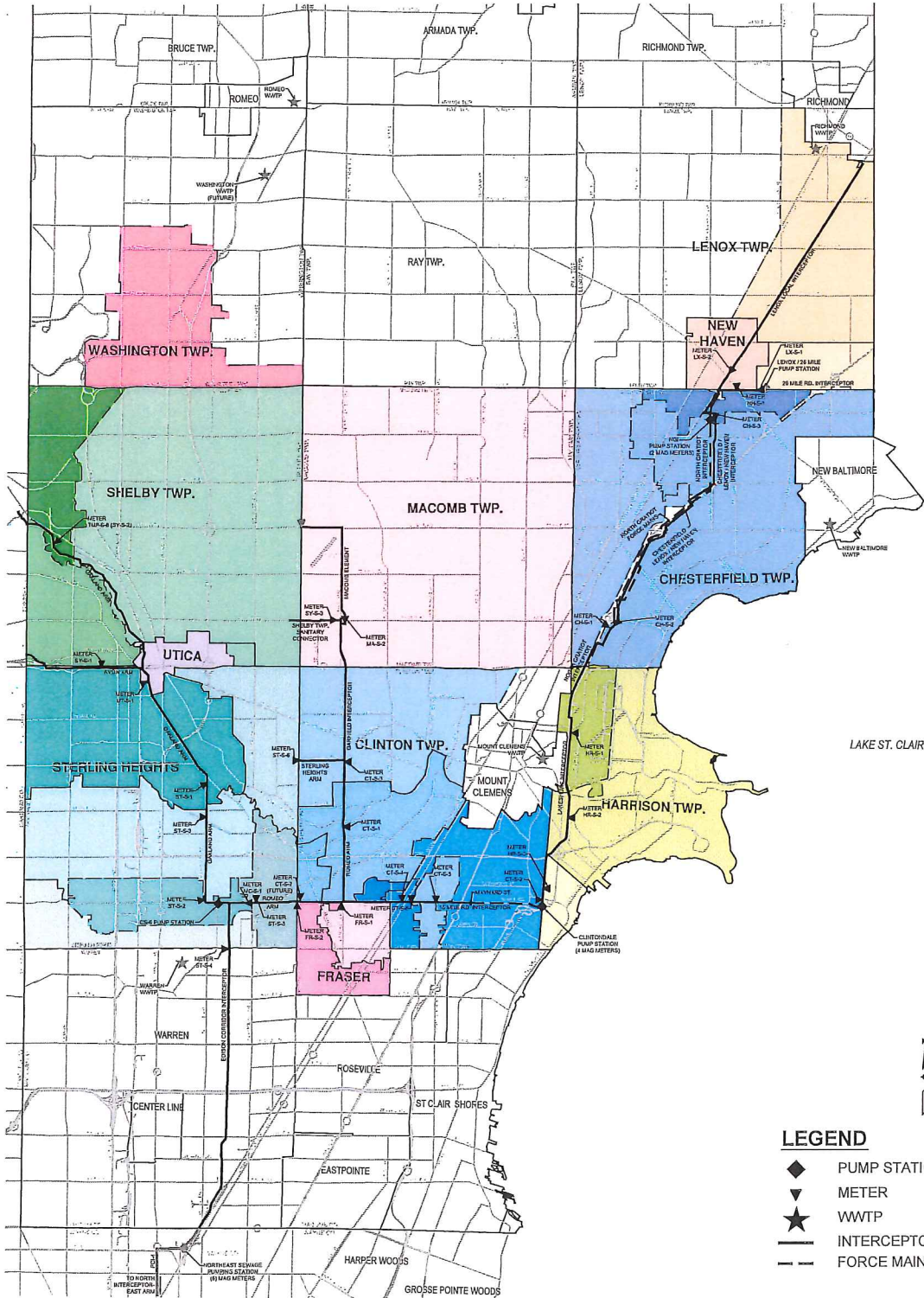


MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
JUNE 10, 2019
10:45 A.M.
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for June 10, 2019	
3. Approval of Minutes for May 13, 2019	3
4. Public Participation	
5. Washington Township Flow Meter Transfer Agreement – Vince Astorino	6
Motion: To approve the attached Asset Transfer Agreement transferring the WA-S-1 to the MIDDD from Washington Twp., all billing responsibilities from Macomb Twp. to the MIDDD, and the allocation of project costs	
6. Sale 48” HDPE Pipe – Evans Bantios	15
Motion: To approve the sale of 3,200 linear feet of surplus 48” HDPE pipe to Great Lakes Fusion for \$192,000	
7. Motor City Electric Technologies (MCET) SCADA As-Needed Maintenance – Stephen Downing	17
Motion: To accept the proposal and enter an agreement with MCET to provide as-needed SCADA maintenance and emergency services for 2019 in an amount not to exceed \$100,000 with an option to renew for 2020 based on MCWPO Engineer’s review and acceptance of the 2020 MCET Rate Schedule	
8. SRF Project Plan Resolution – Stephen Downing	20
Motion: To approve the resolution adopting the MIDD Project Plan as the first step in applying for State Revolving Fund loan assistance	
9. Consideration for approval of invoices (see attached)	30
10. Financial Report – Bruce Manning	32
11. Closed Session – Attorney Client Memorandum	
12. Adjourn	

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



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



Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER

fcrh
 UPDATED: FEBRUARY 2017

An adjourned meeting of the Intra-County Drainage Board for the **MACOMB INTERCEPTOR DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on May 13, 2019, at 11:09 A.M.

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

ALSO PRESENT: Robert Leonetti, Macomb County Board of Commissioners; Brian Baker, Chief Deputy Commissioner, Vince Astorino, Operations & Flow Manager, Evans Bantios, Engineer II, Dan Heaton, Communications Manager, Kellie Kource, Drain Account Specialist, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Stephen Downing, Construction & Maintenance Manager, Macomb County Public Works

The meeting was called to order by the Chair, Candice Miller. A motion was made by Mr. Mijac supported by Mr. Santo to approve the agenda with addition of the addendum regarding the Biofilter Media replacement recommendation.

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of April 8, 2019 were presented. A motion was made by Mr. Mijac, supported by Mr. Santo to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

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

