

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
JANUARY 10, 2022
10:15 A.M.
AGENDA

**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION**

**Call in Number: 1-601-680-7136
Access Code: 389 771 779**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for January 10, 2022	
3. Approval of Minutes for December 13, 2021	3
4. Public Participation	
5. Project Updates – Vincent Astorino	6
6. In-System Storage Construction Contract Administration – Vince Astorino	8
Motion: To approve the construction contract administration proposal and enter an agreement with Tetra Tech for amount of \$1,024,974 for the In-System Storage project.	
7. Chapaton Canal Rehabilitation Design Recommendation – Vince Astorino	12
Motion: To approve the design proposal and establish an engineering work order to Wade Trim on their existing contract for the not to exceed amount of \$99,812 for the Canal Rehabilitation Project.	
8. Consideration for approval of invoices (see attached)	18
9. Financial Report – Bruce Manning	33
10. Adjourn	

An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan, and virtually per the State Public Act 254 of 2020, on December 13, 2021, at 10:11 A.M.

PRESENT: Brian Baker, Acting Chair

 Veronica Klinefelt, Member

 Bryan Santo, Member

ALSO PRESENT: Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Norb Franz, Communications Manager, Dan Acciavatti, Deputy Government Relations, Macomb County Public Works; Monique Owens, Eastpointe

The meeting was called to order by the Acting Chair, Brian Baker. A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the agenda as presented.

Adopted: YEAS: 3
 NAYS: 0

Minutes of the meeting of November 8, 2021 were presented. A motion was made by Mr. Santo, supported by Ms. Klinefelt 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. Astorino updated the board that the Chapaton Basin and 9 Mile Structural Rehab project is officially being closed out. The aeration chamber will need some work and we will receive quotes to bring to the board at a later date.

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

Adopted: YEAS: 3
 NAYS: 0

Mr. Astorino updated the board that Fishbeck has been completing the As-Needed Engineering work for us in the Southeast Macomb districts. Fishbeck is the overall prime contractor and we need to increase the depleted funds and update their rates.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve Change Order #6 for \$115,000 to the Fishbeck As-Needed Engineering Contract to reflect updated rates and budgeted amounts (8 ½ Mile share \$75,000).

Adopted: YEAS: 3
 NAYS: 0

Mr. Astorino updated the board that the In-System Storage project has been approved, designed, and we have received construction bids. The goal is to provide an additional 3.5 million gallons worth of storage in the tunnel, resulting in a 15% reduction in annual overflow volumes.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to award the bid for the construction of the In-System Storage Project to Weiss Construction in the amount of \$9,673,200.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$603,817.43 to the board for review and approval.

A motion was made by Ms. Klinefelt, 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 Ms. Klinefelt and supported by Mr. Santo.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. Santo, supported by Ms. Klinefelt, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 10:40 a.m.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on December 13, 2021 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.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

DATED: 12/13/21



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: January 10, 2022

Subject: Construction Projects Status Updates for the January 2022 Board Meeting

The following provides a status update for construction work completed within the 8 ½ Mile Relief Drain Drainage District (8MRDDD) for the previous month.

Wet Weather Operations

Wet Weather Event: December 11, 2021

Rainfall: 1.19 inches

Treated Discharge Volume: 7.1 MG

Water Quality Numbers: 5 cts / 100 ml geometric mean (Permit maximum is 1000 cts/ml)

Description: Smaller rain event but since this occurred during the non-growing season the storm behaved as if it was a larger rain event. All equipment worked as designed. The only issue that was experienced during this event is that the final total residual chlorine average was 1.58 ppm which is 0.08 ppm over the permitted amount. Our permitted event maximum is 1.9 ppm and the numbers were well below that value. This has been reported to EGLE per our permit but we do not anticipate any issues from slightly going over our event average.

Chapaton Basin and 9 Mile Drain Structural Repairs Project

Contractor: Pullman

Engineering Consultant: NTH

Project Description:

This project consists of performing concrete repairs within the Chapaton RTB (constructed in 1968) and the 9-Mile Drain (constructed in 1926). Recent inspections were performed and various types of repairs in numerous locations were noted in the reports. Repairs primarily consist of chipping away damaged concrete, prepping the reinforcing steel and remaining concrete surfaces, and installing a specialized concrete product flush to adjacent surfaces.

Significant project tasks that have occurred over the past month:

1. Continued efforts to close-out project

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$736,950.00
Total Spent to Date	Pay App #1-4	\$368,576.14
Remaining Budget		\$368,373.86

Chapaton In-System Storage Project

Contractor: Weiss Construction

Engineering Consultant: Tetra Tech

Project Description:

The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel.

Significant project tasks that have occurred over the past month:

1. Obtained competitive bids from five contractors
2. Awarded job to low-bidder, Weiss Construction, and executed contract books.
3. Notice to proceed is scheduled for February 1, 2022.
4. Construction is anticipated to begin in March / April of 2021

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$9,673,200.00
Total Spent to Date		-
Remaining Budget		\$9,673,200.00



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8-1/2 Mile Relief Drain Drainage District Board Members

CC: FILE

From: Vince Astorino, Operations & Flow Manager

Date: January 10, 2022

Subject: 8-1/2 In-System Storage Construction Contract Administration

The Macomb County Public Works Office (MCPWO) solicited bids on the Michigan Inter-governmental Trade Network (MITN) for the construction of an In-System Storage Device in the 8-1/2 Mile Relief Drain Drainage District (8MRDDD), as designed by Tetra Tech. The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel. This volume will equate out to approximately a 15% reduction in average annual overflow volume.

On December 13, 2021, the 8-1/2 Mile Relief Drain Drainage District Board approved the construction contract for Weiss Construction for this project in the bid amount of \$9,673,200.00.

