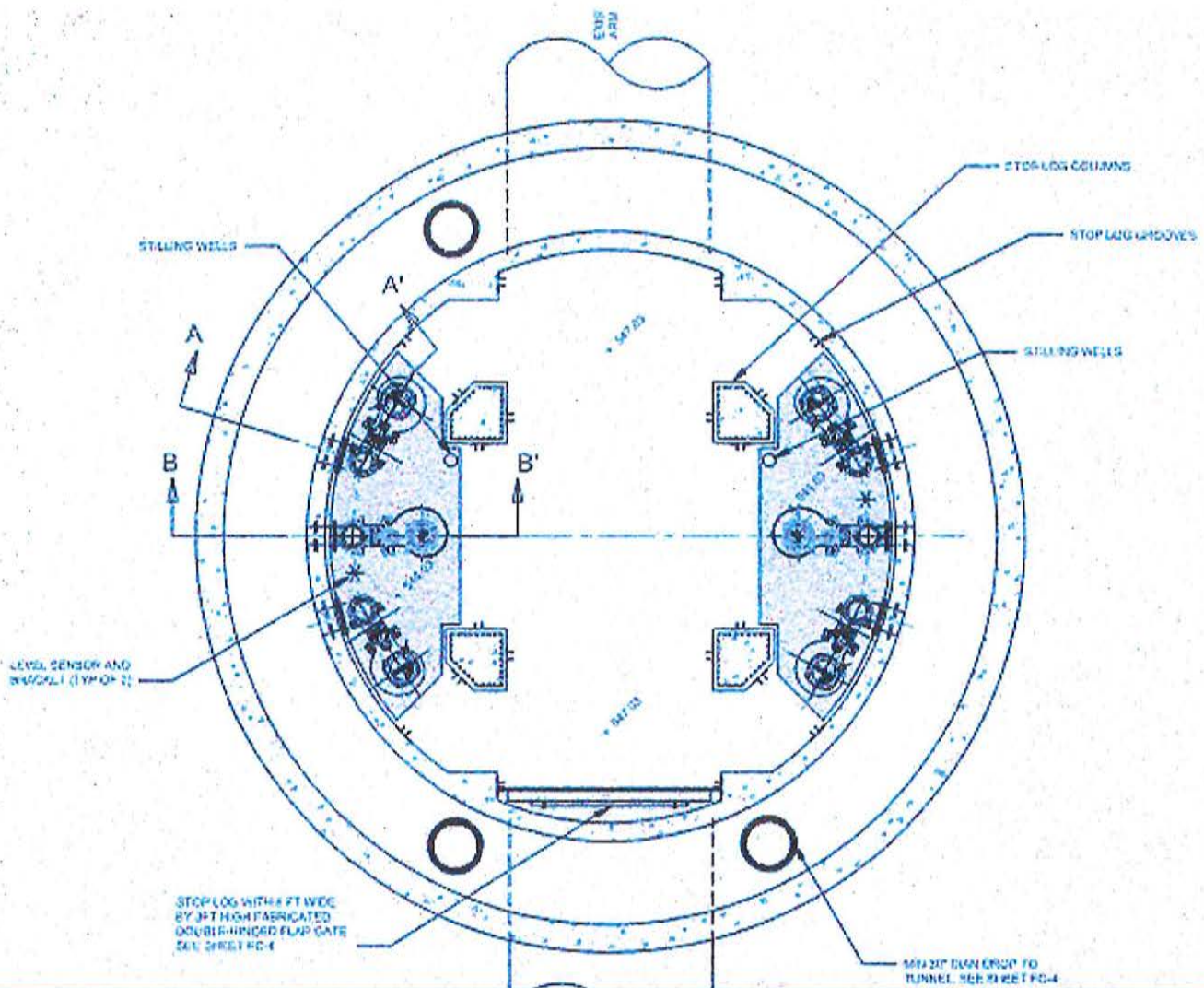
The MIDDD contracted with FK Engineering (FKE) to provide engineering design services for the rehabilitation of the Romeo Arm Interceptor (PCI-12A) generally between Hayes Road and the ITC Corridor (west of Schoenherr Avenue) along 15 Mile Road. Results of the design call for a new control structure to be located at the ITC-Corridor just upstream of PCI-7 denoted as CS-12. CS-12 includes the installation of a series of bypass pumps that will be integrated into MIDDD's SCADA and Flow Control system. The CONSULTANT will be responsible to develop the detailed design and construction documents for the Electrical and I&C related items of work including but not necessarily limited to the following improvements listed below:

- Meetings with OWNER and Segment 5 Rehabilitation Contractor and Engineer.
- Coordination with ITC representatives for associated work and any above grade permanent facilities (i.e., electrical panels).
- Provide permanent power for the Six pumps as shown on Drawing No. FC-1 and detailed in the Specifications. Pump details are provided in the drawing. The electrical design will be completed with necessary design drawings and related technical specifications. Refer to the submittal milestones noted in the following section of this RFP.
- Provide miscellaneous power and lighting panels as required. , including related design drawings and specifications.
- All Instrumentation and control system required for remote and local monitoring and controls associated with Pump and Power distribution system and to interface with the station existing Wonderware SCADA system

- Coordinate with the MIDDD's SCADA and Flow Control Managers for proper integration into the overall established SCADA and Flow Control System. SCADA integration will be provided by others, but coordination will be required, as necessary.
- All permits necessary to facilitate the permanent power supply to CS-12 to operate the bypass pumping system as shown in the noted Project Drawings and Specifications (Segment 5 Lining).

Work elements include the following Tasks/Deliverables:

1. Prepare General Layout Drawings and Conduct Review Workshop - General layout drawings for the electrical work will be prepared including plans, profiles, and cross-sections for MIDDD review and comment. OSHA and MIOSHA requirements for access and safety will be considered in the general layout of the improvements. Design calculations will be prepared and submitted for review. All data will be reviewed with interested parties in a workshop.
2. Submit Preliminary Construction Documents (70% Completion) - Contract documents in the following disciplines will be prepared to a 70% completion level: electrical (power, transformers, starters); and I&C (compatible with existing SCADA). Specifications will be developed with MIDDD frontend and new technical specification specific for this project. An estimate of the probable construction cost will be prepared at the 70% completion level. The contract document package will only be submitted to MIDDD at this stage.
3. QA/QC Workshop (70% Completion) - MIDDD will meet to review comments of the preliminary contract documents. A list of revisions needed for the contract documents will be prepared.
4. Submit Pre-Final Contract Documents (95% Completion) - Contract documents will be prepared to a 95% level of completion. The contract documents will incorporate revisions identified in Task 3. An estimate of the probable construction cost will be prepared along with a proposed sequence of construction and a construction phase schedule. The contract document package will be submitted to the MIDDD team for review.
5. Submit Final Contract Documents (100% Completion) - Contract documents will be prepared to a 100% level of completion. The contract documents will be complete for construction and will incorporate revisions identified in Task 5. The drawings will be sealed by Professional Engineers as applicable. An estimate of the probable construction cost will be updated along with a proposed sequence of construction and a construction phase schedule.
6. Construction Contract Administration - This task includes preparation for and attendance at regularly scheduled progress meetings throughout the construction phase. Review of project submittals will be completed under this task. Observation during the construction process including preparation of daily field reports is also under this task.



COST PROPOSAL FOR: MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDDD)

SEGMENT 5 REHABILITATION
CONTROL STRUCTURE NO. 12 ELECTRICAL ENGINEERING
OCTOBER 30, 2020

PROPOSAL FORM

Proposal No. _____ Proposer: Fishbeck
(print or type company name)

BASE PROPOSAL


The undersigned Proposer, having carefully examined the Proposal Documents and the Scope of Work, the requirements of the Request for Proposal and all subsequent Addenda, all as issued by the Owner, and being familiar with all conditions and requirements of the Scope of Work, hereby proposes and agrees to furnish all material, labor, equipment, tools and supervision; and to furnish all services necessary to complete the Work required in accordance with the Bidding Documents for the following projects, in the following amount:

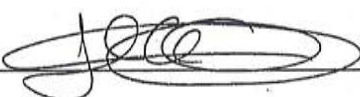
Sixty-Six Thousand Eight Hundred Dollars \$ 66,800
(Sum to be written out)

Respectfully submitted this 28 day of October, 2020

By: Fishbeck
(Name of bidding firm or corporation)

Witness:

By: 
(Signature)

Attest: 
(Signature)

Maria Sedki, PE
(Type or print name)

By: John Condie, PE
(Type or print name)

Title: Vice President
(Owner/Partner/President/Vice Pres.)