Mr. Astorino brought a proposal regarding the SCADA Standards and Communications Study, stating that this controls every asset within our system. This system has been pieced together over the years, and we would like to create a master plan to update the system. Phase I would evaluate the system as a whole. Phase II and III would be taking recommendations based on that evaluation and fixing things. Phase IV would bring in all the Macomb County communities to this system. We did not go out to bid for this, there is really only one company that has the experience and expertise to do this.

A motion was made by Mr. Mijac, supported by Mr. Santo to approve the proposal from Tetra Tech for the Phase I SCADA Standards & Communication Study for a not-to-exceed amount of \$98,500.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino brought a proposal for Biofilter Media Replacement. The media was installed around 2015 only has a useful life of 3-5 years. We need to dispose of it and replace it. We received an additional proposal from Robert Clancy Contracting which was distributed at the meeting.

A motion was made by Mr. Mijac, supported by Mr. Santo to approve the proposal from Robert Clancy Contracting to remove and replace the media at the Biofilter for a not-to-exceed amount of \$73,260.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino brought a proposal for the purchase of (4) MID Flow Meters. We have many metering locations in the interceptors, however they are above the main interceptor. Being able to see what goes on in the main MID interceptor will provide a lot of information for our operators.

A motion was made by Mr. Mijac, supported by Mr. Santo to approve the proposal from ADS for the purchase and installation of four Flow Meters and six month maintenance for a not-to-exceed amount of \$46,200.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$239,272.85 to the board for review and approval.

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

Adopted: YEAS: 3
NAYS: 0

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

Adopted: YEAS: 3
NAYS: 0

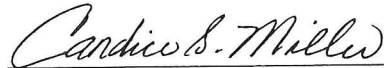
New business was brought to the board regarding the drop shaft project. Some of our staff will be doing a presentation to an environmental class at L'Anse Cruize High School regarding where things go when they enter the drains. There will also be more presentations in the fall to the AP classes. We would like to present to more schools in the future.

Other new business was brought regarding the Romeo Arm Segment 5. We utilized FK Engineering to do an analysis of this Segment. We have looked at all the rehab options, and are close to finalizing our recommendation based on that analysis. In the meantime we know of a few leaks based on the last inspection and are working to get a contract to seal the leaks with chemical grout.