Upon review of the construction bid from Weiss Construction, Tetra Tech and MCPWO developed a scope of services for Tetra Tech to perform the construction contract administration (CCA) for this project. CCA for the 8-1/2 In-System storage project was budgeted as a separate item from the construction for an amount of \$2,250,000.

The action is that the 8-1/2 Mile Relief Drain Drainage District Board accept the construction contract administration proposal and enter an agreement with Tetra Tech for amount of \$1,024,974.00.

Attachments: Tetra Tech CCA Proposal

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



TETRA TECH

January 4, 2022

Mr. Vince Astorino
Operations and Flow Manager
Macomb County Public Works Office
21777 Dunham Road
Clinton Township, MI 48036

**Re: 8-1/2 Mile Drain Drainage District
In-System Storage
Construction Engineering Services**

Dear Mr. Astorino:

Tetra Tech has appreciated the opportunity to complete design and bidding services for the In-System Storage project. Bids were recently received and the project was awarded in December. Professional engineering services will be required throughout the construction process. Tetra Tech has prepared this proposal to assist with construction services. Tetra Tech will continue to utilize its subconsultants, FK Engineering and Fishbeck, through this phase.

SCOPE OF SERVICES

We propose the following scope of services described by individual components:

Construction Administration

1. Attend preconstruction and progress meetings. We have assumed that during some portions of the projects progress meetings may be biweekly. We have assumed approximately 35 meetings.
2. Review contractor submittals required by the contract.
3. Review contractor pay applications, Requests for Information, and contract change requests.
4. Provide a Resident Project Representative (RPR) to observe the work. This will be performed on a nearly full-time basis starting in early Spring 2022 and running through late summer 2023. We have assumed 3,200 hours for this task. Daily observations will be documented in written reports and photographs.
5. Complete record drawings from records provided by Contractor.
6. Update the NexGen database at the end of the project to document the new assets constructed.
7. Subcontract with Fishbeck for construction survey layout (general benchmark setting).

Tetra Tech, Inc.

710 Avis Drive, Suite 100, Ann Arbor, MI 48108
Tel 734.665.6000 Fax 734.213.3002 www.tetrattech.com



Quality Control

1. Subcontract with FK Engineering to provide geotechnical monitoring. This scope will consist of the services described in the attached FKE scope.
2. Perform materials testing (density and concrete) required in the contract. This level of effort will be somewhat dependent on the efficiency and workmanship of the Contractor. We propose working from an allowance of \$35,000 for this task.

Post Construction

The real-time control nature of this work nearly always requires fine tuning of the control logic during the months following commissioning. Tetra Tech has budgeted an allowance of \$50,000 to be used for evaluation of the system's performance and software revisions that will assist in optimizing the performance.

ASSUMPTIONS

1. Tetra Tech's proposal is based on the contractor adhering to the 600-day schedule working typical 8-hour days for substantial completion. Should the contractor not complete the work in this duration, additional budget may be required.
2. Tetra Tech may need to utilize the balance of the design services budget (we are presently under budget).

COMPENSATION

Compensation will be based on our standard hourly rates. We propose a budget of \$1,024,974 for the work described in this proposal.

Tetra Tech is pleased that we are under budget for the design and will strive to achieve the same result for our construction authorization. For instance, some progress meetings may be held virtually which would reduce costs.


EXECUTION

We assume that the 8-1/2 Mile Drain Drainage District will issue an amendment to our existing contract for these services.

Once again, thank you for the opportunity to serve the District. We look forward to a successful construction project.

Sincerely;

Brian M. Rubel, PE
Vice President

 Price Proposal		Labor Plan 10 Resource										Task Pricing Totals				1,024,974
In-System <i>Macomb In-System Construction</i> Submitted to: Macomb In-System Construction	Bill Rate >	250.00	190.00	210.00	105.00	120.00	230.00	250.00	120.00	240.00					0	
	Proj Area >														1,024,974	
Contract Type: T&M																
Project Phases / Tasks	Total Labor Hrs	B Rubel (B Rubel)	T Ard (T Ard)	R Kaliman (R Kaliman)	C Weston (C Weston)	D Weiss (D Weiss)	M Sissoko (M Sissoko)	Luc Robitaille (Luc Robitaille)	T Lortz (T Lortz)	B Paison (B Paison)	Labor	Subs	Travel	ODCs	Task Pricing Totals	
	5,147	289	824	394	108	3,100	76	208	48	100	794,130	218,684	12,000	160	1,024,974	
Construction Admin	4,915	257	824	394	108	3,100	60	40	48	84	736,610	94,384	12,000	-	842,994	
Conforming drawings	19	1		2	8				8		2,470				2,470	
Kickoff meeting	16	4	8	4							3,360				3,360	
Progress meetings (35)	460	140	280	40							96,600		2,000		98,600	
Pay Apps (20)	180	20	160								35,400				35,400	
RFIs	200		100	100							40,000				40,000	
Submittals	540	40	40	200	100		60	40		60	108,300	48,180			156,480	
RPR	1,550		50			1,500					189,500		5,000		194,500	
RPR	1,650		50			1,600					201,500		5,000		206,500	
Record drawings	68	4	16	8					40		10,520	3,106			13,626	
Change order evaluation	72	16	40	16							14,960				14,960	
General close-out	152	24	80	24							32,000				32,000	
NexGen	4	4									1,000	7,557			8,557	
Layout Staking	4	4									1,000	35,541			36,541	
Quality Control	32	16	-	-	-	-	16	-	-	-	7,680	124,300	-	-	131,980	
Geotechnical monitoring	16	8					8				3,840	85,800			89,640	
Material testing	16	8					8				3,840	38,500			42,340	
Post-Construction	200	16	-	-	-	-	-	168	-	16	49,840	-	-	160	50,000	
Control adjustments	200	16						168		16	49,840			160	50,000	
Totals	5,147	289	824	394	108	3,100	76	208	48	100	794,130	218,684	12,000	160	1,024,974	



