

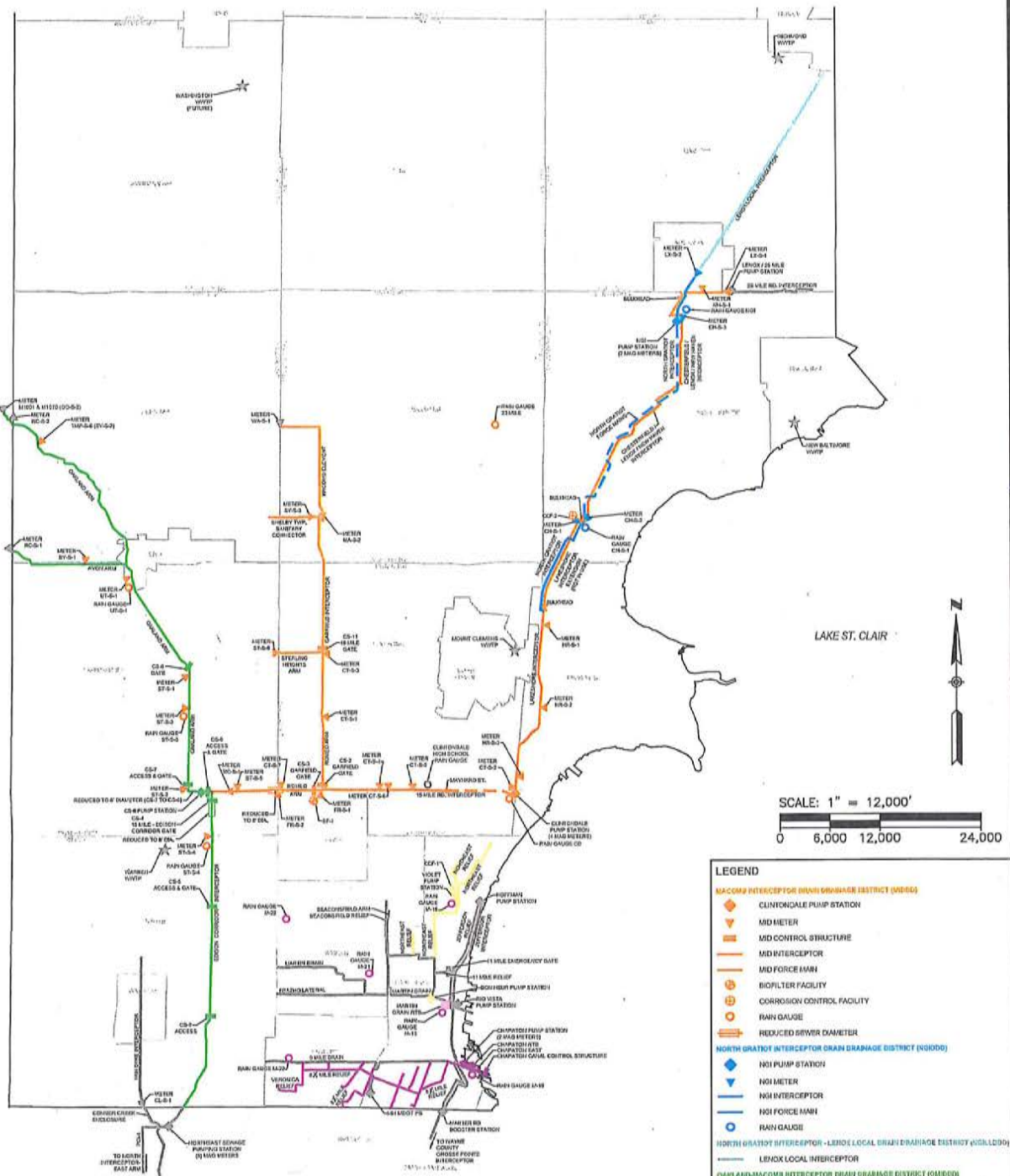
EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
MAY 10, 2021
10:00 A.M.
AGENDA

NOTE: THIS MEETING WILL BE HELD BY TELECONFERENCE

Call in Number: 1-575-708-2723
Access Code: 474 776 139

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for May 10, 2021	
3. Approval of Minutes for April 12, 2021	3
4. Public Participation	
5. Project Updates – Vince Astorino	6
6. 8 ½ Mile Improvements Petition Resolution – Brian Baker/Alan Szuma	11
Motion: To approve the resolution tentatively determining the petition is Sufficient, the proposed project is practicable, and setting a Public Hearing for July 12, 2021	
7. SRF Project Plan Resolution – 9 Mile Pump Station and In-System Storage - Vince Astorino	19
Motion: To adopt the SRF Project Plan and designate the Chief Deputy Macomb County Public Works Commissioner, Brian Baker, as the authorized representative for all activities associated with the project	
8. 9 Mile Pump Station Design Recommendation – Vince Astorino	24
Motion: To approve the proposal from Tetra Tech for an amount not to exceed \$1,476,428 for the design of the 9 Mile Pump Station project	
9. Consideration for approval of invoices (see attached)	30
10. Financial Report – Bruce Manning	99
11. Adjourn	

MACOMB COUNTY WASTEWATER SYSTEMS



- LEGEND**
- MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MDSD)**
 - ◆ CLINTONDALE PUMP STATION
 - ▼ MD METER
 - ▢ MD CONTROL STRUCTURE
 - MD INTERCEPTOR
 - MD FORCE MAIN
 - BIOFILTER FACILITY
 - CORROSION CONTROL FACILITY
 - RAIN GAUGE
 - ▬ REDUCED SEWER DIAMETER
 - NORTH GRADT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGDD)**
 - ◆ NSI PUMP STATION
 - ▼ NSI METER
 - ▢ NSI INTERCEPTOR
 - NSI FORCE MAIN
 - RAIN GAUGE
 - NORTH GRADT INTERCEPTOR - LEIXI LOCAL DRAIN DRAINAGE DISTRICT (NSLDD)**
 - LEIXI LOCAL INTERCEPTOR
 - OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMDD)**
 - ◆ CS-8 PUMP STATION
 - ▼ OMD METER
 - ▢ OMD CONTROL STRUCTURE
 - OMD INTERCEPTOR
 - ▬ REDUCED SEWER DIAMETER
 - 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT**
 - ◆ CHAPATON WEST PUMP STATION
 - ▢ CHAPATON RETENTION TREATMENT BASH
 - ▢ CHAPATON CANAL CONTROL GATE
 - 1/2 MILE INTERCEPTOR
 - RAIN GAUGE
 - SEMIWVS INTERCEPTOR DRAIN DRAINAGE DISTRICT (SEMIWVSD)**
 - ◆ SEMIWVS PUMP STATION
 - ▢ CORROSION CONTROL FACILITY
 - SEMIWVS INTERCEPTOR
 - MARVIN SADDLE INTERCEPTOR DRAIN DRAINAGE DISTRICT (MSDD)**
 - MARVIN DRAIN RETENTION TREATMENT BASH
 - OTHER SYSTEMS**
 - ◆ PUMP STATION
 - ▼ METER
 - ★ WWTP
 - INTERCEPTOR

Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held via telephone conference per the State Public Act 254 of 2020 due to the COVID-19 pandemic, on April 12, 2021, at 10:01 A.M.

PRESENT: Brian Baker, Acting Chair
Location: Clinton Township, MI

Veronica Klinefelt, Member
Location: Eastpointe, MI

Bryan Santo, Member
Location: Mt. Clemens, MI

ALSO PRESENT: Don VanSyckel, Macomb County Board of Commissioners; Karen Czernel, Deputy, Jeff Bednar P.E., Environmental Resources Manager, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Norb Franz, Communications Manager, Macomb County Public Works; John Caron, St. Clair Shores City Council; Stephen Saph Jr. – Nickel & Saph Insurance; Richard Amormino, Director of Public Works, Sebastian Previti, Supervisor, Washington Township

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 March 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 Pump and Screen project is in the final stages. Testing the new manhole covers went well with no leaks, and the project will be complete shortly.

The Chapaton and Martin disinfection project is still moving along well. The piping within the basin at Chapaton is complete, electrical is near completion, and will begin switching over all the new pumps to the new piping and the project will then be complete at Chapaton. One potential change to the project is our staff will remove the old underground conduit.

The Chapaton Lab and Mezzanine project is nearing completion and the new lab is close to being operational.

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. Baker updated the board that we received the first petition for the In-System Storage Project. The drain code requires two petitions from the communities. St. Clair Shores had a public hearing and approved the petition and we will be going to the Board of Commissioners on April 21, 2021 to request the second petition from the County.

A motion was made by Mr. Klinefelt, supported by Mr. Santo to receive and file the In System Storage Project petition.

Adopted: YEAS: 3
NAYS: 0

Mr. Bednar presented the board with an opportunity for a \$1.2 million Green Infrastructure project from the Army Corp at Chapaton. When Chapaton was built back in the 1960's it was one of the largest storm water facilities in the world. We continue with innovation at Chapaton to reduce the amount of CSO's to the lake. This project will reduce storm water runoff from the basin decking so that less water flows into the basin. The cost/benefit of the project is very reasonable with the \$900,000 of grant money and this will help reduce overflows and how often we will need to send the overflows for treatment. The Army Corp will manage the project, and work closely with our team regarding changes to be made at the pump station.

A motion was made by Mr. Klinefelt, supported by Mr. Santo to approve the Army Corp Green Infrastructure Project Agreement and \$900,000 grant with a required \$300,000 grant match and authorize the Board Chair to sign the agreement.

Adopted: YEAS: 3
NAYS: 0

Mr. Saph updated the board regarding the renewal for the general liability insurance. This will be the fourth year of securing insurance within the districts and we have established a 3 year prior claims history that needed to be established to consider more insurance companies for coverage. We did end up with the same insurer (Argonaut) as before after taking that information to market as they were still the most competitive. The retention for out of pocket expense for claims dropped from \$250,000 to \$100,000 and this is a more traditional insurance liability program with an underlying policy and an excess policy. There is a change from an occurrence form to a claims form which we are more comfortable with. In 2020 we had a \$12 million dollar aggregate and for 2021 we will have a \$11 million dollar aggregate.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the Chapter 20 General Liability Insurance coverage renewal with Argonaut Insurance Company in the amount of \$197,864 (8 ½ Mile share \$10,756.03).

Adopted: YEAS: 3
NAYS: 0

Mr. Baker updated the board that the ability to have virtual meetings has been extended through the end of the year if certain conditions are met.

A motion was made by Mr. Santo, supported by Ms. Klinefelt to adopt the resolution regarding electronic and telephonic meetings procedures.

The Chair presented the invoices totaling \$502,581.84 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 Mr. Santo and supported by Ms. Klinefelt.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Ms. Klinefelt, supported by Mr. Santo, 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 10:50 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 taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on April 12, 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: 4/12/21



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: May 10, 2021

Subject: Construction Projects Status Updates for April 2021 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.

Chapaton Pump & Screen Project

Contractor: J.F. Cavanaugh

Engineering Consultant: HRC

Project Description:

This project consists of the replacement of the influent bar screens, addition of a third intermediate pump, and replacement of the manhole covers located at level B3 within the Chapaton Pump Station. The bar screens have reached the end of their useful life and are critical to protecting the pumps to not allow large objects to enter the wet well. The third intermediate pump is being installed as a redundant measure for dewatering of the in-system storage increased stored flows. The manhole covers are being replaced with pressure rated sealed covers to allow staff to raise the operating level of the wet well by 6 feet. This will provide approximately 3 million gallons of additional storage and will provide additional pumping capacity for the stormwater pumps.

Significant project tasks that have occurred over the past month:

1. Majority of punch-list items have been resolved.
2. Working on final change order and project close-out.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$1,162,522.00
Change Order #1	2/25/20	\$40,000.00
Change Order #2	2/26/20	(\$136,200.00)
Revised Contract Amount		\$1,066,272.00
Total Spent to Date	1/19/21	\$986,628.00
Remaining Budget		\$79,644.00

Chapaton & Martin Disinfection Replacement Project

Contractor: Weiss Construction

Engineering Consultant: Wade Trim

Project Description:

This project consists of the complete replacement of the disinfection systems at Chapaton and Martin. Macomb County Public Works Office (MCPWO) staff identified that a critical capital improvement need for the Chapaton and Martin RTB's was the replacement of the disinfection systems. These are systems that were installed in approximately 1978 and have exceeded the end of their useful life. MCPWO staff has worked diligently to keep the existing disinfection pumps in service as they are prone to failure and require expensive, difficult to obtain parts. The project involves all disinfection chemical feed pumps, new electrical controls and VFDs, and new disinfection and sample piping within the Chapaton RTB.

Significant project tasks that have occurred over the past month:

1. Completed all plumbing in Chapaton Basin, tested diffusers, and made piping switchover
2. Pulled all wire and performed system startup on new hose pumps.
3. Completed all piping demolition and switchover in the Chapaton East Building Pump Room.
4. Built electrical equipment racks, mounted VFD cabinets & flowmeter boxes, and ran conduits

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$995,925.00
Change Order #1	12/16/20	(\$16,337.83)
Change Order #2	04/28/21	(\$21,333.02)
Revised Contract Amount		\$958,254.15
Total Spent to Date	Pay Apps #1-5	\$666,757.35
Remaining Budget		\$291,496.80



Figure 1 – Sample piping lines from pump racks to TRC units

Figure 2 – Completed demolition, new plumbing, and system startup in Chapaton East Building Pump Room



Figure 3 – New wiring and controls for hose pumps

Chapaton Lab & Mezzanine Project

Contractor: Cross Construction

Engineering Consultant: Fishbeck

Project Description:

This project consists of relocating the Lab to the Chapaton East Building to allow for the complete overhaul of the Mezzanine level within the Chapaton Pump Station which includes new crew quarters, conference room, kitchen area, and SCADA control room. All areas were original to the facility dating back to 1968 and in need of improvements.

Significant project tasks that have occurred over the past month:

1. Completed demolition of Mezzanine level and installed all new interior studs, insulation, drywall, and paint
2. Hung ceilings, laid floors, and painted
3. Installed new wooden cabinetry in Kitchen and in the SCADA Control Room

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$667,777.00
Change Order #1	03/31/21	\$4,508.19
Change Order #2	04/28/21	\$5,659.38
Revised Contract Amount		\$677,944.57
Total Spent to Date	Pay Apps #1-5	\$471,133.54
Remaining Budget		\$206,811.03



Figure 4a – Demolished old lab – SCADA Room



Figure 4b – Demolished remainder of interior walls – SCADA Room



Figure 4c – Installed new studs, insulation – SCADA Room



Figure 4d – Installed new drywall and flooring – SCADA Room

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933
ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264



Figure 5 – New cabinetry – Kitchen Area



Figure 6 – Installed self-levelling compound on floors - Locker Room



8 1/2 MILE DRAIN DRAINAGE DISTRICT

8 1/2 MILE DRAIN

RESOLUTION NO. 1

At a _____ meeting of the Drainage Board (the "Drainage Board") of the 8 ½ Mile Drain Drainage District, held virtually via google meet on the May 10, 2021, at 10:00 a.m.:

PRESENT: _____

ABSENT: _____

The following resolution was offered by _____
and supported by _____:

WHEREAS, the Macomb County Public Works Commissioner, Chairperson of the Drainage Board ("Chairperson"), received a petition from the City of St. Clair Shores and the Macomb County Board of Commissioners for the maintenance and improvement of the 8 ½ Mile Drain, pursuant to Chapter 20 of Public Act 40 of 1956, as amended ("Drain Code"); and

WHEREAS, the Chairperson presented the petition and the resolution filed with her and attached hereto as Exhibit A; and

WHEREAS, the Chairperson presented proof that all public corporations which may be subject to an assessment or in which are located any of the areas to be drained as described in the petition, have been notified of the filing of the petition pursuant to Section 463(3) of the Drain Code; and

NOW, THEREFORE, BE IT RESOLVED by the Drainage Board of the 8 ½ Mile Drain Drainage District, as follows:

1. That the Drainage Board has considered the petition by the City of St. Clair Shores and the Macomb County Board of Commissioners, and hereby tentatively determines the petition is sufficient, and that the drainage project proposed in said petition is practicable.

2. That the drainage project petitioned for in said petition may, for brevity, be referred to in the proceedings taken from time to time relative thereto as “Construction of Improvements to the 8 ½ Mile Drain.”

3. That the name “8 ½ Mile Drain” is continued as the name of the drain to be improved pursuant to the petition and these proceedings.

4. That it is tentatively determined the following public corporations be assessed to pay the cost of said project, to wit:

City of St. Clair Shores, Macomb County, Michigan for benefits to the public health;

City of Eastpointe, Macomb County, Michigan for benefits to the public health;

County of Macomb, Michigan for benefits to County roads; and

Michigan Department of Transportation, for benefits to State highways.

5. That the Drainage Board will meet on July 12, 2021, at 10 a.m. held virtually via Google Meet, for the purposes of hearing any objections to the proposed drain and the petition for the drain, and to the matter of assessing the costs of the drain to the designated public corporations named above.

6. That the notice of said meeting shall be in substantially the form attached hereto as Exhibit B.

7. That said notice shall be published twice in the Macomb Daily, a newspaper published in the County of Macomb, with the first publication to be not less than twenty (20) days prior to the time of said hearing.

8. That said notice shall also be sent by the Chairperson of this Drainage Board by certified mail to the Macomb County Clerk, Macomb County Road Department, City Clerk for the City of St. Clair Shores, City Clerk for the City of Eastpointe, and the Director of the Michigan

Department of Transportation, which mailings shall not be less than twenty (20) days prior to the time of said hearing.

9. All prior resolutions and parts of prior resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

Yeas: _____

Nays: _____

RESOLUTION DECLARED ADOPTED.

I, the undersigned, the duly qualified and acting Chairperson of the Drainage Board of the 8 ½ Mile Drain Drainage District, do hereby certify that the foregoing is a true and complete copy of certain proceedings taken by the 8 ½ Mile Drain Drainage Board at a meeting held on May 10, 2021, and further certify that the above Resolution was adopted at said meeting in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, as amended, and that the minutes of said meeting were kept and will be or have been made available as required by said Act..