Title: Corporate Secretary

Address: 45200 Card Road, Suite 128
Macomb Township, MI 48044

(Corporate Secretary or Assistant Secretary Only)

Phone: 616.464.3847

License: _____

Federal ID No.: 38-1841857

Fishbeck

Company Name

John Condie, PE

Company Representative

(Affix Corporate Seal Here)



Principal/Senior Vice President

Title

October 27, 2020

Date

COST PROPOSAL

This section includes a comprehensive matrix of the work plan tasks and level of effort (hours) the assigned staff will provide for each task during the Design and Construction Administration phases. Hourly rates include overhead and profit. Fishbeck does not anticipate needing to charge for any expenses on this project. Hours for each staff classification are subtotaled by phase along with the percentage of time each classification is assigned to this project.

Costs are also subtotaled by staff classification. Hours and costs are totaled for each phase at the end.

An hourly rate schedule for professional services is also included in this section.

DESIGN PHASE

TASK NAME	PROJECT MANAGER	SENIOR ELECTRICAL ENGINEER	MASTER ELECTRICIAN	GRAPHICS SUPPORT	ADMIN. SUPPORT
Kickoff Meeting	2	2			2
Field Investigations		2	4		
Review Existing Drawings		2			
Preliminary Calculations		2			
Utility Company Coordination		2			
SCADA and Flow Control Manager Coordination	2	2			
General Layout Deliverable Development	2	16	2	12	4
General Layout Workshop	2				2
70% Complete Deliverable Development	2	24	2	12	12
70% Complete Workshop	2				2
95% Complete Deliverable Development	2	16		8	8
95% Complete Workshop	2				2
Plans Submitted to LARA	2				2
100% Final Deliverable Development	2	8		8	2
Bulletin Issued for Pricing	2	2			2
Bulletin Pricing Review and Change Order Approval	2	2			2
Subtotal Hours	24	80	8	40	40
Percentage of Time	13%	42%	4%	21%	21%
Hourly Rate (\$/hour)	175	175	160	110	74
Cost Subtotals	\$4,200	\$14,000	\$1,280	\$4,400	\$2,960
Total Cost					\$26,840
Total Hours					192

CONSTRUCTION ADMINISTRATION PHASE

TASK NAME	PROJECT MANAGER	SENIOR ELECTRICAL ENGINEER	MASTER ELECTRICIAN	GRAPHICS SUPPORT	ADMIN. SUPPORT
Pre-Construction Meeting	2		2		2
Monthly Progress Meetings	24				4
Submittal Review		24			8
Respond to RFIs		2	2		2
Process Bulletins and Change Orders	2	2	2		2
Periodic Site Visits			160		20
Substantial Completion			4		2
Subtotal Hours	28	28	170	0	40
Percentage of Time	11%	11%	64%	0%	15%
Hourly Rate (\$/hour)	175	175	160	110	74
Cost Subtotals	\$4,900	\$4,900	\$27,200	\$0	\$2,960
Total Cost					\$39,960
Total Hours					266

HOURLY RATE SCHEDULE FOR PROFESSIONAL SERVICES

CATEGORY	ROLE	RATE
Project Management	Project Manager	\$175
	Senior Engineer	\$175
Engineering (Civil, Mechanical, Electrical, Structural, Process)	Engineer	\$136
	Staff Engineer	\$116
	Senior Technician	\$120
Inspection	Technician	\$99
	Staff Technician	\$77
	Senior Surveyor	\$136
Surveying	Surveyor	\$120
	Survey Specialist	\$110
GIS Mapping/CADD	Senior Technician	\$143
	Technician	\$110
	Staff Technician	\$93
Environmental Scientist	Senior Environmental Specialist	\$165
	Environmental Specialist	\$120
	Staff Environmental Specialist	\$99
Specialist	Senior Engineering Specialist	\$160
	Senior Estimator	\$171
Architecture	Senior Architect	\$175
	Architect	\$136
	Staff Architect	\$116
Administrative	Principal	\$218
	Clerical/Production Support	\$74

Invoices will be submitted every four weeks and payment is due upon receipt.