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8-1/2 Mile Relief Drain Drainage District Board Members

CC: FILE

From: Vince Astorino, Operations & Flow Manager

Date: January 10, 2022

Subject: Chapaton Canal Rehabilitation Design Recommendation

The Macomb County Public Works Office (MCPWO) has continued to work towards finding solutions to reduce treated combined sewer overflows (CSO) and improve water quality within Lake St. Clair. The first project that was established to reduce treated CSO's was to expand the existing open-air canal which would have reduced average annual overflow volumes up to 60%. Unfortunately this project was rejected by EGLE mainly due to MCPWO requesting to take additional waters of the State. Since then MCPWO has evaluated additional options and worked with EGLE on what could be permitted.

The following project has been conceptually developed to rehabilitate the existing open-air canal that is used to treat and store treated CSO's after leaving the Chapaton Retention Treatment Basin (RTB). As part of the initial design for the canal expansion project which was rejected, there were still elements of that project that are required to be rehabilitated. Some of those elements are as follows:

- The existing outfall gates are nearing the end of their useful life. So not only are they nearing a point where they will need to be replaced but the initial design is not optimal. The current gates open from the bottom up which when opened forces the lake to rush back into the open air canal area. This minimizes the potential to maximize storage within that area.
 - The new proposed gates would open from the top down and would store to a higher elevation which would not only provide additional storage volume but would also provide resiliency against higher lake levels.
- The South side of the canal still has the original 9 Mile Drain double box running through which was never properly abandoned. This is at risk of failure which would put Shore Club Apartments at a high risk of flooding.
 - The 9 Mile Drain will be properly abandoned and filled with concrete or completely removed. The grade will also be raised to provide additional resiliency up to the 500-year flood elevation.
- The West side of the canal is currently at an elevation which causes flooding all the way back to Jefferson when the basin is discharging and lake levels are high.
 - This will be addressed by installed new sluice gates where the 9 Mile Drain enters the canal. The ground elevation will also be raised to the 500-year flood elevation.
- The North side of the canal is currently eroding further to the North every year. There was never sheeting installed in this area.

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

- New sheeting will be installed up to a 500-year flood elevation. This will stop the erosion and provide additional stability for the canal and help protect the aeration building.
- Current flushing operations require the current canal to be filled with lake water to support the flushing pumps.
 - As part of the work a new pipe will be installed directly to the lake and to the flushing pumps. This will allow staff to only have to pull what is required to flush the RTB. It is also estimated that this will save rate payers approximately \$200k per year in treatment costs by not having to fill the canal every time the RTB is flushed.
- It is also anticipated that by making the improvements listed above that the new canal layout will be able to achieve up to 8.53 million gallons of storage. This is approximately a 26% reduction in average annual overflow volume.

Below is an image of the area of the open air canal that these repairs are being evaluated.



All of the elements that were brought up above have already been designed in some form as part of the canal expansion project. There is some additional work that will be required to ensure that designed gate structure can be moved to the new location along with the other components properly working. MCPWO is proposing to use the same team to look into this as they did reach 100% design on the other canal expansion project. This will lower costs and save time. The proposal from Wade Trim that is front of you today will be to modify the existing basis of design and evaluate if the conceptual plan is feasible. This proposal cost is \$99,812 which is a time-and-material NTE cost. With the \$2.25 million budgeted for In-System Storage CCA, there are funds left over to cover this cost.

The updated basis of design is projected to take 3 months and once completed MCPWO will request pricing from Wade Trim to put together the design utilizing the previously completed canal expansion design.

The action is that the 8-1/2 Mile Relief Drain Drainage District Board accept the design proposal and establish an engineering work order to Wade Trim on their existing contract for the NTE amount of \$99,812.00.

Attachments: Wade Trim Proposal

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



Wade Trim Associates, Inc.
25251 Northline Road • Taylor, MI 48180
734.947.9700 • www.wadetrim.com

January 5, 2022

Macomb County Public Works Office
21777 Dunham Road
Clinton Township, MI 48036

Attention: Mr. Vince Astorino

Re: Professional Engineering Scope of Services Proposal
Chapaton RTB Canal Upgrades – Design Revision

Dear Mr. Astorino:

Per your request, Wade Trim is pleased to provide this Scope of Services proposal document to Macomb County Public Works Office (MCPWO) for professional services related to the Chapaton RTB Canal design revision.

Project Description Summary

The Chapaton RTB Canal Upgrades Project will provide upgrades to the existing Chapaton RTB Canal to provide for a more resilient gate structure and RTB discharge area. The anticipated major improvements that will be evaluated consist of the rehabilitation of the cross section of the existing canal from the RTB to the gate structure and the installation of a new Gate Structure and Control Building to replace the existing Gate Structure and Control Building.

Scope of Services

Professional services will include providing a preliminary concept evaluation and engineering analysis of geotechnical, structural, hydraulic, process, civil site components, and constructability associated with the proposed upgrades. The recommendations from this effort will provide the necessary information to update the existing Basis of Design (BOD) and confirm the concepts moving forward during detailed design development.

Task 1 - Project Management

The following project management activities are to be performed as part of the project:

- A. Provide general management and technical administration of the project.
- B. Develop and maintain a master project schedule. The project schedule will be capable of identifying progress of individual tasks and of the entire project. The engineer will submit monthly progress reports summarizing activities completed, work remaining, and identifying any problems which are anticipated.
- C. Coordinate work of subconsultants, including all efforts required to maintain consistency in an effort between the team members. This also includes the routine administrative functions required to properly maintain staffing levels, assure proper accounting of both staff time and project expenses, and maintain general order.