Candice S. Miller
Chairperson of the Drainage Board

Exhibit A

RESOLUTION NO. 2021-6302

*Official Resolution of the Board of Commissioners
Macomb County, Michigan Resolution*

RESOLUTION AUTHORIZING THE FILING OF A PETITION WITH THE COUNTY PUBLIC WORKS COMMISSIONER REGARDING THE 8 1/2 MILE DRAIN DRAINAGE DISTRICT

The Board of Commissioners offers the following Resolution:

A RESOLUTION TO PROVIDE FOR:

- Petition requesting maintenance and improvement to the 8 ½ Mile Drain Drainage District.

WHEREAS, the Board of Commissioners ("Board of Commissioners") of the County of Macomb, State of Michigan (the "County"), has determined that the requesting of maintenance and improvement, including without limitation, construction of in-system storage control structures (the "Project"), to the 8 ½ Mile Drain Drainage District (the "Drain") are necessary for the public health, safety, and welfare of the County; and

WHEREAS, the Board of Commissioners desires to file a petition with the Macomb County Public Works Commissioner, the form of which is attached as Exhibit A (the "Petition"), pursuant to Chapter 20 of the Drain Code, Act 40, Public Acts of Michigan, 1956, as amended (the "Act 40"), to facilitate implementation of the Project; and

WHEREAS, the City of St. Clair Shores (the "City") has declared all the lots and parcels of the City as the area to be serviced by the Project, and these parcels will be especially benefited by the Project and that the City may levy a special assessment, charge or fee for all or a portion of the cost of the Project against benefitting properties under section 490 of Act 40 or levy a tax for all or a portion of the cost of the Project against all taxable property within the City pursuant to Chapter 20 of Act 40 including, but not limited to, Section 475; and

WHEREAS, the City, after due and legal notice, held a public hearing to hear objections to the proposed Project and special assessments, fees, or charges to be levied, as required by Section 489a of Act 40 and filed a petition for the Project with the Macomb County Public Works Commissioner.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The Chair of the Board of Commissioners is hereby authorized and directed to execute and send the Petition to the Macomb County Public Works Commissioner by registered mail.
2. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution be and the same hereby are rescinded.



DON BROWN, Chair
Board of Commissioners



ANTHONY FORLINI
Clerk/Register of Deeds

Adopted: April 30, 2021

CLERK CERTIFICATION OF RESOLUTION 2021-6302

I hereby certify that the foregoing is a true and complete copy of a resolution duly adopted by the County Board of Commissioners of the County of Macomb, Michigan at a regular meeting held on April 30, 2021 at 3:00 p.m. prevailing Eastern Time, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been made available as required by said Act 267.

I further certify that Notice of this meeting was posted pursuant to the requirements of Section 308, Act 34, Public Acts of Michigan, 2001, as amended, not less than 24 hours prior to the meeting, in the form attached hereto as Exhibit A.

I further certify that the following Commissioners were present at said meeting: Klinefelt, Romano, Brown, Kraft, Haugh, Wallace, Xiong, VanSyckel, Zinner, Matuzak, Farrington, Sabatini and Nard and that no Commissioners were absent.

I further certify that Commissioner Klinefelt moved for adoption of said resolution and that Commissioner Nard supported said motion.

I further certify that the following Commissioners voted for adoption of said resolution: Klinefelt, Romano, Brown, Kraft, Haugh, Wallace, Xiong, VanSyckel, Zinner, Matuzak, Farrington, Sabatini and Nard and that no Commissioners voted against adoption of said resolution.

I further certify that the Commissioners voting for adoption of said resolution constitute at least a majority of the total membership of the Board of Commissioners.



ANTHONY FORLINI, Clerk/Register of Deeds

EXHIBIT A

Form of Petition

**PETITION FOR MAINTENANCE AND IMPROVEMENT PURSUANT TO CHAPTER 20 OF ACT 40 OF
THE PUBLIC ACTS OF 1956, AS AMENDED**

8 1/2 MILE DRAIN DRAINAGE DISTRICT

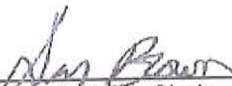
Pursuant to Chapter 20 of the Michigan Drain Code, Act 40, Public Acts of Michigan 1956, as amended ("Act 40"), the Board of Commissioners of the County of Macomb, State of Michigan (the "County") hereby petitions for an intracounty drain project consisting of maintenance and improvement, including without limitation, construction of in-system storage control structures (the "Project"), to the 8 1/2 Mile Drain Drainage District (the "Drain"), which is wholly located and established in the City of St. Clair Shores (the "City"), wholly located within the County.

In a Resolution of the Board of Commissioners duly adopted at its meeting on April 29, 2021, the Board of Commissioners determined that the Project is necessary for the public health, safety, and welfare of the residents of the County.

The Project will serve property located within the limits of the County. The Board of Commissioners hereby consents to the Project and it is understood and agreed that the cost of the Project is to be assessed against the City. The City may levy a special assessment, charge or fee for all or a portion of the cost of the Project against benefitting properties under section 490 of Act 40 or levy a tax for all or a portion of the cost of the Project against all taxable property within the City pursuant to Chapter 20 of Act 40 including, but not limited to, Section 475.

All of the lots and parcels of land in the City make up the area to be serviced by the Project. This petition is authorized and sent pursuant to a Resolution of the Board of Commissioners adopted at its meeting of April 29, 2021, a certified copy of which is attached hereto.

COUNTY OF MACOMB



DON BROWN, Chair
Macomb County Board of Commissioners



8 1/2 MILE DRAIN DRAINAGE DISTRICT

8 1/2 MILE DRAIN

NOTICE OF PUBLIC HEARING

EXHIBIT B

DATE: _____, 20__

TIME: _____ a.m./p.m.

LOCATION: _____

QUESTIONS: (XXX) XXX-XXXX

PLEASE TAKE NOTICE that pursuant to Chapter 20 of Act 40, Public Acts of Michigan 1956, a petition was filed with the Macomb County Public Works Commissioner by the City of St. Clair Shores and the Macomb County Board of Commissioners, requesting said Public Works Commissioner maintain and improve the 8 ½ Mile Drain.

PLEASE TAKE FURTHER NOTICE that the Drainage Board for the 8 ½ Mile Drain Drainage District has considered said petition and made a tentative determination that the petition is sufficient and that project is practicable. The Drainage Board has further determined to continue the name "8 ½ Mile" as the name of the drain, and has made a tentative determination that the following public corporations should be assessed for the cost of the project as follows:

City of St. Clair Shores, Macomb County, Michigan for benefits to the public health;

City of Eastpointe, Macomb County, Michigan for benefits to the public health;

County of Macomb, Michigan for benefits to County roads; and

Michigan Department of Transportation, for benefits to State highways.

PLEASE TAKE FURTHER NOTICE that the Drainage Board will meet at the above date, time and location for the purpose of hearing any objections to the proposed drain project and the petition for the drain, and to the matter of assessing cost of the drain to the designated public corporations named above.

Proceedings conducted at this public meeting will be subject to the provisions of the Michigan Open Meetings Act. Information regarding this meeting may be obtained from the Macomb County Public Works Commissioner's Office located at 21777 Dunham Road, Clinton Township, MI 48036.

Persons with disabilities needing accommodations for effective participation in the meeting should contact the Public Works Commissioner at the number listed above or through the Michigan Relay Center at 7-1-1 (TDD) at least 24 hours in advance of the meeting to request mobility, visual, hearing or other assistance.

Dated: _____

Candice S. Miller
Macomb County Public Works Commissioner



MACOMB COUNTY PUBLIC WORKS COMMISSIONER

8 1/2 MILE DRAIN

AFFIDAVIT OF MAILING

Candice Miller, says that she is the Macomb County Public Works Commissioner, and that she caused the attached Notice of Filing of a Petition for the 8 1/2 Mile Drain to be mailed, via first-class mail, on May 6, 2021 to the following public corporations as required by Section 463(3) of the Michigan Drain Code, PA 40 of 1956, as amended:

Anthony G. Forlini
Macomb County Clerk
120 N. Main
Mount Clemens, MI, 48043

Bryan Santo
Director Macomb County Road Department
117 S. Groesbeck Hwy.
Mt. Clemens, MI 48043

Mary Kotowski
City of St. Clair Shores Clerk
27600 Jefferson Avenue
St. Clair Shores, MI 48081

City of Eastpointe, Clerk
23200 Gratiot Ave.
Eastpointe, MI 48021

Paul C. Ajegba
Director of Michigan Department of Transportation
PO Box 30050
425 West Ottawa Street
Lansing, MI 48909

Dated: May 6, 2021

Candice S. Miller

Candice S. Miller
Macomb County Public Works Commissioner

Subscribed and sworn before me on the 6 day of May, 2021.

Emily Engelman

Emily Engelmahn, Notary Public
Macomb County, Michigan
Acting in Macomb County, Michigan
My commission expires: May 31, 2024



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8.5 Mile Relief Drain Drainage District Board Members

CC: Brian Baker, Chief Deputy

From: Vincent Astorino, Operations & Flow Manager

Date: May 10, 2021

Subject: SRF Project Plan Board Resolution Recommendation

The Macomb County Public Works Office (MCPWO) has been diligently working to identify all funding opportunities possible for the two upcoming Chapaton projects. These projects consist of Project 1 – 9 Mile Pump Station and Project 2 – In-System Control Devices. Outside of the potential grant opportunities we are looking to submit for a State Revolving Fund (SRF) loan which this year is a 1.875% and 20-year loan in the amount of \$41,027,000. Both of these projects have been presented to the board in March of 2021.

By submitting for this loan, the 8 ½ Mile Relief Drain Drainage District is not required to take the loan or even the full amount of that loan. This project plan submission, if accepted, will put the drain district in the queue for funding at what is currently the lowest possible interest rate available on the market for these projects. There is also potential to receive funding through other sources if the State decides that they are going to fund “shovel-ready” SRF projects grant money.

This project plan was put together by Fishbeck through the as-needed contract. The DRAFT project plan was put out for public review starting on March 22, 2021 and was listed in the Macomb Daily. Copies of the plan were listed on the MCPWO website. On April 26, 2021, a public hearing was held which went through a presentation of the project. No members of the public were in attendance and no questions were sent to MCPWO. If approved today, the final project plan will be submitted by June 1, 2021. The results for funding and the SRF priority list should be published by the end of 2021.

The recommendation for the board is that 8 ½ Mile Relief Drain Drainage District formally adopts said Project Plan and agrees to implement the selected alternative (Alternative 1). Be it further resolved, that the Chief Deputy Macomb County Public Works Commissioner, a position held by Brian Baker, is designated as the authorized representative for all activities associated with the project referenced above, including submittal of said Project Plan as the first step in applying to the State of Michigan for a revolving fund loan to assist in the implementation of the selected alternative.

Attachments: Board Resolution for Adoption of the Final Project Plan.

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

**A RESOLUTION ADOPTING A FINAL PROJECT PLAN
FOR WASTEWATER SYSTEM IMPROVEMENTS or
NPS POLLUTION CONTROL/STORMWATER IMPROVEMENTS AND
DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE**

WHEREAS, the Eight and One-Half Mile Relief Drain Drainage District recognizes the need to make improvements to its existing wastewater treatment and collection system or its existing NPS pollution control/stormwater treatment system; and

WHEREAS, the Eight and One-Half Mile Relief Drain Drainage District authorized Fishbeck to prepare a Project Plan, which recommends the construction of the Nine Mile Pump Station and the 8 ½ Mile Relief Drain In-System Storage Devices; and

WHEREAS, said Project Plan was presented at a Public Hearing held on April 26, 2021, and all public comments have been considered and addressed;

NOW THEREFORE BE IT RESOLVED, that the Eight and One-Half Mile Relief Drain Drainage District formally adopts said Project Plan and agrees to implement the selected alternative (Alternative No. 1).

BE IT FURTHER RESOLVED, that the Chief Deputy Macomb County Public Works Commissioner, a position currently held by Brian Baker, is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a revolving fund loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

Abstain:

Absent:

I certify that the above Resolution was adopted by Intra County Drain Board for the Eight and One-Half Mile Relief Drain on _____.

BY: Candice S. Miller, Chair, Macomb County Public Works Commissioner

Signature

Date

Michigan Department of Environment, Great Lakes, and Energy
Gretchen Whitmer, Governor
Liesl Eichler Clark, Director

http://www.michigan.gov/egle

Clean Water Revolving Funds SRF/SWQIF Project Plan Submittal Form

Name of the Project Eight and One-Half Mile Relief Drain Drainage District State Revolving Fund 5685-01 Project Plan Amendment	Applicant's Federal Employer Identification Number (EIN) 38-6004868
Legal Name of Applicant (The legal name of the applicant may be different than the name of the project. For example, a county may be the applicant for bonding purposes, while the project may be named for the particular village or township it serves.) Eight and One-Half Mile Relief Drain Drainage District	Areas Served by this Project Counties <u>Macomb County</u> Congressional Districts <u>9</u> State Senate Districts <u>8 and 9</u> State House Districts <u>18</u>
Address of Applicant (Street, P O Box, City, State & Zip) 21777 Dunham Road, Clinton Township, MI 48306	Associated SAW Grant Number 1173-01
NPDES Permit Number MI0025585	Brief Description of the SRF/SWQIF Project – The loan will be used to construct 2 projects that will provide needed redundancy and reduce the frequency and volume of CSO discharges and help improve the water quality of Lake St. Clair <u>Project 1 – 9 Mile Pump Station:</u> This project involves the construction of a 600 cfs pump station adjacent to the existing Chapaton Pump Station to pump wet weather flows into the Chapaton Retention Treatment Basin. The new pump station is needed to provide firm capacity redundancy to the existing pump station especially during high lake levels <u>Project 2 – In-System Control Devices:</u> This project involves the construction of in-system control structures within the 8 ½ Mile Relief Drain to utilize storage within the pipe. The estimated storage volume is approximately 6.7 MG.
Disadvantaged Community Determination <input checked="" type="checkbox"/> The applicant is requesting a disadvantaged community determination, and a completed <i>Disadvantaged Community Status Determination Worksheet</i> is attached.	
Estimated Total Cost of the SRF/SWQIF Project Total: \$50,463,300 SRF Request: \$41,027,000	SRF/SWQIF Construction Start Target Date Project 1 – June 2022 Project 2 – April 2022
Name and Title of Applicant's Authorized Representative Brian Baker Chief Deputy Macomb County Public Works Commissioner	
Address of Authorized Representative (if different from above)	Telephone 586-469-5325 E-Mail Address brian.baker@macombgov.org
Signature of Authorized Representative	Date
Joint Resolution(s) of Project Plan Adoption/Authorized Representative Designation is attached. check here <input type="checkbox"/>	

A final project plan, prepared and adopted in accordance with the Department's *Clean Water Revolving Funds (SRF and SWQIF) Project Plan Preparation Guidance*, must be submitted by July 1st in order for a proposed project to be considered for placement on a Project Priority List for the next fiscal year. Please send your final project plan with this form to:

WATER INFRASTRUCTURE FINANCING SECTION
FINANCE DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
P O BOX 30457
LANSING MI 48909-7957

(EQP 3523 REV 6-05-19)

Project Useful Life and Cost Analysis Certification Form

Project Information

Applicant Name: Eight and One-Half Mile Relief Drain Drainage District - State Revolving Fund 5685-01 Project Plan Amendment

SRF Project to be Funded:

The loan will be used to construct 2 projects that will provide needed redundancy and reduce the frequency and volume of CSO discharges and help improve the water quality of Lake St. Clair

Project 1 – 9 Mile Pump Station: This project involves the construction of a 600 cfs pump station adjacent to the existing Chapaton Pump Station to pump wet weather flows into the Chapaton Retention Treatment Basin. The new pump station is needed to provided firm capacity redundancy to the existing pump station especially during high lake levels

Project 2 – In-System Control Devices: This project involves the construction of in-system control structures within the 8 ½ Mile Relief Drain to utilize storage within the pipe. The estimated storage volume is approximately 6.7 MG

Per Section 602(b)(13) of the Federal Water Pollution Control Act (FWPCA), all Clean Water State Revolving Fund (CWSRF) assistance recipients must certify that they have conducted the studies and evaluations described in 602(b)(13)(A) and (B), collectively known as a cost and effectiveness analysis.

- 1) The applicant has studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is sought under the CWSRF; and
- 2) The applicant has selected, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account the cost of:
 - o constructing the project or activity;
 - o operating and maintaining the project or activity over the life of the project; and
 - o replacing the project or activity.
- 3) The applicant has completed a Project Useful Life analysis for the project or activity.
Attach appropriate documentation

I certify that requirements (1), (2), and (3) as checked above have been met.

Maria E. Sedki, PE

Name of Professional Engineer (Please Print or Type)



Signature of Professional Engineer

4/28/2021

Date

Brian Baker, Chief Deputy Macomb County Public Works Commissioner

Name and Title of Authorized Representative (Please Print or Type)

Signature of Authorized Representative

Date

Disadvantaged Community Status Determination Worksheet

The following data is required from each municipality in order to assess the disadvantaged community status. Please provide the necessary information and return to:

Robert Schneider
Water Infrastructure Financing Section
Finance Division
P.O. Box 30457
Lansing, MI 48909-7957
Schneiderr@michigan.gov

If you have any questions, please contact Robert Schneider at 517-388-6466

Please check the box this determination is for:

DWRF SRF

1. Total amount of anticipated debt for the proposed project, if applicable.

\$41,027,000

2. Annual payments on the existing debt for the system.

\$386,559

3. Total operation, maintenance and replacement expenses for the system on an annual basis.

\$4,509,865

4. Number of "residential equivalent users" in the system.

See attached for breakdown by agency

For determinations made using anticipated debt, a final determination will be made based upon the awarded loan amount.



Candice S. Miller

Public Works Commissioner
Macomb County

To: Board Members of the 8 ½ Mile Relief Drain Drainage District (8MRDDD)

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: May 5, 2021

Subject: 8MRDDD 9 Mile Pump Station Project– Design Recommendation

Macomb County Public Works Office (MCPWO), on behalf of the 8MRDDD, has coordinated a competitive request for proposals for the design of the 8MRDDD 9 Mile Pump Station project.