SCHEDULE

The schedule presented in this section assumes that a notice to proceed will be provided on or about November 9, 2020. We understand the contractor's current schedule identifies CS-12 being online and operable in March 2022. We do not anticipate any of the electrical equipment having long lead times for submittal preparation, fabrication, or delivery. We have allowed six months for design and ten months for construction. Exact timeframes will be coordinated with the contractor, pump supplier, and others, and can be adjusted as the project progresses.

A kickoff meeting will occur first. Field investigations, review of existing drawings, preparation of preliminary calculations, coordination with the local utility company, and development of general layout drawings will follow over the first two months. Detailed design will proceed with milestone deliverables at 70%, 95%, and 100% completion levels. Each deliverable will be submitted to the Owner for review and a workshop scheduled to discuss comments and questions. A minimum of one week will be provided for the Owner to review each milestone deliverable.

Drawings and specifications will be issued to the contractor as part of a bulletin (to solicit pricing to be included as part of a change order). We allowed three weeks for pricing by the contractor and one week to process the change order.

Construction will start with a pre-construction meeting. Fishbeck will review submittals, respond to questions and requests for information (RFIs) from the contractor, and process bulletins and change orders for the electrical work associated with CS-12. We will attend monthly progress meetings and make periodic site visits to observe construction activities and progress. These activities will occur over the 10-month period of construction. When the contractor requests substantial completion, we will make a site visit to observe the installed equipment, systems, and materials and generate a punch list.

Segment 5 Rehabilitation - Control Structure No. 12 Electrical Engineering

ID	Task Name	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	
1	Design																		
2	Kickoff Meeting	■																	
3	Field Investigations	■																	
4	Review Existing Drawings	■																	
5	Preliminary Calculations	■																	
6	Utility Company Coordination	■																	
7	SCADA and Flow Control Manager Coordination	■																	
8	General Layout Deliverable Development	■																	
9	General Layout Workshop			■															
10	70% Complete Deliverable Development			■															
11	70% Complete Workshop			■															
12	95% Complete Deliverable Development			■															
14	Plans Submitted to LARA								■										
13	95% Complete Workshop								■										
15	100% Final Deliverable Development								■										
16	Bulletin Issued for Pricing								■										
17	Bulletin Pricing Review and Change Order Approval								■										
18	Construction																		
19	Pre-Construction Meeting																		
20	Monthly Progress Meetings																		
21	Submittal Review																		
22	Respond to RFIs																		
23	Process Bulletins and Change Orders																		
24	Periodic Site Visits																		
25	Substantial Completion																		■