- D. Prepare/maintain project records and billing, including effort required to maintain a complete set of administrative project records, billing, and cost information for the contract. Prepare monthly invoices including obtaining, preparing, and providing backup documentation.
- E. Attend regular meetings with the MCPWO project manager.

Task 2 – Engineering Analysis, Concept Evaluation, and Updating (BOD)

Task 2 consists of engineering analysis and concept evaluation to clearly identify the specific design elements of the project required to be updated in the BOD for which construction plans and specifications can be generated.

- A. Project Initiation – Conduct project kickoff meeting to initiate project and review project goals and objectives. Attendees will include key MCPWO and consultant design team members, including MCPWO Operations & Maintenance staff to obtain input on existing facility performance and operator concerns for new facilities.
- B. Engineering Analysis – The purpose of this task is to perform engineering analysis to establish and confirm design criteria. Specific items include the following:
 - 1. Review previous file, existing documents, and information.
 - 2. Utilize existing survey data previously collected. No additional site survey has been included.
 - 3. Review, model, and summarize hydraulic design requirements and constraints.
 - 4. Review, assemble and update geotechnical information to summarize geotechnical and structural design requirements. This includes one day of hand auger borings and DCP testing.
- C. Concept Evaluation:

After MCPWO approval is obtained for the preliminary design criteria identified in Task 2B, the engineer will confirm the previously designed concepts at the new location and/or provide revised recommendations for the following project components:

 - 1. Geotechnical
 - 2. Civil Site
 - 3. Structural
 - 4. Hydraulics
 - 5. Process
 - 6. New Gate Structure (constructability and sequence of construction)
- D. Basis of Design Technical Memorandum:
 - 1. Develop recommendations to the owner for design components, or confirm existing design components based on technical evaluations.
 - 2. Update the existing BOD Technical Memorandum that summarizes design criteria and evaluations conducted in Subtasks A through C.

E. Progress Meetings:

Progress meetings will be held at least monthly and at other times as deemed appropriate.

Task 2 - Deliverables

- Updated BOD Report summarizing design criteria and technical evaluations with recommendations for project design components.

MCPWO Task 2 – Inputs

- Attend project progress meetings.
- Designate appropriate MCPWO operations staff to participate in technical discussions and workshops to provide input and finalize design concepts.
- Review and approve consultants' updated BOD Report.

Schedule

Our team anticipates a three-month duration to complete the tasks associated with this project.

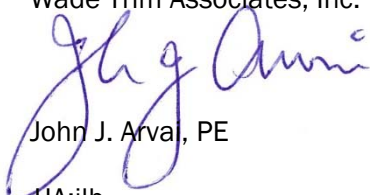
Price Proposal

The Wade Trim Team (Wade Trim, ASI, and NTH) propose to complete the above Scope of Services on a Time and Materials Basis utilizing rates identified in our attached Price Proposal breakdown for a budget amount of \$99,812.

If you have any questions or require additional information, please do not hesitate to contact me. We look forward to continuing our work with the Macomb County Public Works Office on this project.


Very truly yours,

Wade Trim Associates, Inc.



John J. Arva, PE

JJA:jlb
AAA 8190.21
20220105_ASTORINO-LTR.DOCX
Attachment

 Price Proposal		PROPOSAL NO.: MCPWO-WWS-2019-RFP-002																						1/4/2022						
CHAPATON RTB CANAL UPGRADES		Bill Rate	\$ 290	\$ 265	\$ 265	\$ 215	\$ 175	\$ 155	\$ 135	\$ 155	\$ 105	\$ 205	\$ 155	\$ 185	\$ 190	\$ 140	\$ 100	\$ 185	\$ 165	\$ 125	\$ 100	\$ 120	\$ 100	\$ 90						
SUBMITTED TO: 8 1/2 Mile Relief Drain Drainage District		Proj Area																												
PROJECT PHASES/TASKS DESCRIPTION	Total Labor Hours	Principal (WT)	PM - Sr. Professional (WT)	Sr. Professional (WT)	Prof. Engineer IV (WT) / Sr. Pric. Engineer (NTH)	Prof. Engineer III (WT) / Principal Engineer (NTH)	Prof. Engineer II (WT) / Sr Project Prof. (NTH)	Prof. Engineer I (WT) / Project Prof. (NTH)	Engineer IV (WT) / Sr. Staff Prof. (NTH)	Engineer I (WT) / Staff Prof. (NTH)	Project Specialist V (WT)	Prof. Surveyor III (WT)	Survey Crew (WT)	Sr. LA (WT)	Planning Associate	LA Staff (WT)	Principal Engineer (ASI)	Sr Project Manager (ASI)	Project Engineer (ASI)	Staff Engineer (ASI)	CADD Tech V (WT) / (ASI)	CADD Tech III (WT) / (NTH)	Project Admin (WT) / Staff Support (NTH)	Labor	ODC / Expense	Task Pricing Totals				
	544	0	40	96	36	16	0	82	30	0	24	0	0	0	0	0	16	48	60	88	0	0	8							
TASK 1 - Project Management	0																										\$ -	\$ -	\$ -	
Wade Trim	16		8					8																				\$ 3,200	\$ 125.00	\$ 3,325
Applied Science	16																		8		8							\$ 2,120		\$ 2,120
NTH	18				8			10																				\$ 3,070	\$ 120.00	\$ 3,190
TASK 2 - Engineering Analysis, Concept Evaluation and Updating BOD	0																											\$ -	\$ -	\$ -
Wade Trim	156		32	96							24														4			\$ 39,200	\$ 125.00	\$ 39,325
Applied Science	196																16	40	60	80								\$ 25,060		\$ 25,060
NTH	142				28	16		64	30															4				\$ 22,470	\$ 1,600.00	\$ 24,070
	0																											\$ -	\$ -	\$ -
	0																											\$ -	\$ -	\$ -
	0																											\$ -	\$ -	\$ -
Sub - Totals	544	0	40	96	36	16	0	82	30	0	24	0	0	0	0	16	48	60	88	0	0	8				\$ 95,120	\$ 1,970	\$ 97,090		
Bill Rate		\$ 290	\$ 265	\$ 265	\$ 215	\$ 175	\$ 155	\$ 135	\$ 155	\$ 105	\$ 205	\$ 155	\$ 185	\$ 190	\$ 140	\$ 100	\$ 185	\$ 165	\$ 125	\$ 100	\$ 120	\$ 100	\$ 90				ODC	\$ 1,970		
		\$ -	\$ 10,600	\$ 25,440	\$ 7,740	\$ 2,800	\$ -	\$ 11,070	\$ 4,650	\$ -	\$ 4,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,960	\$ 7,920	\$ 7,500	\$ 8,800	\$ -	\$ -	\$ 720	\$ 95,120	Sub Mark Up	\$ 2,722				
																									TOTAL	\$ 99,812				