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

Adopted: YEAS: 3
NAYS: 0

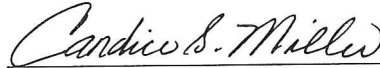
The meeting was adjourned at 11:46 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on May 13, 2019 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 5/13/19



Candice S. Miller

Public Works Commissioner
Macomb County

To: Candice Miller, Macomb County Public Works Commissioner

CC: Brian Baker, Chief Deputy

From: Vincent Astorino, Operations & Flow Manager

Date: June 4, 2019

Subject: Washington Twp. Flow Meter Transfer Agreement

The Macomb Interceptor Drain Drainage District (MIDDD) oversees the maintenance and long-term O&M responsibilities of 29 billing flow meters for communities throughout the MIDDD system. These flow meters measure the sewage entering the MIDDD system which is transported to OMID and then to the GLWA Treatment Plant. These flows are then used to establish the billing apportionment for each community.

When the billing meters were transferred from DWSD to the MIDDD back in 2010 the only one that was not is the Washington Township meter known as WA-S-1 located at 23 Mile and Hayes. A schematic of the site location is attached as Exhibit A. It is believed that this site was not transferred due to a dispute over ownership of the pipe (Macomb Element) in which WA-S-1 enters. This is not an issue as our legal has reviewed this issue and made it clear that this pipe is owned by the MIDDD. All parties have also been working together to make this transfer happen.

As part of the effort to properly transfer this to the MIDDD, the Macomb County Public Works Office (MCPWO) performed a thorough inspection of the facility along with a pipe. It was found that in order to get the site up to MCPWO standards, the site will require \$350,840.40 of rehab and upgrades as seen in Exhibit B attached. MCPWO has been working with Washington Twp. and we have come to the agreement that the MIDDD would pay for \$303,265.40 and Washington Twp. would pay \$47,575.00. The reasoning for this is as follows, when a community billing meter is first put online, that community pays 100% of the construction costs. Once built and accepted by the MIDDD, it is then transferred to the MIDDD and all maintenance and long-term O&M responsibilities are assumed by the MIDDD. The MIDDD has gone through the other facilities over the previous years and rehabbed all of the facilities with a common to all cost. With this logic, it is not fair to Washington Twp., who has been a member of MIDDD the entire time and paid for the initial construction of the facility, to pay the costs to rehab it. The \$47,575.00 that we are asking them to pay is for a separate issue with EGLE (formerly known as the DEQ) to resolve some long-term issues with flow capacities in the facility. MCPWO came up with a low-cost solution for the township to satisfy these requirements and will be saving them hundreds of thousands of dollars.

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 secondary part of this agreement is with Macomb Twp. to transfer the billing responsibilities to the MIDDD. Currently Macomb Twp. handles billing for Washington Twp. for their portion of the billing allocation. This should be handled by MCPWO just like how all of the other communities are handled.

The design and rehab for this has already been approved through the MIDDD board as part of the SY-S-1 & SY-S-2 rehab project. This work has also had funds allocated to it through the approved 2019/20 MIDDD budget.

The recommendation is for the MIDD Board to authorize Candice Miller to sign the attached Asset Transfer Agreement transferring the WA-S-1 to the MIDDD from Washington Twp., all billing responsibilities from Macomb Twp. to the MIDDD and allocates the project costs.

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Exhibit B



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

OPINION OF PROBABLE CONSTRUCTION COST

PROJECT: WA-S-1 METERING FACILITY REHABILITATION
LOCATION: MACOMB TOWNSHIP
WORK: Sewerage Metering Facility Rehabilitation