In 2018, MCPWO commissioned a study of the entire MCPWO wastewater system to develop a Master Plan. As part of this overall Master Plan, the SE Macomb wastewater districts were a key focus. The SE Macomb portion of this has now been completed and one of the key recommendations from the Master Plan team was to build the 9 Mile Pump Station. It was found that current Chapaton Pump Station does not meet firm pump capacity. During large rain events, if one of the large storm weather pumps was to fail or the emergency bypass is needed and lake levels are high the current facility will not be able to handle incoming flows. This has the potential to cause significant flooding impacts in the upstream collection system. A detailed presentation of this was provided to the board during the March meeting.

MCPWO put together a request for proposal package that was posted to MITN on February 22, 2021. The proposals were due on April 22, 2021. For this design package, MCPWO received three proposals which were from AECOM, Tetra Tech, and Wade Trim.

Once receiving the proposals, MCPWO went through its standard scoring process for design which includes a pure technical evaluation before cost is evaluated. From this evaluation, the technical scoring was as follows which is out of 100 total possible points:

- AECOM = 84.83
- Tetra Tech = 96.17
- Wade Trim = 97.83

Once the technical packages were reviewed the cost proposals were then opened and below is a summary of those costs along with what has been budgeted for this project.

Consultant	Cost
AECOM	\$1,792,500.79
Tetra Tech	\$1,379,412.00
Wade Trim	\$1,462,662.00

Since the scores were so close, MCPWO conducted interviews with all three consultants and their teams. These interviews took place on April 29, 2021. After the interviews scores were provided by the review team and the new total scores are listed below. All scores and costs are summarized in the attached scoring summary sheet as well.

- AECOM = 82.52
- Tetra Tech = 97.13
- Wade Trim = 96.57

The highest scoring team after the interviews was Tetra Tech. Ultimately their vision for this new pump station aligned the best with MCPWO. They also brought forward some potential valuable additions to the project such as integrating power redundancy to the existing Chapaton Pump Station and constructing the new pump station further to the East along with abandoning the existing 9 Mile Road in that area. Tetra Tech has an excellent understanding of the project and a successful history when it comes to design projects at Chapaton. Tetra Tech's predecessor McNamee, Porter and Seeley designed the original Chapaton facility in the early 1960's. They have also worked on numerous other projects within the Chapaton district.

MCPWO has met with Tetra Tech to discuss scope for the project and to finalize costs. Since their original cost proposal of \$1,379,412 there have been a few changes that were made such as adding more time to look at abandoning 9 Mile Road and evaluating the electrical redundancy at Chapaton with the new 9 Mile Pump Station to name a couple. A separate memo has been attached along with the final cost proposal to discuss their cost revisions. This was a negotiated effort and MCPWO is satisfied with where the final changes have come in at \$1,476,428 to provide additional value to the project.

For the budget, we are going to use funds that were collected for flushing improvements in the amount of \$1,328,480. We also have another \$2.3 million available in funds within reserves that have already been collected over the years to rehab the pumps at Chapaton. We can use some of these funds and still have plenty of funding left to cover the upcoming Chapaton Storm pump #2 rehabilitation. Therefore there should be no budget impacts for this design.

MCPWO staff is recommending to award the contract to Tetra Tech in the total NTE amount of \$1,476,428 to perform the work associated with the 9 Mile Pump Station project.

Attachments: MCPWO Scoring Summary
Tetra Tech Cost Breakdown
Tetra Tech Supplemental Scope

Macomb County Public Works Office

Request for Proposal Evaluation Summary



RFP Number:
Project Description:
Budget:

MCPWO-WWS-2021-RFP-001
9 Mile Pump Station Design
\$1,328,480

Design

Requirement	Tetra Tech	Wade Trim	AECOM
Technical Proposal	x	x	x
Cost Proposal - Separate Sealed Envelope	x	x	x
Owner-Engineer Disclosure From	x	x	x
Non-Collusion Affidavit	x	x	x
General Information	x	x	x
Iran Economic Sanction Act	x	x	x
Federal E-Verify Program	x	x	x
Proposal Form - Submitted with Cost Proposal	x	x	x
Vendor Certification Debarment	x	x	x
Bonding Capacity - Construction Projects Only			
Total:	9	9	9

Technical Proposal Evaluation

Category (Max Score)	Tetra Tech	Wade Trim	AECOM
Technical Proposal (50)	46.67	49.00	42.00
Experience & Qualifications (25)	24.83	24.83	20.67
Project Team & Key Individuals (25)	24.67	24.00	22.17
Sub-Total Score:	96.17	97.83	84.83

Cost Breakdown

Task	Tetra Tech	Wade Trim	AECOM
Task 1. Infrastructure Survey	\$54,535.00	\$28,800.00	\$89,742.38
Task 2. Topographic Survey	\$27,008.00	\$25,100.00	\$53,593.40
Task 3. Basis of Design	\$226,570.00	\$276,565.00	\$330,041.12
Task 4. 30% Design	\$401,670.00	\$287,839.00	\$414,496.58
Task 5. CMaR Bidding	\$48,401.00	\$35,842.00	\$66,922.19
Task 6. Final Design	\$621,228.00	\$808,516.00	\$837,705.12
Total Cost	\$1,379,412.00	\$1,462,662.00	\$1,792,500.79
Sub-Total Score:	100.00	94.31	76.95

Interview	Tetra Tech	Wade Trim	AECOM
Score (10)	10.00	8.67	7.00
Sub-Total Score	100.00	86.67	70.00

Composite Score

Proposal	Tetra Tech	Wade Trim	AECOM
Technical	72.13	73.38	63.63
Cost	20.00	18.86	15.39
Interview	5.00	4.33	3.50
Total Score:	97.13	96.57	82.52

Recommendation	Proposal	Weighted Percent
Tetra Tech	Technical	75%
	Cost	20%
	Interview	5%

8 ½ Mile Relief Drain Drainage District
9 Mile Pump Station Design Project
Scope and Fee Revisions to Tetra Tech Proposal
May 5, 2021

This memo is prepared to document the changes in scope and fee from that submitted in the proposal. These changes have been made as a result of the discussions at the interview and scope confirmation meeting.

SCOPE CONFIRMATION

Topographic Surveying – Additional surveying and office analysis will be performed to pick-up topographic and boundary information along East Nine Mile and properties to the south to accommodate the potential to vacate the right-of-way.

An allowance of \$38,660 has been included for additional surveying tasks (such as preparation of legal descriptions and preparation for public hearings) required for the right-of-way being vacated.

Design Flow Verification – This will not be performed and the 600 cfs design flow in the RFP will be used.

Screening – During the BOD, screening options will be evaluated that also treat the gravity discharge to the RTB. This may require a separate screening structure near the existing gravity basin gate into the RTB and our fee reflects a separate structure. A small building on top of the RTB (separate from the main pump station) may need to be designed to house the bar screens, automated cleaning mechanisms, and motorized gates.

We have included modest additional time to remove and redesign gravity gates. The scope does not include time for a new building to be designed. If this is selected, an amendment will be required.

The scope assumes the existing bar screen at the canal will be utilized and a new screen will not be needed.

Pumping – Different pumping arrangements (types and capacities) will be explored during the BOD to maximize utility and minimize O&M. As part of the BOD, Tetra Tech will also evaluate including new

basin flushing pumps integral to the Nine Mile Pump Station. However, time is not budgeted to design flushing pumps and an amendment will be required should this be pursued.

Baffle Wall – Time has not been included to design a baffle wall to route flow to the west end of the structure should that be requested by EGLE. An amendment will be required if EGLE requires this component be added.

Disinfection – Time has been budgeted to evaluate in the BOD if the existing chlorine pumps can be used at the design flow rates. Should new chlorine pumps be needed, the design will be added through an amendment.

Chapaton Electrical Improvements – Should it be determined during the BOD that a new Nine Mile generator can also power a portion of Chapaton Pump Station, wiring and controls to allow this to occur will be designed. Similarly, evaluating new Chapaton Pump Station switchgear will be evaluated during the BOD but design costs will be deferred to a future date when a decision on scope and budget is made.

Architectural – Additional time (40 hours) has been included for revisions made by stakeholders (elected officials, neighbors, planning commissions, etc.).

Electric Vehicle Charging – This scope item will not be pursued within this authorization.

Connecting Chapaton Wet Well to the Proposed 9 Mile Wet Well – This scope item will not be pursued within this authorization.

TL Price Proposal

Macomb Nine Mile Pump Station

Submittal No. 162040

Item No.	Description	Labor Plan																				Subtotal	Total Price	Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
1	1. Mobilization																					1,425,502	47,335	6,332	1,472,837
2	2. Work of Design																					205,500	1,200	3,100	206,800
3	3. Construction																					2,832,835	47,335	6,332	2,886,502
4	4. Contingency																					1,425,502	47,335	6,332	1,472,837
5	5. Total																					5,911,141	143,305	21,100	6,075,546

EIGHT AND ONE-HALF MILE RELIEF DRAIN - 04/20/21 - 05/04/21

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance		
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%	Manning Slanece Astorino Astorino Astorino Astorino Astorino Astorino Astorino Downing Astorino Astorino Astorino	County of Macomb	\$ 399,364.21	Invoice #AR210129 - 2.8.21	Personnel/Operating Expenses 4th Quarter 2020			
			Cross Brothers Excavating	\$ 2,340.00	Invoice #5791 - 4.2.21	Canal Cleanout			
			Cross Construction Group	\$ 210,853.53	Invoice #WO19082 Est 5 - 4.28.21	Chapaton Lab and Mezzanine Renovation	\$ 206,811.03		
			De-Cal, Inc.	\$ 2,975.64	Invoice #WO9210440 - 3.23.21	Generator Repairs			
			DTE Energy	\$ 5,215.85	Invoice #RGLG4-LJ639 - 4.9.21	Monthly Electric - 2.8.21 - 4.8.21			
			Fishbeck	\$ 11,225.00	Invoice #399613 - 3.24.21	SRF Project Plan	\$ 193,737.48		
			Fishbeck	\$ 3,337.50	Invoice #399993 - 3.29.21	Chapaton Building Renovation through 3.19.21	\$ 8,282.15		
			JCI Jones Chemicals Inc.	\$ 4,151.24	Invoice #850047 - 4.1.21	Hypochlorite Solution - 4,587 Gallons			
			Nickel & Saph, Inc.	\$ 10,756.03	Invoice #211144 - 4.13.21	Insurance Renewal - 4.23.21 - 4.26.22			
			Tetra Tech, Inc.	\$ 29,242.09	Invoice #51718257 - 4.2.21	In-System Storage Devices through 3.26.21	\$ 297,304.59		
			Wade Trim	\$ 4,741.25	Invoice #2020780 - 4.27.21	Chapaton Disinfection - CCA	\$ 59,596.55		
			Weiss Construction	\$ 214,713.27	Invoice #PAY EST #5 - 4.25.21	Chapaton Disinfection Improvements	\$ 291,496.80		
			Total			\$ 898,915.61			



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

PREPARED BY	PHONE NUMBER	DATE
Houvenner	95966	4/7/2021
SET ID	POST DATE	
VP210415MFA		

PARENT RECORD INFORMATION			
VENDOR NAME	VENDOR NUMBER	ADDR CODE	INVOICE DATE
County of Macomb	V01085	06	2/8/2021
			INVOICE AMOUNT
			\$ 948,283.06

CHILD RECORD DETAIL INFORMATION										
GENERAL LEDGER			JOB LEDGER							
ORG KEY	OBJECT	COST CENTER	OBJECT	WORK ORDER NUMBER	DRAIN NAME	DESCRIPTION	AMOUNT	DIV	MISC	SEPK
8200166M	72100	CC0018	72100	WO18300	MIDDD	Personnel 4th Quarter	\$ 457,367.33	IFIN	MC1	
8200166M	99101	CC0018	99101	WO18300	MIDDD	Operating 4th Quarter	\$ 6,057.36	IFIN	MC1	
8200017M	72100	CC0004	72100	WO18006	8 1/2 Mile Relief	Personnel 4th Quarter	\$ 274,607.47	IFIN	MC1	
8200017M	99101	CC0004	99101	WO18006	8 1/2 Mile Relief	Operating 4th Quarter	\$ 124,756.74	IFIN	MC1	
8703018M	72100				SEMCWWDS	Personnel 4th Quarter	\$ 7,582.89	IFIN	MC1	
8703018M	99101				SEMCWWDS	Operating 4th Quarter	\$ 16,634.23	IFIN	MC1	
8210072M	72100				Martin	Personnel 4th Quarter	\$ 36,325.69	IFIN	MC1	
8210072M	99101				Martin	Operating 4th Quarter	\$ 24,951.35	IFIN	MC1	
TOTAL:							\$ 948,283.06			

COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
4th Quarter 2020 Personnel/Operating

Finance Manager:	BM/mh	Drain:	Multiple
Chief Engineer:		Project Balance:	N/A
Engineer(s):		Staff Date:	4/20/2021
Manager(s):		Board Date:	5/10/2021
Coordinator:		Select for Pay Date:	



Macomb County Finance Department
 120 N. Main Street, 2nd Floor
 Mt. Clemens, MI 48043

PUBLIC WORKS OFFICE
ATTN: BRUCE MANNING
21777 DUNHAM RD
CLINTON TOWNSHIP, MI 48036

Email Address:

Invoice Date
 02/08/2021

Invoice
 AR210129

REF DATE	DESCRIPTION	AMOUNT
02/08/2021	4TH QTR 20 CHAPOTON-PERSONNEL	248,563.98
02/08/2021	4TH QTR 20 CHAPOTON-OPERATING	166,342.32
02/08/2021	4TH QTR 20 WASTE WTR-PERSONNEL	527,319.40
02/08/2021	4TH QTR 20 WASTE WTR-OPERATING	6,057.36
	Charges	948,283.06
	Amount Due	948,283.06

***** PLEASE RETURN THIS PORTION WITH YOUR PAYMENT *****

Finance Department Contact Number:
 (586) 469-5251

Tax ID # / EIN Number:
 38-6004868

Payment Terms:
 Due Upon Receipt

Please email any questions about your account to:

Accounting@MacombGov.Org

Customer Number: DPWK BA

Please remit your payment to:

COUNTY OF MACOMB
 FINANCE DEPARTMENT
 120 NORTH MAIN STREET, 2nd FLOOR
 MOUNT CLEMENS, MI. 48043-5622

Invoice Number: AR210129

Invoice Date: 02/08/2021

Amount Due: \$948,283.06

NT12

4th Quarter Personnel and Operating Costs 2020

	Chapaton Personnel	Chapaton Operating	WW Personnel	WW Operating	3018	3018 OP	0072	0072 OP	Total
Invoice Totals	248,563.98	166,342.32	\$527,319.40	\$6,057.36					\$948,283.06
Due from 8.5 Mile	52,464.05		(52,464.05)						
Due from Martin			(10,402.91)				\$10,492.81		
Due from SECWWDS	(90.50)			\$6,995.21					
Due from SECWWDS	(120.76)			\$80.50					
Due from Martin						\$16,634.23	\$120.76		
Due from SECWWDS	(24,951.35)						\$24,951.35		
Due from Martin	(160.77)						\$760.77		
Due from SECWWDS	(907.18)			\$507.18				\$24,951.35	
Due from Martin									
Due from SECWWDS	\$0.00			\$0.00					
Totals	\$274,607.47	\$124,756.74	\$457,367.33	\$6,057.36	\$7,582.89	\$16,634.23	\$36,325.69	\$24,951.35	\$948,283.06

	Personnel	Internal Srv.
0166	72100	99101
0017	\$457,367.33	\$6,057.36
3018	\$274,607.47	\$124,756.74
0072	\$7,582.89	\$16,634.23
	\$36,325.69	\$24,951.35
total	\$775,883.38	\$172,399.68



ONESolution
ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/16/21
4. SET ID VP210416HA		5. POST DATE

PARENT RECORD INFORMATION		
6. VENDOR NAME (Check to be issued to) Cross Brothers Excavating	7. VENDOR NUMBER V30538	8. ADDR CODE 01
9. Invoice No (MAX = 16 CHARACTERS) 5791	10. Invoice Date 4/2/2021	11. Invoice Amount \$ 2,340.00

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger	Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
		14. Cost Center (CCNT)	15. Object							
A	8200017M	80126	80126	WO18006	8 1/2 Mile Relief	Services February 2021	\$ 2,340.00	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ **2,340.00** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	4/20/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	



C.B.X, INC.
13018 Gilbert Rd
Riley, MI 48041
810-392-3635
karlcbx@yahoo.com

BILL TO

MACOMB COUNTY DRAIN
COMMISSION
21777 DUNHAM RD
CLINTON TWP, MI 48036 U.S.