8 1/2 MILE RELIEF DRAIN
12.21.21

<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>
8 1/2 Mile Relief	Chapter 20 State of MI – 16.04% County of Macomb – 2.25% Dept. of Roads – 2.25% Eastpointe – 54.33% St. Clair Shores – 25.13%						
		Baker	Aloia & Associates, P.C.	\$ 1,567.50	Invoice #23147 - 11.1.21	9 Mile Abandonment Agreement	
		Astorino	De-Cal, Inc.	\$ 13,970.00	Invoice #WO9212265 - 12.7.21	Heat Pump - Office Improvement Project	
		Astorino	Fishbeck	\$ 8,958.98	Invoice #406541 - 12.1.21	Structural Repair/LOTO - As-Needed 11.26.21	\$40,293.07
		Astorino	ULINE	\$ 1,381.13	Invoice #139428911 - 10.1.21	Supplies - Gloves/Strips/Coveralls	
		Total		\$ 25,877.61			



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 12/13/21
4. SET ID VP211213MA		5. POST DATE

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Aloia & Associates, P.C.	V25733	01	23147	11/1/2021	\$ 1,567.50

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80139	CC0004	80139	WO18006	8 1/2 Mile Relief	Re: 1000-25 Oct 2021	\$ 1,567.50	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 1,567.50

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: <u>BM/my</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile Relief</u> 31. Project Balance: <u>N/A</u> 32. Staff Date: <u>12/21/2021</u> 33. Board Date: <u>1/10/2022</u> 34. Select For Pay Date: _____
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ALOIA & ASSOCIATES, P.C.

48 South Main Street, Suite 3
 Mount Clemens, MI 48043
 (586) 783-3300

Invoice submitted to:

8 1/2 Mile Drain Drainage District Macomb County Department of Public Works Attn: Brian Baker 21777 Dunham Road Clinton Township, MI 48036

<i>Invoice Date</i>	<i>Invoice Number</i>	<i>Last Bill Date</i>
November 1, 2021	23147	October 1, 2021

In Reference To: File No. 1000-25
 8 1/2 Mile Drain Drainage District

Professional Services

		<u>Hours</u>	<u>Amount</u>
10/5/2021	JMC Receive and review of email from Vincent Astorino; review file; send response email to Vince; continued to draft Agreement to Vacate Nine Mile Road.	3.10	589.00
10/14/2021	JMC Telephone conference with Vince Astorino and Brian Rubel.	0.25	47.50
10/18/2021	JMC Continued drafting Agreement to Vacate.	2.20	418.00
10/26/2021	BJA Review 9 Mile Abandonment Agreement; provide edits and meeting with Attorney Candela to go over suggested edits.	1.20	228.00
10/27/2021	JMC Revise Agreement to Vacate a Portion of Nine Mile Road; communication with Vince Astorino.	1.50	285.00
	For professional services rendered	<u>8.25</u>	<u>\$1,567.50</u>
	Previous balance		\$2,166.00
	Accounts receivable transactions		
11/12/2021	Payment - Thank You. Check No. 5815		<u>(\$845.50)</u>
	Total payments and adjustments		(\$845.50)

	<u>Amount</u>
Balance due	<u>\$2,888.00</u>

	<u>Current</u>	<u>30 Days</u>	<u>60 Days</u>	<u>90 Days</u>	<u>120 Days</u>
	1,567.50	1,320.50	0.00	0.00	0.00

Timekeeper Summary

Name	Hours	Rate	Amount
Benjamin J. Aloia	1.20	190.00	\$228.00
Jeffrey M. Candela	7.05	190.00	\$1,339.50



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	12/7/21

4. SET ID	5. POST DATE
VP211207MA	9/30/21

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
De-Cal, Inc.	V59694	01	WO9212265	12/7/2021	\$ 13,970.00

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93001	CC0004	93001	WO18006	8 1/2 Mile Relief	PW000205; #721187	\$ 13,970.00	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 13,970.00 REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
 3 Ton Heat Pump split system with low Ambient controls

25. Finance Officer: <u>BM/mh</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile</u> 31. Project Balance: <u>N/A</u> 32. Staff Date: <u>12/21/2021</u> 33. Board Date: <u>1/10/2022</u> 34. Select For Pay Date: _____
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DE-CAL, Inc.
 24659 Schoenherr Rd.
 Warren, MI 48089-4775
 Service Phone: 586-619-0281
 Service Fax: 586-486-5242

Service Invoice

Invoice #: WO9212265

Date: 12/07/2021

Billed To: Macomb County Chapaton
 23001 E. 9 Mile Rd.
 St. Clair Shores MI 48080

Location: Macomb Chapaton Pumping
 23001 E. 9 Mile Rd.
 St. Clair Shores MI 48080

Attn: Accounts Payable

Client PO#:	Employee:	Due Terms: 30DY
--------------------	------------------	------------------------

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		Quoted Price	1.0000	13,970.000000	13,970.00	N

Notes:

3 Ton Heat Pump split system with low Ambient controls
 De-Cal Quote #721187, \$13,970.00

- Provide all labor and material to

- Provide and install new 3-ton split system with low ambient controls
- Install wall hung Evaporator and install condenser on manufactures stand
- Run line set and control wire to evaporator from condenser and test for leaks with nitrogen
- Vacuum to 500 microns and charge to factory specs
- Check, test and start by certified technician
- All labor to complete project

De-Cal Service Group is a division of De-Cal, Inc.