MACOMB INTERCEPTOR DRAIN 11/17/20 - 12/1/20

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
Macomb Interceptor Drain Administration	Chapter 20	Astorno	ADS Environmental Services	\$ 11,220.00	Invoice #55414-0920A - 10.24.20	Meter Maintenance - 9.1.20 - 9.30.20	\$ 399,550.00
	Chesterfield - 7.2499%	Astorno	ADS Environmental Services	\$ 540.00	Invoice #55414-0920B - 10.24.20	Meter Maintenance - As-Needed	\$ 46,377.50
	Clinton - 21.2506%	Baker	Aloia & Associates, P.C.	\$ 617.50	Invoice #20788 - 10.1.20	Sale of 45345 Garfield Road	
	Fraser - 4.0512%	Downing	Anderson, Eckstein & Westrick	\$ 4,397.45	Invoice #128378 - 11.2.20	Dropshaft & Connecting Sewer Rehab - 9.28.20 -	\$ 109,991.00
	Harrison - 6.4207%	Downing	Anderson, Eckstein & Westrick	\$ 13,588.85	Invoice #128381 - 11.2.20	Engineering Overtime - Phase 2 Grouting	
	Lenox - 1.0638%	Astorno	City of Mt. Clemens	\$ 17,452.31	Invoice #28001790 - 10.26.20	Sewage Flow Billing - September 2020	\$ 255,375.80
	Macomb - 13.9606%	Astorno	Colville Electric Co., LLC	\$ 511.88	Invoice #200620 - 11.2.20	Install Power Supply (COVID State Funds)	
	New Haven - .8226%	Astorno	Department of Roads	\$ 598.83	Invoice #301711 - 11.9.20	Fuel through 10.31.20	
	Shelby - 9.9057%	Astorno	Department of Roads	\$ 581.26	Invoice #301690 - 10.14.20	Fuel through 9.30.20	
	String Heights - 30.9081%	Astorno	DTE Energy	\$ 545.13	Invoice #WX9CJ-92QJ0 - 10.31.20	Monthly Electric - 10.1.20 - 10.31.20	
	Utica - 1.5918%	Astorno	DTE Energy	\$ 1,022.02	Invoice #QXZB8-DTTQV - 11.2.20	Monthly Electric - 10.1.20 - 10.30.20	
	Washington - 2.7751%	Astorno	DTN, LLC	\$ 762.00	Invoice #5836353 - 10.23.20	Storm Entry - 11.15.20 - 2.14.21	
		Astorno	Fishbeck	\$ 2,672.50	Invoice #396182 - 11.4.20	Wastewater Master Plan through 10.30.20	\$ 473,782.39
		Astorno	Fishbeck	\$ 1,575.00	Invoice #396155 - 11.4.20	GLWA Assistance	\$ 24,589.37
		Astorno	Fishbeck	\$ 2,214.00	Invoice #396161 - 11.4.20	As-needed Engineering - Odor/Corrosion RFP	\$ 84,821.88
		Astorno	FK Engineering Associates	\$ 6,898.00	Invoice #17-134-025 - 11.13.20	Segment 5 Grouting	
		Astorno	HESCO	\$ 10,500.00	Invoice #20201513 - 11.3.20	Monthly Lease Sampler Equipment (COVID Funds)	
		Astorno	Hubbell, Roth & Clark, Inc.	\$ 28,886.72	Invoice #183342 - 11.10.20	SY-S-1 and SY-S-2 Meter Rehab/Washington Twp	\$ 126,039.52
		Downing	Inland Waters	\$ 226,777.50	Invoice #WO18331 Est 2 - 10.31.20	Drop Shaft and Connecting Sewer Rehab	\$ 419,000.00
		Downing	Inland Waters	\$ 148,770.00	Invoice #WO18330 Est 3 - 11.24.20	Dropshaft & Connecting Sewer Rehab	\$ 805,417.35
	Downing	Inland Waters	\$ 200,250.00	Invoice #WO18331 Est 3 - 11.30.20	Dropshaft & Connecting Sewer Rehab	\$ 196,500.00	
	Astorno	Jack Doehny Companies Inc.	\$ 2,930.69	Invoice #109444 - 11.5.20	CSE Equipment		
	Astorno	KHVPP, PLC	\$ 8,124.00	Invoice #45637 - 11.1.20	General Matters October 2020		
	Astorno	METCO Consulting Services	\$ 6,537.08	Invoice #1717-17 - 11.2.20	Flow Control Services through 10.31.20		
	Sucharski	Verizon	\$ 652.32	Invoice #9865579741 - 11.15.20	Monthly Ceil - 9.24.20 - 10.23.20		
	Sucharski	Verizon	\$ 1,085.34	Invoice #9865579741 - 11.15.20	Monthly Ceil - 9.24.20 - 10.23.20 (Equipment Fund)		