INVOICE # 5791

DATE 04/02/2021

DUE DATE 05/02/2021

TERMS Net 30

DATE	DESCRIPTION	QTY	RATE	AMOUNT
02/22/2021	MOVE EQUIPMENT TO AND FROM JOB SITE (PC78)	4	75.00	300.00
02/22/2021	MULCHING SLOPES WITH THE PC78	4	225.00	900.00
02/26/2021	DEBRIS CLEAN UP/LOAD OUT	9.50	120.00	1,140.00

CHAPATON PUMP STATION

BALANCE DUE

\$2,340.00

(8200017114)



ONESolution
 ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/30/21
4. SET ID VP210429MA		
5. POST DATE		

PARENT RECORD INFORMATION		
6. VENDOR NAME (Check to be issued to) Cross Construction Group	7. VENDOR NUMBER V081148	8. ADDR CODE 01
9. Invoice No (MAX = 16 CHARACTERS) WO19082 EST 5	10. Invoice Date 4/28/2021	11. Invoice Amount \$ 210,853.53

CHILD RECORD DETAIL INFORMATION			
General Ledger	Job Ledger	OPTIONAL	
		17. Secondary Reference (MAX = 16 CHARACTERS)	19. Amount
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object
A 8200017M	80126	CC0004	80126
B			
C			
D			
E			
F			
G			

23. Total: \$ **210,853.53**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
 Retainage recording of \$23,428.17. Total retained to date \$52,348.17

25. Finance Officer:	BIM/mh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	\$206,811.03; Includes \$52,348.17 Retained
27. Engineers:		32. Staff Date:	5/4/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	

**MACOMB COUNTY PUBLIC WORKS OFFICE
CONTRACTOR INVOICE COVER SHEET**

WORK ORDER NUMBER WO19082

PROJECT NUMBER WWS-2020-010

PROJECT NAME Chapaton Lab Relocation & Mezzaine Renovation

DRAINAGE DISTRICT 8 1/2 Mile Relief Drain Drainage District

CONTRACTOR NAME Cross Construction Group

INVOICE DATE 4/28/2021

INVOICE START DATE 4/1/2021

INVOICE END DATE 4/30/2021

ORIGINAL CONTRACT AMOUNT			\$ 667,777.00
CHANGE ORDER TOTAL			\$ 10,167.57
Change Order No. 1	Date Executed:	03/31/2021	\$ 4,508.19
Change Order No. 2	Date Executed:	04/28/2021	\$ 5,659.38
TOTAL REVISED CONTRACT AMOUNT			\$ 677,944.57
(includes all approved change orders only)			
TOTAL AMOUNT PREVIOUSLY INVOICED			\$ 260,280.02
TOTAL AMOUNT DUE THIS INVOICE			\$ 210,853.53
TOTAL BUDGET REMAINING			\$ 206,811.03
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)			

Contractor's Application for Payment

Owner:	<u>8 1/2 Mile Relief Drain Drainage District</u>	Owner's Project No.:	<u>WWS-2020-010</u>
Engineer:	<u>Fishbeck</u>	Engineer's Project No.:	<u>191498</u>
Contractor:	<u>Cross Construction Group</u>	Contractor's Project No.:	<u>BH-724</u>
Project:	<u>Chapaton Pump Station Lab Relocation & Mezzanine Renovation</u>		
Contract:	<u>Chapaton Pump Station Lab Relocation & Mezzanine Renovation</u>		
Application No.:	<u>005</u>	Application Date:	<u>4/28/2021</u>
Application Period:	<u>From 4/1/2021</u>	to	<u>4/30/2021</u>

1. Original Contract Price	\$ 667,777.00
2. Net change by Change Orders	\$ 10,167.57
3. Current Contract Price (Line 1 + Line 2)	\$ 677,944.57
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 523,481.72
5. Retainage	
a. <u>10%</u> X \$ <u>523,481.72</u> Work Completed	\$ 52,348.17
b. <u>0%</u> X \$ <u>54,365.88</u> Stored Materials	\$ -
c. Total Retainage (Line 5.a + Line 5.b)	\$ 52,348.17
6. Amount eligible to date (Line 4 - Line 5.c)	\$ 471,133.55
7. Less previous payments (Line 6 from prior application)	\$ 260,280.02
8. Amount due this application	\$ 210,853.53 ✓
9. Balance to finish, including retainage (Line 3 - Line 4)	\$ 154,462.85 ✓

Contractor's Certification


The undersigned Contractor certifies, to the best of its knowledge, the following:

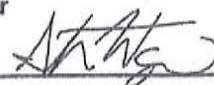

(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: Cross Construction Group

Signature:  **Date:** 4/28/2021

Recommended by Engineer		Approved by Owner	
By: <u>N/A</u>		By: 	
Title: _____		Title: <u>Engineer II</u>	
Date: _____		Date: <u>04/29/2021</u>	
Approved by Funding Agency			
By: <u>N/A</u>		By: 	
Title: _____		Title: <u>Operations & Flow Manager</u>	
Date: _____		Date: <u>04/29/2021</u>	

Record Retainage \$23,428.17

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner: 8 1/2 Mile Relief Drain Drainage District
Engineer: Fishbeck
Contractor: Cross Construction Group
Project: Chapaton Pump Station Lab Relocation & Mezzanine Renovation
Contract: Chapaton Pump Station Lab Relocation & Mezzanine Renovation

Owner's Project No.: WW5-2020-010
Engineer's Project No.: 191498
Contractor's Project No.: BH-724

Item No.	Description	Application Period: From		to		Application Date: 04/28/21		
		C	D	E	F	G	H	I
		Scheduled Value (\$)	(D + E) From Previous Application (\$)	Work Completed This Period (\$)	Materials Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
Original Contract								
1	Bonds	\$10,000.00	10,000.00	-	-	10,000.00	100%	-
2	Insurance	\$4,000.00	4,000.00	-	-	4,000.00	100%	-
3	Project Management	\$15,000.00	10,500.00	3,000.00	-	13,500.00	90%	1,500.00
4	Site Supervision	\$30,000.00	19,500.00	7,500.00	-	27,000.00	90%	3,000.00
5	Dumpsters	\$1,500.00	1,750.00	1,050.00	-	2,800.00	80%	700.00
6	Submittals	\$10,000.00	9,900.00	100.00	-	10,000.00	100%	-
7	Demolition	\$10,000.00	10,000.00	-	-	10,000.00	100%	-
8	Metal Stud Framing	\$4,000.00	4,000.00	-	-	4,000.00	100%	-
9	Doors & Hardware	\$2,000.00	1,800.00	200.00	-	2,000.00	100%	-
10	Gyp Board & FRP	\$2,500.00	2,500.00	-	-	2,500.00	100%	-
11	Ceiling Installation	\$1,500.00	1,500.00	-	-	1,500.00	100%	-
12	Painting	\$2,000.00	2,000.00	-	-	2,000.00	100%	-
13	Flooring	\$6,000.00	2,000.00	6,000.00	-	8,000.00	100%	-
14	Lab Casework	\$24,000.00	24,000.00	-	-	24,000.00	100%	-
15	Mechanical	\$20,000.00	20,000.00	-	-	20,000.00	100%	-
16	Electrical	\$8,000.00	8,000.00	-	-	8,000.00	100%	-
17	Plumbing	\$10,000.00	9,500.00	500.00	-	10,000.00	100%	-
18	Demolition & Abatement	\$30,000.00	27,000.00	3,000.00	-	30,000.00	100%	-
19	Concrete	\$3,000.00	3,000.00	-	-	3,000.00	100%	-
20	Masonry	\$8,000.00	-	8,000.00	-	8,000.00	100%	-
21	Structural Steel	\$17,000.00	-	17,000.00	-	17,000.00	100%	-
22	Metal Stud Framing	\$30,000.00	18,000.00	12,000.00	-	30,000.00	100%	-
23	Millwork Installation	\$22,000.00	-	22,000.00	-	22,000.00	100%	-
24	Glazing Installation	\$15,000.00	-	-	-	-	0%	13,000.00
25	Doors & Hardware	\$10,000.00	3,000.00	4,000.00	-	7,000.00	70%	3,000.00
26	Gyp Board & FRP	\$20,000.00	-	19,000.00	-	19,000.00	95%	1,000.00
27	Painting	\$7,500.00	-	3,750.00	-	3,750.00	50%	3,750.00
28	Ceiling Installation	\$2,000.00	1,000.00	1,000.00	-	1,000.00	50%	1,000.00
29	Lockers	\$4,000.00	-	2,000.00	-	2,000.00	50%	2,000.00
30	Kitchen Appliance Install	\$1,500.00	-	-	-	-	0%	1,500.00
31	Bathroom Accessories	\$2,500.00	-	-	-	-	0%	2,500.00
32	Visual Display Boards	\$2,000.00	-	1,500.00	-	1,500.00	75%	500.00
33	Corner Guard Installation	\$2,000.00	-	-	-	-	0%	2,000.00
34	Flooring	\$19,547.00	-	-	-	13,682.90	70%	5,864.10
35	Tile Installation	\$3,000.00	-	-	-	-	0%	3,000.00

Progress Estimate - Lump Sum Work

Owner: 8 1/2 Mile Relief Drain Drainage District
 Engineer: Fishbeck
 Contractor: Cross Construction Group
 Project: Chapaton Pump Station Lab Relocation & Mezzanine Renovation
 Contract: Chapaton Pump Station Lab Relocation & Mezzanine Renovation

Contractor's Application for Payment

Owner's Project No.: WWS-2020-010
 Engineer's Project No.: 191498
 Contractor's Project No.: BH-724

A Item No.	B Description	C Scheduled Value (\$)	D Work Completed (D + E) From Previous Application (\$)		E This Period (\$)	F Materials Currently Stored (not in D or E) (\$)	G Work Completed and Materials Stored to Date (D + E + F) (\$)	H % of Scheduled Value (G / C) (%)	I Balance to Finish (C - G) (\$)
			Application Period: From 04/01/21 to 04/30/21						
36	Roller Shade Installation	\$4,300.00	-	-	-	-	-	0%	4,300.00
37	Mechanical	\$75,000.00	26,250.00	37,500.00	37,500.00	-	63,750.00	85%	11,250.00
38	Electrical	\$55,000.00	33,000.00	11,000.00	11,000.00	-	44,000.00	80%	11,000.00
39	Plumbing	\$35,000.00	12,250.00	15,750.00	15,750.00	-	28,000.00	80%	7,000.00
40	Lutz Roofing	\$6,880.00	5,160.00	1,720.00	1,720.00	-	6,880.00	100%	-
41	Abel Electronics	\$51,683.00	-	-	-	40,682.98	40,682.98	79%	11,000.02
42	Macomb County IT	\$43,012.00	-	-	-	-	-	0%	43,012.00
43	Interior Environment	\$25,355.00	13,000.00	-	-	-	13,000.00	51%	12,355.00
44	Building Permit	\$10,000.00	4,748.00	315.00	315.00	-	5,063.00	51%	4,937.00
		Original Contract Totals \$	667,777.00 \$	286,358.00 \$	177,885.00 \$	54,365.88 \$	518,608.88 \$	78%	149,168.12 \$

SWORN STATEMENT

STATE OF MICHIGAN
 COUNTY OF

} S

Blair Ackman , being duly sworn, states the following:

Cross Construction Group is the contractor for an improvement to the following real property in
Macomb County, Michigan, described as follows:

Chapaton Lab & Mezzanine
 23001 E. 9 Mile Rd.
 St. Clair Shores,, MI 48080-

The following is a statement of each subcontractor and supplier and laborer, for whom payment of wages or fringe benefits and withholdings is due but unpaid, with whom the contractor has contracted for performance under the contract with the owner or lessee, and the amounts due to the persons as of the date of this statement are correctly and fully set forth opposite their names:

Name, Address and Phone Number of Subcontractor, Supplier or Laborer	Type of Improvement	Total Contract Price	Amount Already Paid	Amount Currently Owing	Balance To Complete
A&J Steel Fabrication LLC 4748 Keewadin Rd Clyde, MI 48049	SUBCONTRACTORS	6,115.00	.00	.00	6,115.00
Bell Electronics Co Inc 27201 Harper Avenue Saint Clair Shores, MI 48081	SUBCONTRACTORS	51,682.98	.00	.00	51,682.98
Blue Star, Inc. 21950 Hoover Warren, MI 48089	SUBCONTRACTORS	30,440.00	.00	30,440.00	.00
Brothers & Bricks LLC PO Box 249 New Hudson, MI 48165-0249	SUBCONTRACTORS	7,390.00	.00	.00	7,390.00
Continental Contracting Co. 23450 Telegraph Rd. Southfield, MI 48033	SUBCONTRACTORS	15,000.00	.00	.00	15,000.00
Continuum Services 23640 Research Drive Farmington, MI 48335 (248) 286-5200	SUBCONTRACTORS	135,060.00	.00	64,813.61	70,246.39
Detroit Technical Equipment C 1091 Centre Rd, Suite 100 Auburn Hills, MI 48326	SUBCONTRACTORS	24,559.14	24,559.14	.00	.00
Interior Environments 48700 Grand River Novi, MI 48374	SUBCONTRACTORS	26,012.40	.00	13,000.00	13,012.40
LaForce PO Box 10068 Green Bay, WI 54307	MATERIALS	10,895.00	360.91	.00	10,534.09

Name, Address and Phone Number of Subcontractor, Supplier or Laborer	Type of Improvement	Total Contract Price	Amount Already Paid	Amount Currently Owing	Balance To Complete
Lutz Roofing Company Inc 4721 22 Mile Road Shelby Township, MI 48317	SUBCONTRACTORS	6,880.00	.00	.00	6,880.00
Masters Millwork 30700 Stephenson Hwy Madison Heights, MI 48071	SUBCONTRACTORS	21,175.00	.00	10,000.00	11,175.00
Omega Floors 35370 Union Lake Rd. Harrison Twp, MI 48045 (586) 218-6800	SUBCONTRACTORS	15,805.00	.00	.00	15,805.00
Resurrection Carpentry.	SUBCONTRACTORS	65,372.00	11,025.00	22,062.50	32,284.50
Rochester Hills Contract Glazi 1155 Centre Drive Auburn Hills, MI 48236 (248) 852-6465	SUBCONTRACTORS	12,680.00	536.40	59.60	12,084.00
RSC Electrical, Inc. 43750 Garfield Rd. Clinton Twp, MI 48038 (877) 248-8400	SUBCONTRACTORS	62,872.00	.00	.00	62,872.00
Totals		491,938.52	36,481.45	140,375.71	315,081.36

The contractor has not procured material from, or subcontracted with, any person other than those set forth and owes no money for the improvement other than the sums set forth.*

I make this statement as the contractor or as CFO of the contractor to represent to the owner or lessee of the property and his or her agents that the property is free from claims of construction liens, or the possibility of construction liens, except as specifically set forth in this statement and except for claims of construction liens by laborers that may be provided under Section 109 of the Construction Lien Act, 1980 PA 497, MCL 570.1109.

WARNING TO OWNER OR LESSEE: AN OWNER OR LESSEE OF THE PROPERTY MAY NOT RELY ON THIS SWORN STATEMENT TO AVOID THE CLAIM OF A SUBCONTRACTOR, SUPPLIER OR LABORER WHO HAS PROVIDED A NOTICE OF FURNISHING OR A LABORER WHO MAY PROVIDE A NOTICE OF FURNISHING UNDER SECTION 109 OF THE CONSTRUCTION LIEN ACT, 1980 PA 497, MCL 570.1109 TO THE DESIGNEE OR TO THE OWNER OR LESSEE IF THE DESIGNEE IS NOT NAMED OR HAS DIED.

IF THIS SWORN STATEMENT IS IN REGARD TO A RESIDENTIAL STRUCTURE, ON RECEIPT OF THIS SWORN STATEMENT, THE OWNER OR LESSEE, OR THE OWNER'S OR LESSEE'S DESIGNEE MUST GIVE NOTICE OF ITS RECEIPT, EITHER IN WRITING, OR BY TELEPHONE, OR PERSONALLY, TO EACH SUBCONTRACTOR, SUPPLIER, AND LABORER WHO HAS PROVIDED A NOTICE OF FURNISHING UNDER SECTION 109 OR, IF A NOTICE OF FURNISHING IS EXCUSED UNDER SECTION 108 OR 108A, TO EACH SUBCONTRACTOR, SUPPLIER, AND LABORER NAMED IN THE SWORN STATEMENT. IF A SUBCONTRACTOR, SUPPLIER WHO HAS PROVIDED A NOTICE OF FURNISHING OR WHO IS NAMED IN THE SWORN STATEMENT MAKES A REQUEST, THE OWNER, LESSEE, OR DESIGNEE SHALL PROVIDE THE REQUESTER A COPY OF THE SWORN STATEMENT WITHIN 10 BUSINESS DAYS AFTER RECEIVING THE REQUEST.

Blair Ackman, CFO

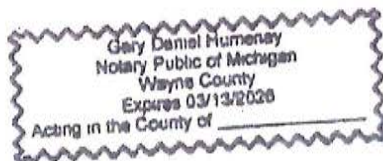


Deponent Signature

WARNING TO DEPONENT: A PERSON WHO GIVES A FALSE SWORN STATEMENT WITH INTENT TO DEFRAUD IS SUBJECT TO CRIMINAL PENALTIES AS PROVIDED IN SECTION 110 OF THE CONSTRUCTION LIEN ACT, 1980 PA 497, MCL 570.1110.

Subscribed and sworn to before me this

28th day of April 2021





Notary Public

County, Michigan

My Commission Expires: 3-13-2026

*Materials furnished by a contractor or a subcontractor out of his or her own inventory, and which has not been purchased specifically for the purpose of performing the contract, need not be listed.

CONTRACTOR'S DECLARATION
(To be attached to the Contractor's periodic Request for Payment)

Project Name: Chapaton Pump Station Lab Relocation & Mezzanine Renovation
Contract No.: WO19082
Contract Date: 12/8/2020
Contractor: Cross Construction Group
Owner: 8 1/2 Mile Relief Drain Drainage District

Certification Period (From the Date of the Contract to the Date of this Declaration) 4/30/2021

I hereby certify that I have not, during the above noted certification period, performed any work, furnished any material, sustained any loss, damage or delay for any reason, including soil conditions encountered or created, or otherwise done anything for which I shall ask, demand, sue for, or claim compensation from the Owner or its agents, in addition to the regular items set forth in the above noted Contract (and executed Change Orders thereto) executed between the Contractor and the Owner, except as the Contractor hereby claim for additional compensation and/or extension of time as described in previously submitted claim letters to the Owner dated:

Attached Summary, Dated _____

(Contractor to check this box if no claim letters are submitted to date)

CONTRACTOR

By: 
(Authorized Signature)

Name: Blair Ackman
(Print Name)

Title: CFU

Date: 4/28/2021

END OF SECTION 00 61 13.1

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CONTINUATION SHEET

AIA DOCUMENT A701

PAGE OF PAGES 2 of 2

IA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing contractor's signed certification is attached.

APPLICATION NO: 4/15/2021
APPLICATION DATE: 4/15/2021

tabulations below, amounts are stated to the nearest dollar.

PERIOD TO: 5/30/2021

see Column I on Contracts where variable retainage for line items may apply.