Please Make Checks Payable to: De-Cal, Inc.

Thank you for your prompt payment!

Amount Due: \$ 13,970.00

PURCHASE ORDER NO.

PW000205

PURCHASE ORDER NUMBER MUST
APPEAR ON ALL INVOICES AND SHIPPING
DOCUMENTS.

Vendor: **V59694**
DE CAL INC

24659 SCHOENHERR
WARREN, MI 48089

Ship To: **DPWK**
PUBLIC WORKS OFFICE
CHAPATON PUMP STATION
23001 9 MILE ROAD
SAINT CLAIR SHORES MI 48080

Requested by: Michelle Houvener

Req. Dt: 10/26/2021

ITEMS

ITEM #	ORGKEY	OBJECT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0001	8210017M	93001	3 Ton Heat Pump split system with low Ambient controls	1.00		13,970.00	13,970.00
0002	8210017M	93001	Quote #721187	1.00		0.00	0.00
TOTAL							\$13,970.00

BILL TO:
MACOMB COUNTY PUBLIC WORKS
FINANCE DEPARTMENT
21777 DUNHAM ROAD
CLINTON TOWNSHIP, MI 48036

Bruce Manning/mh
AUTHORIZED AGENT

Print Date: 10/26/2021



PW000205

24659 Schoenherr Rd.
Warren, MI 48089
586.619.0281
586.754.4371 fax

PROPOSAL

Quote #721187

Date 10/15/2021

Macomb Chapaton Pump Station
23001 E 9 Mile Rd.
Saint Clair Shores, MI

Attention: Kris Benda & Vince Astorino
Email: Kristopher.benda@macombgov.org
Vince.astorino@macombgov.org
Phone # 586-480-9368

Project Name: 3 Ton Heat Pump split system with low Ambient controls

- Description of work -

- Provide all labor and material to
 - Provide and install new 3-ton split system with low ambient controls
 - Install wall hung Evaporator and install condenser on manufactures stand
 - Run line set and control wire to evaporator from condenser and test for leaks with nitrogen
 - Vacuum to 500 microns and charge to factory specs
 - Check, test and start by certified technician
 - All labor to complete project

Quotation: Valid for 30 days
Payment Terms: Net 30 days

- Exclusions – Electrical, overtime, additional parts other than listed above, site conditions that would cause delay to the above work & any other service work other than listed above.

The above work will be done in a safe and workmanlike manner for the sum of **\$13,970.00**

Upon Approval, Please Sign and Return: Signature: _____
Date: _____

Respectfully submitted,

Gerald Whitby

Service coordinator
(Office) 586-619-0281
(Cell) 248-941-4589
gwhitby@de-cal.com

Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. *This proposal does not constitute an agreement.





ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	12/8/21
4. SET ID		5. POST DATE
VP211213MA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Fishbeck	V44063	01	406541	12/1/2021	\$ 8,958.98

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80138	CC0004	80138	WO19005	8 1/2 Mile Relief	Pjt #190051 through 11/26/21	\$ 8,466.98	GEN		
B	8210017M	80138	CC0004	80138	WO21008	8 1/2 Mile Relief	Pjt #190051 through 10/29/21	\$ 492.00	GEN		0
C											
D											
E											
F											
G											

23. Total: \$ **8,958.98** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

As Needed Services

<p>25. Finance Officer: <u>BM/mh</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>\$40,293.07</u></p> <p>32. Staff Date: <u>12/21/2021</u></p> <p>33. Board Date: <u>1/10/2022</u></p> <p>34. Select For Pay Date: _____</p>
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**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER WO19005

PROJECT NUMBER WWS-2019-001

PROJECT NAME As-Needed General Engineering Services

DRAINAGE DISTRICT Eight and One-Half Mile Relief Drain Drainage District

CONSULTANT NAME Fishbeck

INVOICE DATE 11/30/2021

INVOICE START DATE 10/30/2021

INVOICE END DATE 11/26/2021

ORIGINAL CONTRACT AMOUNT	\$	151,919.00
CHANGE ORDER TOTAL		
	\$	203,732.00
Change Order No. 1	\$	75,000.00
Change Order No. 2	\$	128,732.00
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	355,651.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	306,398.95
TOTAL AMOUNT DUE THIS INVOICE		
	\$	8,958.98
TOTAL BUDGET REMAINING		
	\$	40,293.07
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
 Remit checks to: 1515 Arboretum Drive, SE, Grand Rapids, Michigan 49546
 Remittance Advice: accounts.receivable@fishbeck.com
 616.575.3824
 Federal I.D. No. 38-1841857 | Incorporated

Attention: Mr Vincent Astorino
Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036
United States

Invoice : 406541
Invoice Date : 12/1/2021
Project : 190051
Project Name : Macomb Co PW/8.5 As-needed
 Engineering
Bill Term : 1