DATE: April 24, 2019
PROJECT #: 20180441
ESTIMATOR: BDS
CHECKED BY: BWS

Item	Description	Qty	Unit	Unit Price	Total
1	Mobilization	1	LS @	\$ 13,500.00 =	\$ 13,500.00
2	Sewer Lining, CIPP, 36 inch Dia Sewer	210	FT @	\$ 200.00 =	\$ 42,000.00
3	Manhole Re-line, 48 inch Dia	30	VFT @	\$ 520.00 =	\$ 15,600.00
4	Dr Structure, Reconstruct	1	EA @	\$ 1,000.00 =	\$ 1,000.00
5	Pavt, Rem	90	SYD @	\$ 10.00 =	\$ 900.00
6	Curb and Gutter, Rem	40	FT @	\$ 10.00 =	\$ 400.00
7	Conc Pavt, Non Reinf, 9 inch	90	SYD @	\$ 50.00 =	\$ 4,500.00
8	Aggregate Base, 21 AA	90	SYD @	\$ 10.00 =	\$ 900.00
9	Conc Curb & Gutter, Det F3	40	FT @	\$ 30.00 =	\$ 1,200.00
10	Bypass Pumping	1	LS @	\$ 20,000.00 =	\$ 20,000.00
11	Above Ground Site Painting	1	LS @	\$ 7,140.00 =	\$ 7,140.00
12	Site Restoration	1	LS @	\$ 3,500.00 =	\$ 3,500.00
13	Soil Erosion and Sedimentation Control	1	LS @	\$ 2,500.00 =	\$ 2,500.00
14	Maintaining Traffic	1	LS @	\$ 13,500.00 =	\$ 13,500.00
15	Electrical Demo	1	LS @	\$ 4,000.00 =	\$ 4,000.00
16	Update Electrical System				
	a. PVC Coated Rigid Conduit 3/4"	100	LF @	\$ 150.00 =	\$ 15,000.00
	b. 3pr #18 shld	2	CLF @	\$ 730.00 =	\$ 1,460.00
	c. #12 wire	4	CLF @	\$ 290.00 =	\$ 1,160.00
17	XP light fixtures	2	EA @	\$ 2,100.00 =	\$ 4,200.00
18	Replacement Control Panel, Programming, and Instrumentation				
	a. MCET Controls/Instrumentation Material & Fabrication	1	LS @	\$ 15,525.00 =	\$ 15,525.00
	b. Controls Engineering/PLC/Wireless and SCADA Programming	1	LS @	\$ 8,050.00 =	\$ 8,050.00
	c. Mounting and Installation of control panel & flow meter	1	LS @	\$ 4,000.00 =	\$ 4,000.00
	d. Unistrut Support System for flow sensor	1	LS @	\$ 2,000.00 =	\$ 2,000.00
	e. Concrete Pad for electrical cabinet	1	LS @	\$ 3,000.00 =	\$ 3,000.00
19	New Laser Level Sensor	1	LS @	\$ 15,000.00 =	\$ 15,000.00
20	Safety Enhancements				
	a. Intrusion Switches	2	EA @	\$ 420.00 =	\$ 840.00
	b. Install FRP Ladder Up	1	LS @	\$ 470.00 =	\$ 470.00
	c. Install Entrance Hatch Safety Grating	1	LS @	\$ 4,280.00 =	\$ 4,280.00
	d. Install Safety Line Connections	1	LS @	\$ 2,490.00 =	\$ 2,490.00
	e. Install Flume Grating	1	LS @	\$ 9,820.00 =	\$ 9,820.00
	f. Install Supply Fan	1	EA @	\$ 4,380.00 =	\$ 4,380.00
21	Structural Rehabilitation				
	a. Joint Repair & Seal	140	FT @	\$ 80.00 =	\$ 11,200.00
	b. Cracks Repair & Seal	50	FT @	\$ 100.00 =	\$ 5,000.00
	c. Concrete Surface Repair	20	SF @	\$ 260.00 =	\$ 5,200.00
	d. Surface Prep & Install Protective Concrete Coating	650	SF @	\$ 25.00 =	\$ 16,250.00
	e. Remove Existing Surface Concrete Coatings	650	SF @	\$ 26.00 =	\$ 16,900.00
22	Structure Maintenance				
	a. Repair Entrance Hatch	1	LS @	\$ 3,250.00 =	\$ 3,250.00
	b. Replace Vent Pipe Rubber Segmented Seals	2	EA @	\$ 26.00 =	\$ 52.00
	c. Vent Pipe Clean & Coat	2	EA @	\$ 6,100.00 =	\$ 12,200.00
	Subtotal			= \$	292,367.00
	20% Contingency			= \$	58,473.40
	TOTAL			= \$	350,840.40

Note: This opinion of probable cost has been developed from of previous facility inspections. As such, structure rehabilitation quantities have been assumed. A detailed structural evaluation will be completed subsequent to a high pressure cleaning of the facility.