Budget to Actual
MIDD
As of Nov 30, 2020 = 42%

DESCRIPTION	2021 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	47,262,993		19,695,896	27,567,097	41.7%
OMID O&M	3,828,987		1,595,411	2,233,576	41.7%
Settlement	100,000		12,500,000	(12,400,000)	12500.0%
Reimbursements	225,000		101,846	123,154	45.3%
PY Revenue-Fund Balance	8,388,627			8,388,627	0.0%
Washington Twp Meter Project	47,475			47,475	0.0%
Reimb-Local Communities	13,548,089		5,645,037	7,903,052	41.7%
Interest	250,000		22,851	227,149	9.1%
<i>Total Revenue Accounts</i>	73,651,171		39,561,041	34,090,130	53.7%
EXPENSE ACCOUNTS					
GLWA-OMID	47,262,993		19,695,896	27,567,097	41.7%
OMID O&M	3,828,987		1,595,411	2,233,576	41.7%
Public Works Wastewater Disposal Division	1,942,127		306,780	1,635,347	15.8%
Office Operations/Insurance	309,925		48,976	260,949	15.8%
SCADA	268,889		19,738	249,151	7.3%
Engineering					
Meter Dye Testing 2 year contract new this year	100,000		25,300	74,700	25.3%
Data Review-Aquasight	250,000		30,995	219,005	12.4%
Replenish reserve from CPS refunding	618,680			618,680	0.0%
Design Odor and Corrosion	750,000		3,420	746,580	0.5%
Construction Project for Odor and Control	1,000,000			1,000,000	0.0%
SY-S-1, SY-S-2, WA-S-1 Construction Admin	250,000		28,887	221,113	11.6%
FKE Rehab analysis phase 2	84,000		14,000	70,000	16.7%
Seg 5 Construction	1,150,000		131,548	1,018,452	11.4%
Phase II Grouting	3,825,000		1,196,625	2,628,375	31.3%
GLWA Assistance	40,000		3,000	37,000	7.5%
Drop Shaft			256,372	(256,372)	100.0%
As Needed FTCH	75,000		2,580	72,420	3.4%
As Needed FK Engineering	75,000			75,000	0.0%
As Needed Wade Trim	75,000		104	74,896	0.1%
As Needed Metco	125,000		8,032	116,968	6.4%
As Needed Applied Science	25,000			25,000	0.0%
As Needed Odor and Corrosion	75,000			75,000	0.0%
Seg 5 Engineering Design	374,557		111,054	263,503	29.6%
Contribution to Segment 5/Grouting	1,450,000		717,270	732,730	49.5%
15 Mile Inter Design East of Garfield (Segment 6)/Const Admin	1,600,000		207,136	1,292,864	13.8%
SY-S-1 & SY-S-2 Meter Design/Rehab	1,134,070			1,134,070	0.0%
Level Sensors/Pressure/H2S-Meters	250,000			250,000	0.0%
Wastewater Master Plan/Contract Capacity	400,000		25,783	374,217	6.4%
EGLE Testing Grant			93,304	(93,304)	0.0%
Washington Township meter	500,000			500,000	0.0%
Legal Services	250,000		9,337	240,663	3.7%
Clintondale PS O&M	639,500		116,546	522,954	18.2%
NGI O&M	230,000		47,558	182,442	20.7%
Meters O&M	253,470		104,597	148,873	41.3%
CS-3 O&M	226,000			226,000	0.0%
Biofilter O&M	22,500		8,671	13,829	38.5%
Contribution Life Cycle Reserve	171,700			171,700	0.0%
Interceptor O&M	1,900,000		7,715	1,892,285	0.4%
Stormwater Pump Stations	234,250		97,604	136,646	41.7%
Sewage Disposal Charges - Mt. Clemens	200,000		47,102	152,898	23.6%
Debt Service - Revenue Bonds	1,784,523		743,551	1,040,972	41.7%
<i>Total Expense Accounts</i>	73,651,171		25,704,893	47,946,278	34.9%

	O&M Balance 6/30/2020	O&M	Total 11/30/2020
Cash - Operating	24,226,346	13,856,148	38,082,494
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		39,561,041	39,561,041
Expenditures		25,704,893	25,704,893
			0
Equity*	24,226,346		38,082,494

Detail of 2020 Equity*

Projected reserve at 6/30/2020	6,818,887
Projected Engineering Reserve	12,920,000
Projected Sinkhole Surplus	3,656,059
Life Cycle Reserve	831,400