For Professional Services Rendered Through 11/26/2021

WO19005

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1 - Genral As Needed	22,212.42	22,212.42	0.00	0.00	0.00
1.A - Task 1a - Chapaton Structural Study	46,910.34	0.00	46,910.34	46,910.34	0.00
1.B - Task 1b - 9 Mile Pipe Repair (WO19105)	20,816.15	0.00	20,816.15	20,816.15	0.00
1.C - Task 1c - In-System Storage As-Needed	10,185.00	55.30	10,129.70	10,129.70	0.00
1.D - Task 1d - Office Improvements	21,393.90	0.00	21,393.90	21,393.90	0.00
1.E - Task 1e - Maps	7,500.00	1,657.89	5,842.11	5,842.11	0.00
1.F - Task 1f - Chapaton Sampling Plan	4,065.60	0.00	4,065.60	4,065.60	0.00
1.G - Task 1g - Chapaton Survey	2,084.25	0.00	2,084.25	2,084.25	0.00
1.H - Task 1h - Chapaton Bar Screen Hydraulic Isolation	2,976.75	0.00	2,976.75	2,976.75	0.00
1.I - Task 1i - Chapaton Environmental Study	8,521.60	0.01	8,521.59	8,521.59	0.00
1.j - Task 1j - Chapaton Flow Meter Drawings	2,680.00	0.00	2,680.00	2,680.00	0.00
1.k - Task 1k - Chapaton High Water Protection	4,783.80	0.00	4,783.80	4,783.80	0.00
1.l - Task 1l - Chapaton 3D Animation	3,557.00	0.00	3,557.00	3,557.00	0.00
1.M - Task 1m - Chapaton Ground Penetrating Radar	4,589.00	0.00	4,589.00	4,589.00	0.00
1.N - Task 1n - Chapaton Div 01 Specs	3,428.00	0.00	3,428.00	3,428.00	0.00
1.O - Task 1o - RTB & 9EB Structural Repair	148,682.00	10,377.27	138,796.73	138,304.73	492.00
Rate Labor	492.00				
1.P - Task 1p - SRF 5685-01 Project Plan Amendment	22,500.00	3,999.45	18,500.55	18,500.55	0.00
1.Q - Task 1q - Chapaton Canal Expansion Analysis	3,420.49	0.00	3,420.49	3,420.49	0.00
1.R - Task 1r - 8DR Confined Space Entry/LOTO Program	10,500.00	6,105.01	8,155.97	4,394.99	3,760.98
Rate Labor	3,679.00				
Unit Rate Expense	81.98				

1.S - Task 1s - 8DR Route and Course	4,900.00	4,900.00	4,706.00	0.00	4,706.00
<i>Rate Labor</i>	4,706.00				

Current Billings	<u>8,958.98</u>
Amount Due This Bill	<u>8,958.98</u>

1.O - Task 1o - RTB & 9EB Structural Repair

Rate Labor			
<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	3.00	164.0000	492.00
Total Rate Labor			492.00

1.R - Task 1r - 8DR Confined Space Entry/LOTO Program

Rate Labor			
<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Industrial Hygienist	3.00	163.0000	489.00
Staff Engineer	29.00	110.0000	3,190.00
Total Rate Labor			3,679.00

Unit Rate Expenses

<i>Account / Unit</i>	<i>Quantity</i>	<i>Rate</i>	<i>Amount</i>
Mileage			
Mileage - Employee Vehicle	146.40	0.5600	81.98
Total Unit Rate Expenses			81.98

Total Bill Task: 1.R - Task 1r - 8DR Confined Space Entry/LOTO Program **3,760.98**

1.S - Task 1s - 8DR Route and Course

Rate Labor			
<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineering Specialist	1.00	89.0000	89.00
Senior Engineer	0.50	164.0000	82.00
	11.00	145.0000	1,595.00
Total Senior Engineer	----- 11.50		----- 1,677.00
Senior Surveyor	6.00	130.0000	780.00
	10.00	132.0000	1,320.00
Total Senior Surveyor	----- 16.00		----- 2,100.00
Technician	8.00	105.0000	840.00
Total Rate Labor			4,706.00

Total Bill Task: 1.S - Task 1s - 8DR Route and Course **4,706.00**

Total Project: 190051 - Macomb Co PW/8.5 As-needed Engineering **8,958.98**



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 12/7/21
4. SET ID VP211207MA		5. POST DATE

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
ULINE	V14027	02	139428911	10/1/2021	\$ 1,841.51

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8200017M	72613	CC0004	72613	WO18006	8 1/2 Mile Relief	Customer #15344576; Order #62219227	\$ 1,381.13	GEN		
B	8200072M	72613				Martin	Customer #15344576; Order #62219227	\$ 276.22	GEN		0
C	8703018M	72613			WO18218	SEMCWWDS (BH)	Customer #15344576; Order #62219227	\$ 92.08	GEN		0
D	8703018M	72613			WO18219	SEMCWWDS (V)	Customer #15344576; Order #62219227	\$ 92.08	GEN		0
E											
F											
G											

23. Total: \$ **1,841.51**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/mh</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>Multiple</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>12/21/2021</u></p> <p>33. Board Date: <u>1/10/2022</u></p> <p>34. Select For Pay Date: _____</p>
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1-800-295-5510

uline.com

PO Box 88741 • Chicago IL 60680-1741

INVOICE NO.