ARCHITECT'S PROJECT NO: BII-724

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		E THIS PERIOD	F MATERIALS STORED (NOT IN DOR E)	G TOTAL COMPLETED AND STORED TO DATE (D + E + F)	H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D - 1)	THIS PERIOD					
1	Planar Video Wall	\$40,032.98				\$40,032.98	\$40,032.98		\$4,003.30
2	Shipping	\$650.00				\$650.00	\$650.00		\$65.00
3	Pro Matrix Factory Install - Labor	\$4,700.00				\$0.00	\$0.00		\$0.00
4	Installation Cost	\$6,300.00				\$0.00	\$0.00		\$0.00
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
Total		\$51,682.98	\$0.00	\$0.00	\$0.00	\$40,682.98	\$40,682.98	\$0.00	\$4,068.30

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

! SEE Mark Behre Kanyan:

PACKING SLIP



PACK SLIP #	DATE	PAGE
PK-1191166	3/26/2021	1 of 2

SUPPLIER:
Planar Systems, Inc.
1195 NE Compton Drive
HILLSBORO, OR 97006
US
503 748 1100
Fax: 503 748 1244

BILL TO: 400285
Stampede Corporate (CPG)
EXERTIS
55 WOODRIDGE DRIVE
AMHERST, NY 14228
US

SHIP TO:
Abel Electronics
Receiving / PO 990235
586-777-8232
27201 Harper Avenue
PO 990235
SAINT CLAIR SHORES, MI 48081
US

Customer PO#	Sales Order #	Carrier Account #	Customer Ref	Carrier/ Mode of Delivery	
PO413400 	SO-1206788		R 8011T000001mZehQAE	SEE ORDER NOTES	
No. of Containers	Ship Weight	Delivery Terms	Terms of Sale	Packed By	
4	680 lbs	TPB	EXW	Doug Spotts	
Ln	Item Description	Rev	Qty Ordered	Qty Shipped	UM
3	935-0476-00 4-Output VC Option Fee for Additional 4-Output VCs		1	1 ✓	ea
4	750-2186-01 Assy Mfg, RPS, Sngle, 110/220V Remote Power Supply (RPS), input voltage range 100-240V, equipped with (1) Remote Power Supply Module (RPSM)		1	1 ✓	ea
5	902-0748-00 Power Supply, RPSM (1) Remote Power Supply Module (RPSM) for Remote Power Supply (RPS110 or RPS220). Required to add power redundancy to power supply. Sold per power supply.		1	1 ✓	ea
6	175-0882-00 Cable Assy,PWR,DC, 48V, 50FT 50-foot (15-meter) Primary Power Cable - to provide a 48V power connection from the Power Supply Module to the display.		1	1 ✓	ea
8	175-0753-01 Cable, CAT6, STP, 50ft/15m 50 foot (15m) 26AWG CAT6 STP Ethernet cable for video and control extension		6	6 ✓	ea
9	437-2289-00 Assy, BRKT, VERT, UX Vertical Spacer Bracket for MXHDU-L		6	6 ✓	ea
10	572-4308-00 Sht Mt, BRKT, STD, HORZ, MX55HDUL		8	8 ✓	ea
11	572-4315-00 Trim, Lft, Wall, LX_MX55HDU-L Cosmetic Trim for Matrix LX55HDU, MX55HDU-L to cover the Left edge of the LCD. 1 per row of the video wall. Landscape Only.		2	2 ✓	ea
12	572-4314-00 Trim, Rgt, Wall, LX_MX55HDU-L Cosmetic Trim for Matrix LX55HDU, MX55HDU-L to cover the Right edge of the LCD. 1 per row of the video wall. Landscape Only.		2	2 ✓	ea
13	572-4316-00 Trim, Top, Wall, LX_MX55HDU-L Cosmetic Trim for Matrix LX55HDU, MX55HDU-L to cover the Top edge of the LCD. 1 per column of the video wall. Landscape Only.		3	3 ✓	ea
14	572-4317-00 Trim, Btm, Wall, LX_MX55HDU-L Cosmetic Trim for Matrix LX55HDU, MX55HDU-L to cover the Bottom edge of the LCD. 1 per column of the video wall. Landscape Only.		3	3 ✓	ea
15	530-0952-00 Screw, M5X.8X8, BHCS, BLK, 25/bag		6	6 ✓	ea
16	530-1231-00 Screw, M4x0.7x5mm, 5/bag		10	10 ✓	ea
17	955-0790-00 Kit, Matrix G3 Accy Kit - US		1	1 ✓	ea
18	955-0807-00 Display Test Kit - US Matrix G3 Display Test Kit / PS - US		1	1 ✓	ea
20	998-0221-00 P, LX55U-L Clarity Matrix G3 LX55U 55 in. 1920x1080, 500 nit 3.7mm LCD video wall system. Includes 1 LCD module, necessary power supply modules, standard video controller electronics and EasyAxis mount. Landscape Only	I	6	6 ✓	ea
21	750-2172-05 VC4, 4xHDMI+DP In, 4xCAT6 Out 4-Out Video Controller, 4xHDMI + DP In, 4xCat6 Out	K	2	2 ✓	ea
22	175-0993-01 Cable Assy,PWR,DC,LOOP,8FT	A	5	5 ✓	ea

OLD DOMINION FREIGHT LINE, INC. (ODFL)

PO BOX 742296, - LOS ANGELES, CA 90074-2296 USA
(336) 889-5000 Visit us at WWW.ODFL.COM



2

Dest Trm	Orig Trm	Shipper B/L Number	Purchase Ord No	Type	Copy	CUSTOMER COPY	
DET	PDX	S01206788	PO413400				
D Car Cd	D Car Rev	ODFL Rev	D Car W/B No	Bill to Cd	Trl No	W/B Date	Waybill Number
				12966801	405587	3/26/21	0440611000

ABEL ELECTRONICS 27201 HARPER AVE SAINT CLAIR SHORES MI 48081			Dest I/L Car	PLANAR SYSTEMS 7210 NE EVERGREEN PKWY HILLSBORO OR 97124	Page No 1
			STAMPEDE PRESENTATION PRODUCT INC C/O NATIONAL TRAFFIC SERVICE INC 151 JOHN JAMES AUDUBON PKWY AMHERST NY 14228	Sec 7 SHP	
D Car Cd	D Car Rev	ODFL Rev	Ack No		
Waybill Number	D/Agt	D/Agt	Master Bill No		
04406110009					

Pieces	HM	Description	CLASS	Weight	AS Weight	Rate	Prepaid	Collect
4		HANDLING UNITS: 4 OF TYPE SKID ELECTRONIC GOODS 59" L X 30" W X 39" H Cnt: 3 36" L X 36" W X 36" H Cnt: 1 FUEL SURCHARGE Rate Clerk: TDB ODFL DET PHONE (248)-457-0498 ODFL DET TOLL-FREE (866)-333-0335	DISCOUNT ALLOWED 100	680		79.00% 32195		1729.5 2189.2 78.1

C.O.D.							
Ttl Pcs	Consignee Cd	Shipper	Tariff	Due ODFL(USD)	Ttl Weight	Ttl AS Wgt	

RECEIVED IN GOOD CONDITION EXCEPT AS NOTED		Driver:		CONTD.	
By:	Company:			Total Prepaid	Total Colle
Date:				CASH <input type="checkbox"/>	CHK <input type="checkbox"/>
Seal # (if Applc)				DELIVERY RECEIPT	

Inside Delivery
 Residential Delivery
 Lift Gate
 Other _____
 Sort & Seg - Pieces _____
 Shrink Wrap Intact Unless Otherwise Indicated



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/14/21
4. SET ID VPZ10415MA		
5. POST DATE		

6. VENDOR NAME (Check to be Issued to) De-Cal, Inc.	7. VENDOR NUMBER V59694	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) WO9210440	10. Invoice Date 3/23/2021	11. Invoice Amount \$ 2,975.64
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CHILD RECORD DETAIL INFORMATION									
Line	General Ledger			Job Ledger		OPTIONAL			
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV
A	8200017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Job #9210440 - Generator Rprs	\$ 2,975.64	GEN
B									
C									
D									
E									
F									
G									

23. Total: \$ **2,975.64**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	4/20/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	



DE-CAL, Inc.
 24659 Schoenherr Rd.
 Warren, MI 48089-4775
 Service Phone: 586-619-0281
 Service Fax: 586-486-5242

Service Invoice

Invoice #: WO9210440

Date: 03/23/2021

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: Mike Jablonski	Due Terms: 30DY
--------------------	---------------------------------	------------------------

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		See Attached	1.0000	2,975.640000	2,975.64	N

Notes:

See Work Order for Details

Chap generator

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: \$ 2,975.64

Service Report

Service Report No : 9210440-1



Date: March 04, 2021

Client P.O. #: N/A

HVAC Service

Ready to Invoice/Work Complete

Site:
Macomb Chapaton Pump station
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Client:
Macomb County Chaption
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Reason for Call:

gas pressure regulator for generator not working properly
be onsite at 8am

Description of Service:

3/4/21--Checked and found the gas regulator (to the generator)-having problems with the spring assembly and the vent line plugged. Ordered and picked up parts. Disassembled and reinstalled the 2" valve and piping. Replaced the spring with the (20" wc, red) proper spring range and adjusted it . The system is still having problems with incoming gas pressure, and the gas company is being called in.

Technician Work

Name	Date	Reg. hrs	Prem. hrs
Mike Jablonski	Mar 4, 2021	8	0
Tony Kleinsorge	Mar 4, 2021	7	0

Paperless Productivity™

TSSA#: 000000000000



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95337	3. DATE 4/22/21
4. SET ID		
5. POST DATE		
FSB Bill Pay 5-6-21		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be Issued to) DTE Energy	7. VENDOR NUMBER V01270	8. ADDR CODE 08	9. Invoice No (MAX = 16 CHARACTERS) RGLG4-LJ639
		10. Invoice Date 4/9/2021	11. Invoice Amount \$ 5,215.85

CHILD RECORD DETAIL INFORMATION									
General Ledger			Job Ledger		OPTIONAL			MISC	
12. Org Key	13. Object	14. Cost Center (CNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. Sep
A	8200017M	92101	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 2/8-3/8/21	\$ 8,340.64	GEN	0
B	8200017M	92101	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 2/8-3/8/21 (over payment)	\$ (13,468.50)	GEN	0
C	8200017M	92101	92101	WO18006	8 1/2 Mile Relief	Acct #9100-005-3785, 3-9-4/8	\$ 10,343.71	GEN	0
D									
E									
F									
G									

23. Total: \$ **5,215.85** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
2/8-3/8 \$8,340.64, 3/9-4/8 \$10,343.71 less overpayment Feb 2021 (\$13,468.50) = balance due \$5,215.85

25. Finance Officer:	BM/min	30. Drain: 8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance: N/A
27. Engineers:		32. Staff Date: 5/4/2021
28. Managers:		33. Board Date: 5/10/2021
29. Coordinator:		34. Select For Pay Date:



Payment Coupon

Empty rectangular box for coupon information

Account Number	910000053785
Due Date:	May 06, 2021
Total Due:	<i>FSB Payment</i> \$5,215.85

MACOMB COUNTY
MACOMB COUNTY DRAIN COMM
21777 DUNHAM RD
CLINTON TWP MI 48036-1005

RG194-LJ639
**Current monthly amt due*

Mail Payments to: *\$10,343.71*
DTE Energy
P.O. Box 740786
Cincinnati OH 45274-0786

Please detach and return coupon with account number on check. Agencies are not authorized to accept payment of this bill.

Account Information

Empty rectangular box for account information

MACOMB COUNTY
MACOMB COUNTY DRAIN COMM
21777 DUNHAM RD
CLINTON TWP, MI 48036

Account Number	9100-0005-3785
DTE-Energy Federal ID No.	38-3217752

Programs you are enrolled in:

SolarCurrents Program

How to contact us:

Power Outage	See Detail Charges
Billing Inquiry	1-734-397-4309

Please make any inquiry or complaint about this bill to DTE Energy before the Due Date.
DTE Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Important Information

Empty rectangular box for important information



Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 03/19/2021	-5,127.86
Payment(s) and Credit(s)	0.00
Remaining Balance	-5,127.86

Current Charges

Service Location	Item	Service Type	Rate	Bill Period	Amount
23001 E 9 Mile Rd	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	03/09 - 04/08/21	10,343.71
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$10,343.71

Amount Due on or before Due Date of 05/06/2021 \$5,215.85

Your current charges are due on May 6, 2021. A 2% late payment charge will be applied if paid after the due date.

Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 210001696465

Billing Period: 03/09/2021 through 04/08/2021

Days Billed: 31

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6698937	03/09	0.4A	03/17	0.4A	0.0	- 6400.000	0.0	P - Out-V
6698937	03/09	0.0A	03/17	0.0A	0.0	- 6400.000	0.0	P - Out-W
10056082	03/09	54.0A	04/08	61.7A	7.7	6,400.0000	49,280.0	P - In-V
10056082	03/09	76.2A	04/08	85.8A	9.6	6,400.0000	61,440.0	P - In-W
10056085	03/09	0.0A	04/08	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	03/09	0.0A	04/08	0.0A	0.0	6,400.0000	0.0	P - In-W
10098716	03/18	0.0A	04/08	0.0A	0.0	- 6400.000	0.0	P - Out-V
10098716	03/18	0.0A	04/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
Total KVARH							49,280.00	
Total KWH							61,440.00	

Invoice: 210001696465	Service Name: Chapaton Pumping Station	General Service Municipal Pumping-Net Metering Cat1
Item: 7004376662	Cycle: 05	

Billing Status Information

1	On-peak Billing Demand	1331	KW	ESTABLISHED	03/26/2021	12:30
3	65% High OP Bill Dmd June-Oct prec 11 mths	969	KW	ESTABLISHED	09/10/2020	11:30
8	Highest Single Billing Demand	4224	KW	ESTABLISHED	03/26/2021	04:30
A	Current PV High Monthly Demand	4224	KW	ESTABLISHED	03/26/2021	04:30
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	6380	KW	ESTABLISHED	07/11/2020	00:00
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	78	PCT			
	Total Number of days in the Billing Period	31	DAYS			
	Avg Kilowatthours Used Per Day This Period	1982	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1876	KWH			
	kWh percentage change from a year ago	6	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	61440	KWH			
	Net Inflow (In - Out)	61440	KWH			

Charges for 03/09/2021 through 04/08/2021

Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge	61,440	KWH	@ \$	0.0390000	Per Total KWH	2,396.16
Power Supply Non Capacity Charge	61,440	KWH	@ \$	0.0434500	Per Total KWH	2,669.57
Surcharges:						
Power Supply Cost Recovery Factor	61,440	KWH	@ \$	0.0032200	Per Total KWH	197.84
Sub Total:						5,263.57

Delivery Charges:

Service Charge						11.25
Distribution:						
Distribution Energy	61,440	KWH	@ \$	0.0386800	Per Total KWH	2,376.50
Surcharges:						
Nuclear Surcharge	61,440	KWH	@ \$	0.0008420	Per Total KWH	51.73
LIEAF Factor	2	MTR	@ \$	0.9100000		1.82
Other Delivery Surcharges						138.84
Sub Total:						2,580.14
Special Facilities Charge						2,500.00

Invoice Subtotal	10,343.71
Michigan State Sales Tax On Taxable Portion	0.00
Invoice Total	\$10,343.71

910000053785

00000512786-B

DTE

Payment Coupon

Account Number	910000053785
No Payment Due	
Credit Balance:	- \$5,127.86

MACOMB COUNTY
 MACOMB COUNTY DRAIN COMM
 21777 DUNHAM RD
 CLINTON TWP MI 48036-1005

** Monthly Charge \$8340.64
 (Pre-paid with last payment)*

DTE Energy
 P.O. Box 740786
 Cincinnati OH 45274-0786

Please detach and return coupon with account number on check. Agencies are not authorized to accept payment of this bill.

Account Information

MACOMB COUNTY
 MACOMB COUNTY DRAIN COMM
 21777 DUNHAM RD
 CLINTON TWP, MI 48036

Account Number	9100-0005-3785
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DTE-Energy Federal ID No.	38-3217752
---------------------------	------------

Programs you are enrolled in:

How to contact us:

Power Outage	See Detail Charges
Billing Inquiry	1-734-397-4309

Please make any inquiry or complaint about this bill to DTE Energy before the Due Date.
 DTE Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Important Information

DTE

Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 02/16/2021 22,289.87
Payment(s) and Credit(s) - 35,758.37
Remaining Balance *over payment* * -13,468.50

Current Charges

Service Location	Item	Service Type	Rate	Bill Period	Amount
23001 E 9 Mile Rd	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	02/08 - 03/08/21	8,340.64
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$8,340.64

Credit Balance - No Payment Due - \$5,127.86
Amount Due on or before Due Date of 04/12/2021 - \$5,127.86

Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 200332717774

Billing Period: 02/08/2021 through 03/08/2021

Days Billed: 29

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6698937	02/08	0.4A	03/08	0.4A	0.0	- 6400.000	0.0	P - Out-V
6698937	02/08	0.0A	03/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
10056082	02/08	49.3A	03/08	54.0A	4.7	6,400.0000	30,080.0	P - In-V
10056082	02/08	69.1A	03/08	76.2A	7.1	6,400.0000	45,440.0	P - In-W
10056085	02/08	0.0A	03/08	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	02/08	0.0A	03/08	0.0A	0.0	6,400.0000	0.0	P - In-W
Total KVARH							30,080.00	
Total KWH							45,440.00	

Invoice: 200332717774 Service Name: Chapaton Pumping Station

Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering Cat1

Billing Status Information

1	On-peak Billing Demand	292	KW	ESTABLISHED	03/01/2021	18:30
3	65% High OP Bill Dmd June-Oct prec 11 mths	969	KW	ESTABLISHED	09/10/2020	11:30
8	Highest Single Billing Demand	292	KW	ESTABLISHED	03/01/2021	18:30
A	Current PV High Monthly Demand	292	KW	ESTABLISHED	03/01/2021	18:30
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	6380	KW	ESTABLISHED	07/11/2020	00:00
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	83	PCT			
	Total Number of days in the Billing Period	29	DAYS			
	Avg Kilowatthours Used Per Day This Period	1567	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1302	KWH			
	kWh percentage change from a year ago	20	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	45440	KWH			
	Net Inflow (In - Out)	45440	KWH			

Charges for 02/08/2021 through 03/08/2021

Power Supply Charges:

Power Supply Energy:							
Power Supply Capacity Charge	45,440	KWH	@ \$	0.0390000	Per Total KWH	1,772.16	
Power Supply Non Capacity Charge	45,440	KWH	@ \$	0.0434500	Per Total KWH	1,974.37	
Surcharges:							
Power Supply Cost Recovery Factor	45,440	KWH	@ \$	0.0032200	Per Total KWH	146.32	
Sub Total:							3,892.85