DUPLICATE
139428911

**

INVOICE

ULINE FED ID#: 36-3684738

SHIPPING SUPPLY SPECIALISTS

THANK YOU FOR YOUR ORDER. ULINE CUSTOMER SINCE 2018

YOUR ORDER # 62219227

SOLD TO:

SHIP TO:

MDG2017 00020348 1 AB 046 1 15344576
MACOMB COUNTY PUBLIC WORKS
PUBLIC WORKS
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036-1005

MACOMB CO PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES MI 48080-1576



U100-9-2013

CUSTOMER NO.	PURCHASE ORDER NO.	SHIP VIA	ORDER DATE	DATE SHIPPED	TERMS	INVOICE DATE
15344576	KRISTOFER	UPS GROUND	10/01/21	10/01/21	NET 30 DAYS	10/01/21
QUANTITY		ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE	
ORDERED	U/M					
<p>During these unprecedented times, the earlier in the day you order from Uline, the better equipped we are to handle your order. We so appreciate your business.</p> <p>*****</p>						
2	RL	S-11710	1"X75' BLACK VELCRO STRIPS-HOOK	46.00	92.00	
2	RL	S-11711	1"X75' BLACK VELCRO STRIPS-LOOP	46.00	92.00	
50	CT	S-13450X	SAFEGRIP 12 MIL LATEX GLOVE-XL	28.00	1400.00	
2	BX	S-22212-2X	COVERALL W/ HOOD - 2XL 25/BX	79.00	158.00	
1	EA	S-24376	BIG DADDY PLUSH CHAIR	.00	.00	
THIS ITEM AT NO CHARGE						
<p>8 1/2 \$ 1,381.13 Martin \$ 276.22 B.H. \$ 92.08 V. \$ 92.08</p>						

ORDER PLACED BY: KRISTOFER BENDA

INTERNET /

SUB-TOTAL	SALES TAX	FRT/HNDLING	AMOUNT DUE
1742.00	.00	99.51	1841.51

PLEASE PAY FROM THIS INVOICE REFER TO THIS INVOICE NUMBER WHEN CONTACTING US REGARDING THIS TRANSACTION.

CUSTOMER NAME	CUSTOMER NUMBER	INVOICE NUMBER	INVOICE DATE	AMOUNT DUE
MACOMB COUNTY PUBLIC WORKS	15344576	139428911	10/01/21	1841.51



MAKE CHECK PAYABLE AND MAIL TO:

*
* ATTN: ACCOUNTS PAYABLE *
* COPY OF PAST DUE INVOICE *

ULINE
ATTN: ACCOUNTS RECEIVABLE
PO BOX 88741
CHICAGO IL 60680-1741

AMOUNT ENCLOSED
IF DIFFERENT THAN AMOUNT DUE \$ _____
EXPLAIN DIFFERENCES ON REVERSE SIDE

IMPORTANT - PLEASE DETACH AND RETURN THIS PORTION TO INSURE PROPER CREDIT

* We would appreciate payment of the *
* balance due of \$ 1841.51. If you *
* have any questions, please call us *
* at (888) 884-6910. *

Budget to Actual
8.5 Mile Relief
As of Dec 31, 2021 = 25%

DESCRIPTION	2022 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	30,000		2,338	27,662	7.8%
Other Revenue	4,000		2,024	1,976	50.6%
8.5 O&M/Charge Required Revenue	4,748,520		2,374,260	2,374,260	50.0%
PY Revenue-Fund Balance	3,840,000		-	3,840,000	0.0%
Use of SCADA Reserve	147,950		-	147,950	0.0%
Total Revenue Accounts	8,770,470	-	2,378,622	6,391,848	27.1%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000		6,000	-	100.0%
Dues, Training, Conf, Subs.	10,380			10,380	0.0%
Engineering					
As needed Engineering	75,000		8,467	66,533	11.3%
9 Mile PS-const Admin/Const Mgr at risk	2,537,390			2,537,390	0.0%
Cost Share Army corp Grant-Green Infrastructure Project	162,500			162,500	0.0%
9 Mile Pump Station Design-Use of Capital Reserve	147,950			147,950	0.0%
9 Mile Pump Station Design-Was Flushing	797,090		178,740	618,350	22.4%
9 Mile Bypass Structural Repairs-Construction/CA	730,590		26,465	704,125	3.6%
In-System Storage-Construction & Const Admin ⁽¹⁾	2,250,000		71,241	2,178,759	3.2%
New Equipment	28,590			28,590	0.0%
Office Supplies	500			500	0.0%
Operating Supplies	65,400		11,422	53,978	17.5%
Other Professional Svcs	36,000		2,095	33,905	5.8%
Personnel Services	1,032,200			1,032,200	0.0%
Repair & Maintenance	197,000		73,946	123,054	37.5%
Contribution to Reserve	288,240			288,240	0.0%
Scada System	138,040		10,640	127,400	7.7%
Utilities	267,600		17,623	249,977	6.6%
Total Expense Accounts	8,770,470	-	406,639	8,363,831	4.6%

	O&M Balance 9/30/2021	O&M	Total 12/31/2021
Cash - Operating	12,229,091	1,971,983	14,201,074
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		2,378,622	2,378,622
Expenditures		406,639	406,639
			0
Equity*	12,229,091		14,201,074

Detail of 2021 Equity*

In-System Storage Design/Const Admin/Const	2,242,472	Capital Reserve	1,199,905
9 Mile Pump Station Design	1,130,932	SCADA Reserve	129,870
9 Mile Bypass Struct Rprs-Const/CA	635,989	LSCWWI 04B Transfer	738,112
Disinfection system upgrade (Design and Construction)	14,255	Contribution from Macomb Cty	2,000,000
Chapaton Improvements-Lab/Office Space	237,749	In System Contrib from SEMSD	1,000,000
As-Needed Engineering	61,595	MEDC Grant-Design ISS ⁽¹⁾	373,355
Pave side road that goes to the basin deck	15,000	SRF Replacement Reserve	2,332,930
Chlorine storage tank #3 relining	7,500		
Firewall Hardware Design/Config	12,900		
Obsolete Wireless backhaul replacement links	16,120		
Fiber Optic Improvements	16,130		
SolarWinds - Network Management Software	9,670		
Pumping and screening improvements	54,608		