Delivery Charges:

Service Charge							11.25
Distribution:							
Distribution Energy	45,440	KWH	@ \$	0.0386800	Per Total KWH	1,757.62	
Surcharges:							
Nuclear Surcharge	45,440	KWH	@ \$	0.0008420	Per Total KWH	38.26	
LIEAF Factor	2	MTR	@ \$	0.9100000		1.82	
Other Delivery Surcharges							138.84
Sub Total:							1,947.79
Special Facilities Charge							2,500.00

Invoice Subtotal

8,340.64

Michigan State Sales Tax On Taxable Portion

0.00

Invoice Total

\$8,340.64



ONESolution
 ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/5/21
4. SET ID VP210415MA		5. POST DATE

6. VENDOR NAME (Check to be issued to) Fishbeck		7. VENDOR NUMBER V44063	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 399613	10. Invoice Date 3/24/2021	11. Invoice Amount \$ 11,225.00
--	--	----------------------------	--------------------	---	-------------------------------	------------------------------------

CHILD RECORD DETAIL INFORMATION													
Line	General Ledger	12. Org Key	13. Object	14. Cost Center (CCNT)	Job Ledger	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22 Sep CK
A		8200017M	80138	CC0004		80138	WO19005	8 1/2 Mile Relief	Pjt #190051 through 3/19/21	\$ 11,225.00	GEN		
B													
C													
D													
E													
F													
G													

23. Total: \$ 11,225.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
 As Needed Services

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	\$193,737.48
27. Engineers:		32. Staff Date:	4/20/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	

**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	3/24/2021
INVOICE START DATE	2/20/2021
INVOICE END DATE	3/19/2021
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	\$ 150,688.52
TOTAL AMOUNT DUE THIS INVOICE	\$ 11,225.00
TOTAL BUDGET REMAINING	\$ 193,737.48
(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@fshbeck.com
 616.575.3824
 Federal ID No: 38-1841857 | incorporated

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

Invoice : 399613
Invoice Date : 3/24/2021
Project : 190051
Project Name : Macomb Co PW/8.5 As-needed
 Engineering
Bill Term : 1

For Professional Services Rendered Through 3/19/2021

WO19005

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1 - Genral As Needed	43,912.61	43,912.61	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	5,250.00	5,250.00	0.00	0.00	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	5,678.59	1,821.41	1,821.41	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	130,102.27	19,071.73	18,579.73	492.00
<i>Rate Labor</i>		492.00			
1.P - Task 1p - SRF 5685-01 Project Plan Amendment	24,500.00	20,019.00	15,214.00	4,481.00	10,733.00
<i>Rate Labor</i>		10,733.00			

Project: 190051 - Macomb Co PW/8.5 As-needed Engineering

Invoice: 399613

Current Billings	<u>11,225.00</u>
Amount Due This Bill	11,225.00

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

Rate Labor

Class	Hours	Rate	Amount
Senior Engineer	3.00	164.0000	492.00
Total Rate Labor			492.00

1.P - Task 1p - SRF 5685-01 Project Plan Amendment

Rate Labor

Class	Hours	Rate	Amount
Production Support	14.00	70.0000	980.00
Senior Engineer	15.50	164.0000	2,542.00
	15.00	130.0000	1,950.00
Total Senior Engineer	30.50		4,492.00
Senior Engineering Specialist	3.50	136.0000	476.00
Staff Engineer	43.50	110.0000	4,785.00
Total Rate Labor			10,733.00

Total Bill Task: 1.P - Task 1p - SRF 5685-01 Project Plan Amendment

10,733.00

Total Project: 190051 - Macomb Co PW/8.5 As-needed Engineering

11,225.00



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

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

VP20415MA

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be Issued to)	11. Invoice Amount
Fishbeck	3,337.50
7. VENDOR NUMBER	16. Invoice Date
V44063	3/29/2021
8. ADDR CODE	19. Amount
01	\$ 3,337.50

CHILD RECORD DETAIL INFORMATION										
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	15. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22 Sep CK
A	8200017M	80138	80138	WO19082	8 1/2 Mile Relief	Pjt #191498 thru 3/19	\$ 3,337.50	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ 3,337.50

REV 09/2016

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Chapaton Building Renovation

25. Finance Officer: _____ BM/mh

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: _____

30. Drain: _____ 8 1/2 Mile Relief

31. Project Balance: _____ \$8,282.15

32. Staff Date: _____ 4/20/2021

33. Board Date: _____ 5/10/2021

34. Select For Pay Date: _____



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 : 399993
 Invoice Date : 3/29/2021
 Project : 191498
 Project Name : Macomb Co PW/Chapaton Bldg
 Renovation
 Bill Term : 1

For Professional Services Rendered Through 3/19/2021

WO19082 WWS-2019-016

Fee	% Complete	Billings		
		To Date	Previous	Current
105,100.00	92.12	96,817.85	93,480.35	3,337.50
			Current Billings	3,337.50
			Amount Due This Bill	3,337.50

<u>Rate Labor Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Engineer	1.50	130.0000	195.00
Production Support	0.50	70.0000	35.00
	6.00	82.0000	492.00
Total Production Support	6.50		527.00
Senior Architect	7.50	155.0000	1,162.50
Senior Engineer	8.00	164.0000	1,312.00
Technician	1.50	94.0000	141.00
		Total Rate Labor	3,337.50
Total Bill Task: 191498 - Macomb Co PW/Chapaton Bldg Renovation			3,337.50

Total Project: 191498 - Macomb Co PW/Chapaton Bldg Renovation

3,337.50



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	4/7/21
4. SET ID		
6. POST DATE		
VP210412MUA		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be Issued to)	7. VENDOR NUMBER	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date
JCI JONES CHEMICALS INC	V65297	850047	4/1/2021
		11. Invoice Amount	4,151.24

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger	Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
		13. Object	14. Cost Center (CCNT)							
A	8200017M	72650	CC0004	WO18006	8 1/2 Mile Relief	Order #631031; 4/1/21	\$ 4,151.24	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ 4,151.24

REV 09/2016

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: _____

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: _____

30. Drain: 8 1/2 Mile Relief

31. Project Balance: N/A

32. Staff Date: 4/20/2021

33. Board Date: 5/10/2021

34. Select For Pay Date: _____



www.jcichemicals.com

INVOICE

Inv Date	Invoice #
04/01/2021	850047
Date Shipped	Order/BOL #
04/01/2021	631031

*** ORIGINAL ***
 JCI JONES CHEMICALS, INC..
 RIVERVIEW BRANCH LOCATION
 18000 PAYNE AVENUE
 RIVERVIEW, MI 48192
 Phone: (734) 283-0677
 Fax: (734) 283-0979
 email: cs@jcichem.com

Customer Number
 21543215

S MACOMB COUNTY
 O ATTN: ACCTS PAYABLE
 L 23001 9 MILE ROAD
 D Saint Clair Shores, MI 48080-
 T USA
 O

S ID#: 1
 H CHAPATON PUMPING STATION
 I 23001 NINE MILE RD
 P ST CLAIR SHORES, MI 48080-
 T USA
 O

Customer PO #	FOB Remark	Freight Terms	Sales ID
VBL-CHRIS BENDA	Destination	Delivered	NORTH
Release #	Ship Via	Terms	Due Date
	Harold Marcu	N 30	05/01/2021
Discount Due Date	5/1/2021		
Units	Package	Product Name	Total Quantity
4,587.00	1 Gal Bulk	HYPPOCHLORITE SOLUTION, SS150 1201-001 BULK (\$85 Stop Fee) (+ fsc)	4,587.0000/Gal
			0.9000 /Gal
			4,128.30
General Remarks:		<> EMAIL INVOICE TO: michelle.houvener@macombgov.org <> .OUTSIDE CARRIER: MARCUS NET WEIGHT: 46400 FSC: \$22.94	
		Fuel Surcharge	22.94

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Total: **4,151.24**

Remit To: JCI Jones Chemicals, Inc.
 MSC# 729
 PO BOX 830674
 Birmingham, AL 35283-0674 USA

PLEASE PAY
 THIS AMOUNT





ONESolution

ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/12/21
4. SET ID VP210415HA		
5. POST DATE		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to) Nickel & Saph, Inc.	7. VENDOR NUMBER V06850	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 21144
		10. Invoice Date 4/13/2021	11. Invoice Amount \$ 197,864.00

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger			Job Ledger		OPTIONAL				
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC
A	8200017M	91102	CC0004	91102	WO18006	8 1/2 Mile Relief	Acct #MACO-17, 4/26/21-9/26/21	\$ 4,481.65	GEN	
B	8200017M	12301	CC0004	12301	WO18006	8 1/2 Mile Relief	Acct #MACO-17, 9/27/21-4/26/22	\$ 6,274.38	GEN	0
C	8200072M	91102				Martin	Acct #MACO-17, 4/26/21-9/26/21	\$ 546.15	GEN	0
D	8200072M	12301				Martin	Acct #MACO-17, 9/27/21-4/26/22	\$ 764.60	GEN	0
E	8200166M	91102	CC0018	91102	WO18300	MIDDD	Acct #MACO-17, 4/26/21-9/26/21	\$ 77,415.51	GEN	0
F	8200166M	12301	CC0018	12301	WO18300	MIDDD	Acct #MACO-17, 9/27/21-4/26/22	\$ 108,381.71	GEN	0
G										

23. Total: \$ **197,864.00**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Excess Liability Insurance with Terrorism Addendum 4/26/2021 - 4/26/2022

25. Finance Officer:	8 1/2 Mile; Martin; MIDDD
26. Chief Deputy:	N/A
27. Engineers:	4/20/2021
28. Managers:	4/12/2021
29. Coordinator:	

Nickel & Saph, Inc.
 P. O. Box 46907
 Mt. Clemens, MI 48046-6907
 Phone: 586-463-4573

INVOICE NO. 21144		Page 1
ACCOUNT NO.	CSR	DATE
MACO-17	AJ	04/12/2021
Commercial Application		
POLICY #		
2902101-03		
EFFECTIVE	EXPIRATION	BALANCE DUE ON
04/26/2021	04/26/2022	04/26/2021

Macomb County Intra-County
 Drains Drainage Districts
 21777 Dunham Road
 Clinton Twp., MI 48036

Item #	Eff Date	Trn Type	Description	Amount
74135	04/26/21	MEM PCKG	Annual Liability Premium	\$192,691.00
74136	04/26/21	MEM PCKG	Terrorism Risk Insurance	\$5,173.00
Invoice Balance:				\$197,864.00

Thank you.

Chapter 20
Insurance Cost Breakdown
April 26, 2021 Renewal

DRAIN NAME	2021 PERCENT	PORTION OF INSURANCE
Eight Half Mile Relief	5.436%	\$ 10,756.03
Martin Sanitary Diversion	0.662%	\$ 1,310.75
MIDDD	93.901%	\$ 185,797.22

Insurance bill \$ 197,864.00

*** After an analysis of the 2020 expenses, other drain's portions were minimal and insignificant

MIDDD Costs	
Liability	\$ 185,797.22
Third-Party Administrator	\$ 1,500.00
Underground Infrastructure	\$ 17,800.00
MIDDD Total Cost	\$ 205,097.22

		91102	12301
8 1/2 Mile	10756.03	4481.65	6274.38
Martin	1310.75	546.15	764.60
MIDDD	185797.22	77,415.51	108,381.71



ONESolution
 ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

Mark A. Hackel
 County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/6/21
4. SET ID VP210415MA		5. POST DATE

6. VENDOR NAME (Check to be issued to) Tetra Tech, Inc.	7. VENDOR NUMBER V16060	8. ADDR. CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 51718257	10. Invoice Date 4/2/2021	11. Invoice Amount \$ 29,242.09
--	----------------------------	---------------------	---	------------------------------	------------------------------------

PARENT RECORD INFORMATION				CHILD RECORD DETAIL INFORMATION						
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
A	8200017C	80138	80138	WO19004	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 3/26/21	\$ 29,242.09	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ 29,242.09
 REV 09/2016

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
 In-System Storage Devices - MEDC GRANT BALANCE \$550,526.92

25. Finance Officer:	BIM/rmh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	\$297,304.59
27. Engineers:		32. Staff Date:	4/20/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	

Chapaton RTB Canal Upgrades

Invoice #	Date	Amount
Wade Trim - Chapaton Canal Upgrades Contract Value (with Approved Change Orders) \$1,387,874		
M2014218	WADE TRIM 4/1/19	\$27,661.89
M2014455	WADE TRIM 4/26/19	\$45,574.73
M2014760	WADE TRIM 5/31/19	\$123,741.89
M2015047	WADE TRIM 7/1/19	\$82,296.39
M2015870	WADE TRIM 9/24/19	\$89,256.89
M2015339	WADE TRIM 7/30/19	\$81,989.55
M2015602	WADE TRIM 8/28/19	\$78,710.44
2016150	WADE TRIM 11/1/19	\$140,190.80
2016457	WADE TRIM 12/5/19	\$131,501.95
2016836	WADE TRIM 1/3/20	\$63,603.78
2017103	WADE TRIM 1/31/20	\$96,050.13
2017374	WADE TRIM 2/28/20	\$120,258.91
2017671	WADE TRIM 3/27/20	\$100,077.90
2017951	WADE TRIM 4/29/20	\$58,377.75
2018187	WADE TRIM 6/1/20	\$8,312.67

Jacob - Odor Evaluation Study Contract Value \$68,639

Inv #1	JACOBS	4/16/20	\$59,892.00
Inv #2	JACOBS	5/14/20	\$8,747.00

Tetra Tech - In-System Storage Contract Value (with Approved Change Orders) \$1,430,533

51471309	TETRA TECH	8/2/19	\$5,891.00	
51486824	TETRA TECH	9/12/19	\$9,346.50	
51519169	TETRA TECH	11/14/19	\$105,806.32	
51532937	TETRA TECH	12/18/19	\$60,288.70	\$3,000,000.00
51533040	TETRA TECH	12/19/19	\$23,104.82	-\$1,247,605.67
51540373	TETRA TECH	1/10/20	\$60,213.92	-\$68,639.00
51548755	TETRA TECH	1/31/20	\$25,087.35	-\$1,430,533.00
51561487	TETRA TECH	3/4/20	\$37,671.68	\$253,222.33 Balance of Grant less existing contracts
51571567	TETRA TECH	4/2/20	\$42,241.43	
51583201	TETRA TECH	4/24/2020	\$17,286.00	
51597243	TETRA TECH	6/5/20	\$13,300.51	
51608770	TETRA TECH	7/6/20	\$70,565.00	
51618840	TETRA TECH	8/3/20	\$69,131.63	
51628645	TETRA TECH	8/28/20	\$86,908.25	
51644958	TETRA TECH	9/30/20	\$81,802.79	
51658188	TETRA TECH	10/30/20	\$54,718.75	
51672316	TETRA TECH	12/3/20	\$102,559.50	
51682605	TETRA TECH	12/30/20	\$91,669.80	
51695239	TETRA TECH	1/22/21	\$99,504.25	
51704530	TETRA TECH	2/25/21	\$46,888.12	
51718257	TETRA TECH	4/2/21	\$29,242.09	

Wade Trim Invoiced To Date	\$1,247,605.67
Jacobs Invoiced To Date	\$68,639.00
Tetra Tech Invoiced To Date	\$1,133,228.41
Balance of \$3M State Grant Remaining:	\$550,528.92

Wade Pjt Balance	\$140,268.33
JACOBS PJT Balance	\$0.00
Tetra Tech Pjt Balance	\$297,304.59

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	WO19004	
PROJECT NUMBER	WWS-2019-003	(Tetra Tech# 200-16347-19001)
PROJECT NAME	In-System Storage Devices	
DRAINAGE DISTRICT	Eight and One-Half Mile Relief Drain Drainage District	
CONSULTANT NAME	Tetra Tech of Michigan	
INVOICE DATE	4/2/2021 (INVOICE 51718257)	
INVOICE START DATE	2/20/2021	
INVOICE END DATE	3/26/2021	
ORIGINAL CONTRACT AMOUNT	\$	481,098.00
CHANGE ORDER TOTAL	\$	949,435.00
Change Order No. 1	\$	949,435.00
Change Order No. 2		
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	1,430,533.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	1,103,986.32
TOTAL AMOUNT DUE THIS INVOICE	\$	29,242.09
TOTAL BUDGET REMAINING	\$	297,304.59
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		



Tetra Tech, Inc.
 424 Lewis Hargett Cir.
 Ste. 110
 Lexington, KY 40503
 (859) 223-8000

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
 OFFICE OF PUBLIC WORKS
 COMMISSIONER
 21777 DUNHAM RD
 PO BOX 806
 CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51718257
INVOICE DATE: 04/02/2021
SERVICES THROUGH: 03/26/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

ESA dated 10July 2019

Client Contact: Vince Astorino. Email vincent.astorino@macombgov.org

PROFESSIONAL SERVICES:

Project Number	200-16347-19001	In-System Storage Devices			
Top Task	01D	Basis of Design			
EMPLOYEE		TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Voss, Justin D.		Project Engineer 1	1.00	\$155.00	\$155.00
TOTAL LABOR			1.00		\$155.00
			SUBTOTAL		\$155.00
			Total Top Task# 01D		\$155.00
Top Task	02A	Project Management / Design			
EMPLOYEE		TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Rubel, Brian M.		Program Manager	8.00	\$225.00	\$1,800.00
TOTAL LABOR			8.00		\$1,800.00
			SUBTOTAL		\$1,800.00
			Total Top Task# 02A		\$1,800.00
Top Task	02B	Design			
EMPLOYEE		TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
D'Isabella, Linda A.		Architect	1.00	\$150.00	\$150.00
Geerlings, Eric P.		Project Engineer 1	78.50	\$155.00	\$12,167.50
Graf, Mitchell J.		Project Manager 2	0.75	\$200.00	\$150.00
Johnston, Jeffrey		Engineer 2	2.00	\$115.00	\$230.00
Kaliman, Roger G.		Sr Engineer 1	1.00	\$180.00	\$180.00
Lopez Lopez, Daniela S.		Engineer 3	13.50	\$125.00	\$1,687.50
Melling, Vickie L.		CAD Technician 3	1.00	\$80.00	\$80.00
Newman, Thomas S.		Architect 2	4.00	\$137.00	\$548.00
Nolta, Michael C.		Project Administrator	1.00	\$90.00	\$90.00
Paison, William A.		Sr Engineer 1	2.00	\$215.00	\$430.00
Rojas, Jeremias D.		CAD Designer	8.00	\$90.00	\$720.00
Sissoko, Moussa D.		Project Engineer 2	0.50	\$200.00	\$100.00
Tervo, Jeffrey A.		CAD Technician 2	2.00	\$140.00	\$280.00
TOTAL LABOR			115.25		\$16,813.00

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
 OFFICE OF PUBLIC WORKS
 COMMISSIONER
 21777 DUNHAM RD
 PO BOX 806
 CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51718257
INVOICE DATE: 04/02/2021
SERVICES THROUGH: 03/26/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

			SUBTOTAL	\$16,813.00	
OTHER DIRECT CHARGES	TYPE		CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
FEDERAL EXPRESS CORPORATION	Shipping - Overnight				\$37.43
UNITED PARCEL SERVICE INC	Postage/Shipping				\$9.66
TOTAL OTHER DIRECT CHARGES					\$47.09
			SUBTOTAL		\$47.09
			Total Top Task# 02B		\$16,860.09
Top Task	02BS_ECT	Design - Subcontractor ECT			
SUBCONTRACTOR		TYPE			CURRENT AMOUNT
ENVIRONMENTAL CONSULTING & TECHNOLOGY INC		Subcontractor-External			\$5,195.00
TOTAL SUBCONTRACTOR CHARGES					\$5,195.00
			SUBTOTAL		\$5,195.00
			Total Top Task# 02BS_ECT		\$5,195.00
Top Task	02BS_FKE	Design - Subcontractor FKE			
SUBCONTRACTOR		TYPE			CURRENT AMOUNT
FK ENGINEERING ASSOCIATES		Subcontractor-External			\$3,417.00
TOTAL SUBCONTRACTOR CHARGES					\$3,417.00
			SUBTOTAL		\$3,417.00
			Total Top Task# 02BS_FKE		\$3,417.00
Top Task	02BS_FTCH	Design - Subcontractor FTCH			
SUBCONTRACTOR		TYPE			CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External			\$1,150.00
TOTAL SUBCONTRACTOR CHARGES					\$1,150.00
			SUBTOTAL		\$1,150.00
			Total Top Task# 02BS_FTCH		\$1,150.00
Top Task	02B_TCI	Design			
EMPLOYEE	TITLE		CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Nolta, Michael C.	Project Administrator		5.00	\$90.00	\$450.00
Tremblay, Simon	Sr Engineer I&C		1.00	\$215.00	\$215.00
TOTAL LABOR			6.00		\$665.00
			SUBTOTAL		\$665.00
			Total Top Task# 02B_TCI		\$665.00
			Total Project# 200-16347-19001		\$29,242.09

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
OFFICE OF PUBLIC WORKS
COMMISSIONER
21777 DUNHAM RD
PO BOX 806
CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51718257
INVOICE DATE: 04/02/2021
SERVICES THROUGH: 03/26/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

TOTAL AMOUNT DUE THIS INVOICE: \$29,242.09

Gross Contract Summary	
Contract Amount	\$1,430,533.00
Previously Billed	\$1,103,986.32
Current Billing	\$29,242.09
Total Billed to Date	\$1,133,228.41
Contract Balance Remaining	\$297,304.59

REMIT PAYMENT TO:
TETRA TECH, INC.
PO BOX 911967
DENVER, CO 80291-1967

MP



Environmental Consulting & Technology, Inc.

3701 Northwest 98th Street
Gainesville, FL 32606 - 352-332-0444

ACK

TETRA TECH OF MICHIGAN
710 AVIS DRIVE
STE 100
ANN ARBOR, MI 48108

Invoice #: 211009
Invoice Date: 2/22/2021
Project: 190509
Project Name: MACOMB IN-SYS STRGE DEVICE-LANDA
Fed ID: 59-2921038
Terms: NET 10 DAYS

Attention: BRIAN RUBEL P E

Client Ref: TT PN - 200-16347-19001-1

For Professional Services Rendered through: 1/29/2021
EMAIL INVOICE TO BRIAN.RUBEL@TETRATECH.COM

P.O. 1166619:2

Phase Code / Name	Phase Fee	Previous Amount	Current Amount	% Complete	Total Fee Earned
0100 -- STUDY	23,068.00	5,835.00	0.00	25.29	5,835.00
0200 -- WELSH CONSTR DRAWINGS	42,750.00	34,200.00	4,770.00	91.16	38,970.00
0300 -- BEACONFIELD CONSTR DRAWINGS	7,775.00	6,220.00	425.00	85.47	6,645.00
Total Fee:	73,593.00				

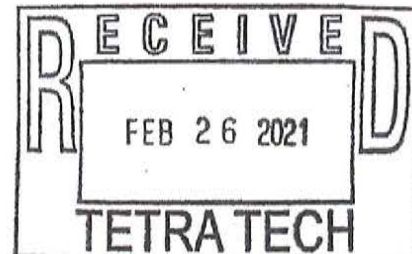
Total Fee Earned To Date	51,450.00
Less Previous Billings	46,255.00
Amount Due this Invoice	5,195.00

129566

200-16347-19001.02BS-ECT
Sub. EXT
200 IEW ATT

Project Manager: PATRICK J. JUDD
Billings: 000596

OK to pay when paid
B. Rubel
2/20/21





FK Engineering Associates
 30425 Stephenson Hwy
 Madison Heights, MI 48071
 (248) 817-2946

Tetra Tech
 Brian Rubel
 710 Avis Drive - Suite 100
 Ann Arbor, MI 48108

INVOICE

Invoice Date: 02/23/21
 Total Amount: \$3,417.00
 Number: 19-102-011
 Invoice Period: 01/10/21 - 02/13/21
 PO Number: 116682612
 Project Code: 19-102
 Project: Macomb In-Line Storage

INVOICE SUMMARY

Description	Amount
Task 2 - Design Phase	\$3,417.00

Description	Total Budget	Remaining Budget (\$)	Prior Billing (\$)	This Invoice (\$)
Task 1 - Study Phase	\$15,000.00	\$4,896.15	\$10,103.85	--
Task 2 - Design Phase	\$68,000.00	\$937.08	\$63,645.92	\$3,417.00
	--	--	--	--
BUDGET TOTALS	\$83,000.00	\$5,833.23	\$73,749.77	\$3,417.00
TOTAL AMOUNT DUE				\$3,417.00

Remit payment to:
 30425 Stephenson Hwy, Madison Heights, MI 48071
 Terms: Due upon receipt or per contract

OK to pay when paid
B. Rubel
3/8/21

#184671
200-16347-19001.02BS-FKE
SUB-EXT
200 FEW AA





FK Engineering Associates
 30425 Stephenson Hwy
 Madison Heights, MI 48071
 (248) 817-2946

INVOICE

Invoice Date: 02/23/21
 Total Amount: \$3,417.00
 Number: 19-102-011
 Invoice Period: 01/10/21 - 02/13/21
 PO Number:
 Project Code: 19-102
 Project: Macomb In-Line Storage

Tetra Tech
 Brian Rubel
 710 Avis Drive - Suite 100
 Ann Arbor, MI 48108

INVOICE DETAILS

Source	Date	Code	Hrs / Qnt	Rate	Amount
Professional Fees					
Margaret O'Reilly	01/11/21	09-Administrative Assistant	0.25	\$55.00	\$13.75
Nicholas Kacynski	01/11/21	04-Project Engineer/Geologist	1.00	\$112.00	\$112.00
Nicholas Kacynski	01/12/21	04-Project Engineer/Geologist	2.50	\$112.00	\$280.00
Nicholas Kacynski	01/13/21	04-Project Engineer/Geologist	6.00	\$112.00	\$672.00
Zachary Carr	01/13/21	02-Principal Engineer/Officer	2.00	\$145.00	\$290.00
Nicholas Kacynski	01/14/21	04-Project Engineer/Geologist	5.00	\$112.00	\$560.00
Nicholas Kacynski	01/15/21	04-Project Engineer/Geologist	4.00	\$112.00	\$448.00
Zachary Carr	01/15/21	02-Principal Engineer/Officer	2.00	\$145.00	\$290.00
Nicholas Kacynski	01/18/21	04-Project Engineer/Geologist	1.50	\$112.00	\$168.00
Zachary Carr	01/18/21	02-Principal Engineer/Officer	2.00	\$145.00	\$290.00
Margaret O'Reilly	01/19/21	09-Administrative Assistant	0.25	\$55.00	\$13.75
Nicholas Kacynski	01/21/21	04-Project Engineer/Geologist	1.00	\$112.00	\$112.00
Ava Riley	01/29/21	09-Administrative Assistant	0.25	\$55.00	\$13.75
Ava Riley	02/01/21	09-Administrative Assistant	0.25	\$55.00	\$13.75
Nicholas Kacynski	02/12/21	04-Project Engineer/Geologist	1.25	\$112.00	\$140.00
Task 2 - Design Phase			29.25		\$3,417.00
Professional Fees			29.25		\$3,417.00
TOTAL FEES/EXPENSES			--		\$3,417.00

ACH

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: Brian Rubel PE
 Tetra Tech Mps
 710 Avis Drive Suite 100
 Ann Arbor, MI 48108
 United States

Invoice: 398920
 Invoice Date: 2/24/2021
 Project: 200732
 Project Name: Macomb Co PW/In-system Storage
 Design Phase
 Bill Term: 1

For Professional Services Rendered Through 2/19/2021

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1C - 8.5 Mile Utility Survey	96,524.00	44,936.20	52,217.80	51,587.80	630.00
Rate Labor		630.00			

Current Billings 630.00
 Amount Due This Bill 630.00

103976

200-16347-19001.02BS-FTCH

sub-ext

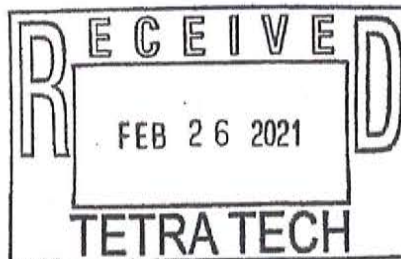
200 LEW AA

P.O. 1166522-5

OK to pay

B. Rubel

2/26/21



1 - Task 1C - 8.5 Mile Utility Survey

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	3.50	130.0000	455.00
	1.00	175.0000	175.00
Total Senior Engineer	4.50		630.00
		Total Rate Labor	630.00

Total Bill Task: 1 - Task 1C - 8.5 Mile Utility Survey

630.00

Total Project: 200732 - Macomb Co PW/In-system Storage Design Phase

630.00

ACH

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

P.O. 1166522:5

Attention: Brian Rubel PE
 Tetra Tech Mps
 710 Avis Drive Suite 100
 Ann Arbor, MI 48108
 United States

Invoice : 399551
 Invoice Date : 3/24/2021
 Project : 200732
 Project Name : Macomb Co PW/In-system Storage Design Phase
 Bill Term : 1

For Professional Services Rendered Through 3/19/2021

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1C - 8.5 Mile Utility Survey	96,524.00	44,306.20	52,737.80	52,217.80	520.00
Rate Labor		520.00			
					520.00
					520.00

103976

200 - 16347 - 19001 - 02BS - FTCH
 SUB - EXT
 200 NEW AA

OK to pay when paid
 B. Rubel
 3/26/21



1 - Task 1C - 8.5 Mile Utility Survey

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	4.00	130.0000	520.00
Total Rate Labor			520.00
Total Bill Task: 1 - Task 1C - 8.5 Mile Utility Survey			520.00

Total Project: 200732 - Macomb Co PW/In-system Storage Design Phase 520.00



ONESolution
 ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

Mark A. Hackel
 County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/27/21
4. SET ID VP210429MA	5. POST DATE	

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be issued to) Wade Trim	7. VENDOR NUMBER V09446
8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 2020780
10. Invoice Date 4/27/2021	11. Invoice Amount \$ 4,741.25

CHILD RECORD DETAIL INFORMATION			
Line	General Ledger		Job Ledger
	12. Org Key	13. Object	14. Cost Center (CCNT)
A	8200017M	80138	CC0004
B			
C			
D			
E			
F			
G			

15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
80138	WO19073	8 1/2 Mile Relief	Pjt #MCW200601T, thru 3/20-4/23	\$ 4,741.25	GEN		

23. Total: \$ 4,741.25

REV 09/2016

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
 Chapaton RTB Disinfection Improvements

25. Finance Officer:	BIM/mh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	\$59,596.55
27. Engineers:		32. Staff Date:	5/4/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	

**MACOMB COUNTY PUBLIC WORKS OFFICE
CONSULTANT INVOICE COVER SHEET**

WORK ORDER NUMBER	19073		
PROJECT NUMBER	WWS-2019-017		
PROJECT NAME	Chapaton RTB Disinfection Improvements		
DRAINAGE DISTRICT	Eight and One-Half Mile		
CONSULTANT NAME	Wade Trim Associates, Inc.		
INVOICE DATE	4/27/2021		
INVOICE START DATE	3/20/2021		
INVOICE END DATE	4/23/2021		
ORIGINAL CONTRACT AMOUNT			\$ 107,780.00
CHANGE ORDER TOTAL			\$ 74,917.50
Change Order No. 1	Date Executed:	9/21/2020	\$ 74,917.50
Change Order No. 2	Date Executed:		
Change Order No. 3	Date Executed:		
Change Order No. 4	Date Executed:		
TOTAL REVISED CONTRACT AMOUNT			\$ 182,697.50
(includes all approved change orders only)			
TOTAL AMOUNT PREVIOUSLY INVOICED			\$ 118,359.70
TOTAL AMOUNT DUE THIS INVOICE			\$ 4,741.25
TOTAL BUDGET REMAINING			\$ 59,596.55
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)			



25251 Northline Road • Taylor, MI 48180
 734.947.9700 • www.wadetrim.com

INVOICE

Terms: Net 30 Days
 1.5% Per Month After 30 Days
 18% Annual Rate

ACH payments accepted. Send inquiries to remit@wadetrim.com

Remit Payment To: Wade Trim, 25251 Northline Road, Taylor, MI 48180

Attention: Vince Astorino
 Operations and Flow Manager
 Macomb County Public Works
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice : 2020780
 Invoice Date : 4/27/2021
 Project : MCW200601T
 Project Name : Chapaton RTB Disinfection
 Improvements

For Professional Services Rendered For 3/20/2021 Through 4/23/2021

	Fee	Available	Billings		
			To Date	Previous	Current
	182,697.50	64,337.80	123,100.95	118,359.70	4,741.25
Rate Labor	4,741.25				
				Current Billings	<u>4,741.25</u>
				Amount Due This Bill	<u>4,741.25</u>

Total Fee : 182,697.50
 To Date Billings : 123,100.95
 Total Remaining : 59,596.55

600 - Project Management - Construction Phase

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Project Aide III				
Melanie A Phillips	4/13/2021	0.50	130.0000	65.00
Senior Professional				
John Arvai	3/24/2021	0.50	265.0000	132.50
	3/26/2021	0.25	265.0000	66.25
	4/5/2021	0.25	265.0000	66.25
	4/6/2021	3.00	265.0000	795.00
	4/7/2021	0.25	265.0000	66.25
	4/12/2021	0.25	265.0000	66.25
	4/15/2021	0.25	265.0000	66.25
	4/19/2021	0.50	265.0000	132.50
	4/20/2021	0.50	265.0000	132.50
	4/22/2021	0.50	265.0000	132.50
	4/23/2021	0.50	265.0000	132.50
Total Senior Professional		6.75		1,788.75
			Total Rate Labor	1,853.75
Total Bill Task: 600 - Project Management - Construction Phase				1,853.75

700 - CEI Services - Construction Phase

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Engineer II				
Jason Obrycki-Smith	3/24/2021	1.00	105.0000	105.00
	3/25/2021	1.00	105.0000	105.00
	3/30/2021	2.00	105.0000	210.00
	4/2/2021	2.00	105.0000	210.00
	4/5/2021	2.50	105.0000	262.50
	4/6/2021	2.50	105.0000	262.50
	4/7/2021	1.00	105.0000	105.00
	4/13/2021	1.00	105.0000	105.00
	4/14/2021	0.50	105.0000	52.50
	4/15/2021	2.00	105.0000	210.00
	4/16/2021	1.00	105.0000	105.00
	4/19/2021	2.00	105.0000	210.00
	4/20/2021	3.00	105.0000	315.00
	4/21/2021	3.00	105.0000	315.00
	4/22/2021	3.00	105.0000	315.00
Total Engineer II		27.50		2,887.50
			Total Rate Labor	2,887.50
Total Bill Task: 700 - CEI Services - Construction Phase				2,887.50

Total Project: MCW200601T - Chapaton RTB Disinfection Improvements

4,741.25

Work Description: Project management and administration coordination activities, staff and team meetings. Prepared monthly invoice and progress report. Review of contractor submittals, RFIs and pay applications. Progress Meeting #3 attendance and meeting minutes preparation. On site construction observation effort and support as requested by MCPWO.



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/30/21
4. SET ID VP210429MA		5. POST DATE

6. VENDOR NAME (Check to be Issued to) Weiss Construction		7. VENDOR NUMBER V081320	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) PAY EST #5	10. Invoice Date 4/25/2021	11. Invoice Amount \$ 216,139.77
--	--	-----------------------------	--------------------	---	-------------------------------	-------------------------------------

General Ledger		Job Ledger		OPTIONAL			19. Amount	20. DIV	21. MISC	22. Sep CK
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)				
A	8200017M	80126	80126	WO19073	8 1/2 Mile Relief	Pay Est #5, 4/1-4/30	\$ 214,713.27	GEN		
B	8200072M	80126		WO19074	Martin	Pay Est #5, 4/1-4/30	\$ 1,426.50	GEN		0
C										
D										
E										
F										
G										

23. Total: \$ 216,139.77

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Record retainage (WO19073) \$23,857.43 for total retainage of \$65,355.85. Record retainage (WO19074) \$158.50 for total retainage of \$8,728.30

25. Finance Officer:	BIM/mh	30. Drain:	8 1/2 Mile; Martin
26. Chief Deputy:		31. Project Balance:	\$291,496.80 (\$74,084.15 retainage)
27. Engineers:		32. Staff Date:	5/4/2021
28. Managers:		33. Board Date:	5/10/2021
29. Coordinator:		34. Select For Pay Date:	

**MACOMB COUNTY PUBLIC WORKS OFFICE
CONTRACTOR INVOICE COVER SHEET**

WORK ORDER NUMBER	WO19073		
PROJECT NUMBER	WWS-2020-09		
PROJECT NAME	Chapaton RTB & Martin RTB Disinfection Improvements		
DRAINAGE DISTRICT	8 1/2 Mile Relief Drain Drainage Distric		
CONTRACTOR NAME	Weiss Construction LLC		
INVOICE DATE	March 26, 2021		
INVOICE START DATE	April 1, 2021		
INVOICE END DATE	April 30, 2021		
ORIGINAL CONTRACT AMOUNT		\$	995,925.00
CHANGE ORDER TOTAL		\$	(37,670.85)
Change Order No. 1	Date Executed:	12/21/2021	\$ (16,337.83)
Change Order No. 2	Date Executed:	4/28/2021	\$ (21,333.02)
Change Order No. 3	Date Executed:		
Change Order No. 4	Date Executed:		
TOTAL REVISED CONTRACT AMOUNT		\$	958,254.15
(includes all approved change orders only)			
TOTAL AMOUNT PREVIOUSLY INVOICED		\$	450,617.58
TOTAL AMOUNT DUE THIS INVOICE		\$	216,139.77
TOTAL BUDGET REMAINING		\$	291,496.80
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)			

WO19073 Record retainage \$ 23,857.43 (TOTAL Retained \$ 65,355.85)

WO19074 Record retainage \$ 158.50 9/2 TOTAL Retained \$ 8,728.30

WEISS CONSTRUCTION COST BREAKDOWN
Chapaton & Martin Disinfection Project

	Chapaton (WC19073)	Martin (WC19074)	Total
CONTRACT TOTAL			
Original Contract Prices:	\$606,425.00	\$189,500.00	\$995,925.00
CO#1:	-\$12,253.37	-\$4,084.46	-\$16,337.83
CO#2:	-\$24,572.57	\$3,239.55	-\$21,333.02
CO#3:	-	-	\$0.00
CO#4:	-	-	\$0.00
Total with all CO's	\$769,599.06	\$188,655.09	\$958,254.15
PAYMENTS			
Pay App No 1	\$17,645.40	\$4,381.20	\$22,026.60
Pay App No 2	\$23,625.00	\$1,426.50	\$25,051.50
Pay App No 3	\$52,189.20	\$20,204.10	\$72,393.30
Pay App No 4	\$260,029.78	\$51,116.40	\$311,146.18
Pay App No 5	\$214,713.27	\$1,426.50	\$216,139.77
Pay App No 6	-	-	\$0.00
Pay App No 7	-	-	\$0.00
Total all Pay Apps:	\$588,202.65	\$78,554.70	\$666,757.35
SUMMARY			
Total Retained:	\$65,355.85	\$8,728.30	\$74,084.15
Total Work to Date:	\$653,558.50	\$67,283.00	\$740,841.50
Balance to Finish (incl. Ret)	\$116,040.56	\$101,372.09	\$217,412.65

Comments

Removed 4 Iwaki recirculation pumps (3 Chap, 1 Martin)
Additional Sample Piping, Remove Pipe Demo from scope, Add Pressure switch wiring

1/6/2021
1/27/2021
2/25/2021
3/31/2021
4/30/2021

10%

Pay apps will show this value
SW to provide district totals

Contractor's Application for Payment

Owner:	<u>Macomb County Public Works</u>	Owner's Project No.:	<u>WWS-2020-09</u>
Engineer:	<u>Wade Trim Associates</u>	Engineer's Project No.:	<u>Mcw 2006-01T</u>
Contractor:	<u>Weiss Construction</u>	Contractor's Project No.:	<u>2020-07</u>
Project:	<u>Chapaton RTB and Martin RTB Disinfection Improvements</u>		
Contract:	<u>WWS-2020-09</u>		
Application No.:	<u>5</u>	Application Date:	<u>4/25/2021</u>
Application Period:	<u>From 4/1/2021</u>	<u>to 4/30/2021</u>	

1. Original Contract Price	\$ 995,925.00
2. Net change by Change Orders	\$ (37,670.85)
3. Current Contract Price (Line 1 + Line 2)	\$ 958,254.15
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 740,841.50
5. Retainage	
a. <u>10%</u> X \$ <u>740,841.50</u> Work Completed	\$ 74,084.15
b. _____ X \$ _____ Stored Materials	\$ -
c. Total Retainage (Line 5.a + Line 5.b)	\$ 74,084.15
6. Amount eligible to date (Line 4 - Line 5.c)	\$ 666,757.35
7. Less previous payments (Line 6 from prior application)	\$ 450,617.58
8. Amount due this application	\$ 216,139.77
9. Balance to finish, including retainage (Line 3 - Line 4)	\$ 217,412.65

Contractor's Certification
 The undersigned Contractor certifies, to the best of its knowledge, the following:
 (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on-account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
 (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and
 (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: Weiss Construction - Josh Wittenbach
Signature: Joshua Wittenbach Digitally signed by Joshua Wittenbach Date: 2021.04.28 19:46:47 **Date:** 4/25/2021

Recommended by Engineer	Approved by Owner
By: _____	By: <u>[Signature]</u>
Title: <u>John Arvai</u> <small>Digitally signed by John Arvai DN: C=US, E=jarvai@wadetrm.com, O=Wade Trim, OU=Vice President, CN=John Arvai Date: 2021.04.28 20:39:24-04'00'</small>	Title: <u>Engineer II</u>
Date: _____	Date: <u>04/29/2021</u>
Approved by Funding Agency	
By: <u>N/A</u>	By: <u>[Signature]</u>
Title: _____	Title: <u>Operations & Flow Manager</u>
Date: _____	Date: <u>04/29/2021</u>

Progress Estimate - Lump Sum Work

Owner: Macomb County Public Works
 Engineer: Wade Trim Associates
 Contractor: Weiss Construction
 Project: Chapaton RTB and Martin RTB Disinfection Improvements
 Contract: WWS-2020-09

Contractor's Application for Payment

Owner's Project No.: WWS-2020-09
 Engineer's Project No.: Mcw 2006-01T
 Contractor's Project No.: 2020-07

Item No.	Description	From		to		F	G	H	I	
		S	C	D	E					
		Application Period:		Application Date:						
		04/01/21		04/30/21		04/25/21				
		Scheduled Value (\$)		Work Completed (D + E) From Previous Application (\$)		Materials Currently Stored (not in D or E) (\$)		Work Completed and Materials Stored to Date (D + E + F) (\$)		Balance to Finish (C - G) (\$)
Original Contract										
01	GENERAL CONDITIONS - CHAPATON		\$81,000.00	33,750.00	6,750.00		40,500.00	50%	40,500.00	
02	GENERAL CONDITIONS - MARTIN		\$19,020.00	7,925.00	1,585.00		9,510.00	50%	9,510.00	
03	PROCURE - PIPE MATERIALS (UPSTAIRS)		\$16,088.00	16,088.00	-		16,088.00	100%	-	
04	PROCURE - PIPE MATERIALS (BASIN)		\$114,000.00	108,300.00	5,700.00		114,000.00	100%	-	
05	PROCURE - AIR COMPRESSOR		\$12,500.00	12,500.00	-		12,500.00	100%	-	
06	CHAPATON MOBILIZATION		\$19,500.00	19,500.00	-		19,500.00	100%	-	
07	CHAPATON BYPASS PIPING		\$9,500.00	-	9,500.00		9,500.00	100%	-	
08	DEMO CHAPATON PUMP ROOM PIPING		\$5,025.00	-	5,025.00		5,025.00	100%	-	
09	INSTALL CHAPATON PUMP ROOM PUMPS & PIPING		\$18,500.00	11,100.00	7,400.00		18,500.00	100%	-	
10	DEMO CHAPATON PUMP ROOM PUMPS & PADS		\$21,000.00	-	10,500.00		10,500.00	50%	10,500.00	
11	INSTALL NEW PUMP PADS IN CHAPATON PUMP ROOM		\$19,000.00	19,000.00	-		19,000.00	100%	-	
12	DEMO CHAPATON TANK ROOM PUMPS & PIPING		\$3,850.00	-	2,310.00		2,310.00	60%	1,540.00	
13	INSTALL CHAPATON TANK ROOM PIPING		\$13,800.00	6,900.00	1,380.00		8,280.00	60%	5,520.00	
14	FURNISH & INSTALL CHAPATON TANK ROOM PUMPS		\$17,625.00	-	1,000.00		1,000.00	12%	17,625.00	
15	DEMO & INSTALL NEW AIR COMPRESSOR		\$8,500.00	-	-		-	0%	8,500.00	
16	CHAPATON ROOM FINISHES		\$5,250.00	-	-		-	0%	5,250.00	
17	FURNISH & INSTALL CHAPATON VFD'S		\$65,100.00	65,100.00	-		65,100.00	100%	-	
18	FURNISH & INSTALL CHAP. MAGNETIC FLOWMETERS		\$28,350.00	24,097.50	4,252.50		28,350.00	100%	-	
19	FURNISH & INSTALL CHAP. ELECT. CONDUIT & WIRING		\$57,062.00	19,971.70	37,090.30		57,062.00	100%	-	
20	CHAPATON O&M MANUALS		\$2,625.00	-	-		-	0%	2,625.00	
21	CHAPATON TRAINING		\$2,100.00	-	-		-	0%	2,100.00	
22	CHAPATON START-UP		\$8,925.00	-	-		-	0%	8,925.00	
23	INSTALL CHEMICAL LINES IN BASIN		\$76,750.00	36,375.00	34,537.50		72,912.50	95%	3,837.50	
24	INSTALL CHEMICAL LINES FOR 9 MILE DIFFUSER IN BASIN		\$51,250.00	7,687.50	41,000.00		48,687.50	95%	2,562.50	
25	INSTALL SAMPLE LINES IN BASIN		\$75,750.00	26,512.50	45,450.00		71,962.50	95%	3,787.50	
26	TEST & PUT CHAPATON BASIN PIPING INTO SERVICE		\$5,150.00	-	5,150.00		5,150.00	100%	-	
27	DEMO EXISTING PIPING IN BASIN		\$61,500.00	-	21,525.00		21,525.00	35%	39,975.00	
28	PROCURE - MARTIN PIPE MATERIALS		\$15,285.00	11,464.00	-		11,464.00	75%	3,821.00	
29	MARTIN MOBILIZATION		\$5,000.00	5,000.00	-		5,000.00	100%	-	
30	MARTIN BYPASS PIPING		\$3,100.00	-	-		-	0%	3,100.00	
31	DEMO MARTIN HYDROCHLORITE PUMP 1 & PIPING		\$2,950.00	-	-		-	0%	2,950.00	
32	INSTALL MARTIN HYDROCHLORITE PUMP 1 & PIPING		\$29,350.00	11,740.00	-		11,740.00	40%	17,610.00	
33	DEMO MARTIN HYDROCHLORITE PUMP 2 & PIPING		\$2,950.00	-	-		-	0%	2,950.00	
34	INSTALL MARTIN HYDROCHLORITE PUMP 2 & PIPING		\$29,350.00	11,740.00	-		11,740.00	40%	17,610.00	

Progress Estimate - Lump Sum Work

Owner: Macomb County Public Works
Engineer: Wade Trim Associates
Contractor: Weiss Construction
Project: Chapaton RTB and Martin RTB Disinfection Improvements
Contract: WWS-2020-09

Contractor's Application for Payment

Owner's Project No.: WWS-2020-09
Engineer's Project No.: Mcw 2006-01T
Contractor's Project No.: 2020-07

Application No.:		Application Period:		From		to		Application Date:			
5		04/01/21		04/30/21		04/25/21					
A	Item No.	B	Description	C	D		E	F	G	H	I
					(D + E) From Previous Application (\$)	Work Completed This Period (\$)					
	35		REMOVE & INSTALL MARTIN RECIRCULATING PUMP & PIPING	\$3,395.00	-	-	-	-	-	0%	3,395.00
	36		DEMO MARTIN PUMPS & PADS	\$3,900.00	-	-	-	-	-	0%	3,900.00
	37		INSTALL MARTIN PUMP PADS	\$4,400.00	4,400.00	-	-	-	4,400.00	100%	-
	38		FURNISH & INSTALL MARTIN VFD'S	\$27,300.00	21,021.00	-	-	-	21,021.00	77%	6,279.00
	39		FURNISH & INSTALL MARTIN MAGNETIC FLOWMETERS	\$12,600.00	10,710.00	-	-	-	10,710.00	85%	1,890.00
	40		FURNISH & INSTALL MARTIN ELEC. CONDUIT & WIRING	\$17,500.00	-	-	-	-	-	0%	17,500.00
	41		MARTIN O&M MANUALS	\$1,575.00	-	-	-	-	-	0%	1,575.00
	42		MARTIN TRAINING	\$2,100.00	-	-	-	-	-	0%	2,100.00
	43		MARTIN START-UP	\$4,725.00	-	-	-	-	-	0%	4,725.00
	44		ROOFING ALLOWANCE - CHAPATON	\$1,725.00	-	-	-	-	-	0%	1,725.00
	45		PERMIT ALLOWANCE - CHAPATON	\$5,000.00	6,106.00	-	-	-	6,106.00	122%	(1,106.00)
	46		PERMIT ALLOWANCE - MARTIN	\$5,000.00	1,698.00	-	-	-	1,698.00	34%	3,302.00
Original Contract Totals				\$ 995,925.00	\$ 500,686.20	\$ 240,155.30	\$ -	\$ 740,841.50	\$ -	74%	\$ 255,083.50

CONTRACTOR'S DECLARATION
(To be attached to the Contractor's periodic Request for Payment)

Project Name: Chapaton RTB and Martin RTB Disinfection Improvements

Contract No.: WWS-2020-009

Contract Date: 10/21/2020

Contractor: Weiss Construction, LLC

Owner: 8 1/2 Mile Relief Drain Drainage District

Certification Period (From the Date of the Contract to the Date of this Declaration) _____

October 12, 2020 - April 28, 2021

I hereby certify that I have not, during the above noted certification period, performed any work, furnished any material, sustained any loss, damage or delay for any reason, including soil conditions encountered or created, or otherwise done anything for which I shall ask, demand, sue for, or claim compensation from the Owner or its agents, in addition to the regular items set forth in the above noted Contract (and executed Change Orders thereto) executed between the Contractor and the Owner, except as the Contractor hereby claim for additional compensation and/or extension of time as described in previously submitted claim letters to the Owner dated:

Attached Summary, Dated _____

(Contractor to check this box if no claim letters are submitted to date)

CONTRACTOR

By: Joshua Digitally signed by
(Print Name) Signature Joshua Wittenbach

Name: Wittenbach Date: 2021.04.28
(Print Name) 19:53:01 -04'00'

Title: _____

Date: _____

Budget to Actual
 8.5 Mile Relief
 As of Apr 30, 2021 = 58%

DESCRIPTION	2021 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	175,000		10,081	164,919	5.8%
Other Revenue	4,000		1,463	2,537	36.6%
8.5 O&M/Charge Required Revenue	4,509,865		4,509,865	-	100.0%
PY Revenue-Fund Balance	4,522,050			4,522,050	0.0%
Rental Fee	16,460			16,460	0.0%
<i>Total Revenue Accounts</i>	9,227,375	-	4,521,409	4,705,966	49.0%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000		6,000	-	100.0%
Dues, Training, Conf, Subs.	12,850		9,044	3,806	70.4%
Engineering					
Flushing systems replacement-Design	1,328,480			1,328,480	0.0%
Basin Structural Repairs-Desing & Construction	750,000			750,000	0.0%
Equipment Hatch crane replacement	100,000			100,000	0.0%
9 Mile Bypass Pipe Structural Repairs	500,000			500,000	0.0%
As needed Engineering	87,810		34,286	53,524	39.0%
Chapaton Improvements-Office Space	820,000		287,188	532,812	35.0%
Disinfection system upgrade (Design and Construction)	901,625		445,988	455,637	49.5%
Chapaton Improvements-Lab Relocation	166,910			166,910	0.0%
In-System Storage-Construction & Const Admin	2,250,000		517,632	1,732,368	23.0%
9 Mile Bypass Design	44,165			44,165	0.0%
New Equipment ⁽¹⁾	15,500		20,146	(4,646)	130.0%
Office Supplies	750		180	570	24.0%
Operating Supplies	63,700		20,008	43,692	31.4%
Other Professional Svcs	46,700		8,103	38,597	17.4%
Personnel Services	1,061,320		274,607	786,713	25.9%
Repair & Maintenance	161,000		91,739	69,261	57.0%
Pumping and screening improvements	211,540		200,070	11,470	94.6%
SRF Replacement Reserve	259,215			259,215	0.0%
Scada System	165,710		30,587	135,123	18.5%
Utilities	274,100		192,308	81,792	70.2%
<i>Total Expense Accounts</i>	9,227,375	-	2,137,886	7,089,489	23.2%

	O&M Balance 9/30/2020	O&M	Total 4/30/2021
Cash - Operating	12,629,705	2,383,523	15,013,228
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		4,521,409	4,521,409
Expenditures		2,137,886	2,137,886
			0
Equity*	12,629,705		15,013,228

Detail of 2020 Equity*

Disinfection system upgrade (Design and Construction)	832,752	Pumping and screening improve	319,594
Chapaton Improvements-Office Space/HVAC	736,909	SCADA Reserve	84,385
Chapaton Improvements-Lab Relocation	250,000	Capital Reserve	1,118,359
LSCWWI 04B Transfer	738,112	PLC Replacements at Chapaton Ea	40,000
Project Contribution from Macomb Cty	2,000,000	As Needed Engineering	88,981
In System Contribution from SEMSD	1,000,000	Design 9 Mile Bypass	27,283
Expansion Contribution From State	975,109	Flushing Study	75,000
In-System Storage Design/Const Admin/Const	2,250,000	Pickup Truck ⁽¹⁾	19,500
SRF Replacement Reserve	2,073,720		