ASSET TRANSFER AGREEMENT

Macomb Interceptor Drain Drainage District

(as MIDDD)

AND

Charter Township of Washington

(as Washington Township)

AND

Charter Township of Macomb

(as Macomb Township)

_____, 2019

THIS ASSET TRANSFER AGREEMENT (the "Agreement") is made and entered into as of _____, 2019 (the "Effective Date"), by and among the Macomb Interceptor Drain Drainage District ("MIDDD"), the Charter Township of Washington, a municipal corporation ("Washington Township"), and the Charter Township of Macomb ("Macomb Township"). The MIDDD, Washington Township, and Macomb Township may be referred to collectively as the "Parties".

A. The MIDDD is a drainage district formed pursuant to Chapter 20 of the Drain Code of 1956, MCL 280.1, *et seq.* Washington Township and Macomb Township are Charter Townships formed under the laws of the State of Michigan.

B. The WA-S-1 flow meter is located near 23 Mile Road and Hayes (the "Flow Meter"). The Flow Meter measures Washington Township's flow input into the MIDDD system. In addition to the Flow Meter, the assets transferred from Washington Township to the MIDDD hereunder include the connection pipe from the Flow Meter to the MIDDD Interceptor, the pipe from the metering facility to the next upstream manhole, and any associated manholes (collectively, with the Flow Meter, the "Assets"). The site plan and profile for the meter facility is illustrated in **Exhibit A**.

C. All similar flow meters and connection assets are owned and operated by the MIDDD. This ensures consistent operation and maintenance practices and calibration protocols, and it streamlines flow measurement and billing.

D. Washington Township does not want the responsibility of maintaining and operating the Flow Meter, and for the consistency purposes discussed above, the MIDDD desires to incorporate the Assets into the MIDDD system. Accordingly, the Parties desire to transfer the Assets from Washington Township to the MIDDD.

E. Macomb Township currently handles billing to Washington Township related to flow entering the MIDDD system at the Flow Meter. All parties would like to transfer billing responsibility such that the MIDDD directly bills Washington Township.

F. Washington Township has disclosed an issue related to the Flow Meter involving the Michigan Department of Environmental Quality ("MDEQ"), as further described below.

G. The Parties would like to formalize their agreement to do the foregoing, upon the terms and subject to the conditions set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual benefits to be derived from this Agreement and the representations, covenants, agreements, and conditions contained herein, the Parties, intending to be legally bound, agree as set forth below.

ARTICLE I ASSET TRANSFER

1.1 Asset Transfer. In accordance with, and subject to the terms and conditions of this Agreement, Washington Township hereby transfers, conveys, assigns, and delivers to the MIDDD,

and the MIDDD accepts from Washington Township, Washington Township's entire right, title, and interest in the Assets and all rights-of-way, easements, and permits, if any, maintained by Washington Township for the Assets, along with engineering plans, specifications, and other technical data related to the Assets. The parties acknowledge that the consideration stated in Paragraph D of the Recitals and elsewhere in this Agreement is full and adequate consideration for this Agreement.

1.2 "AS IS" Sale. The Macomb County Public Works Office has obtained an Opinion of Probable Construction Cost for the Assets. **Exhibit B** The Opinion of Probable Construction Cost has identified necessary repairs estimated to cost \$350,840.40 (the "Repair Costs"). The MIDDD will complete the repairs and will pay \$303,265.40 of the Repair Costs. Washington Township will pay \$47,575.00 of the Repair Costs. The MIDDD will invoice Washington Township for Washington Township's portion of the Repair Costs. The MIDDD understands and agrees that it is otherwise receiving the Assets in an "AS IS" condition from Washington Township and that Washington Township makes no representations or warranties, express or implied, regarding the condition or value of the Assets, and Washington Township disclaims all such warranties.

1.3 No Effect on Rights. The Parties acknowledge that the flow rights of MIDDD member communities are established in the discretion of the MIDDD drainage board, that this Agreement is not intended to alter any existing flow volumes, and that this Agreement shall neither diminish nor enlarge the rights of Washington Township as a MIDDD member community.

1.4 MDEQ Issue. Washington Township has disclosed the following issue with the MDEQ related to the Assets: _____.
(the "MDEQ Issue"). The MIDDD agrees to assume responsibility for resolving the MDEQ issue upon execution of this Agreement. The MDEQ issue described pertains to the document in **Exhibit C**.

ARTICLE III BILLING

2.1 Billing Responsibility. The parties agree that responsibility for invoicing Washington Township for flow entering the MIDDD system at the Flow Meter is hereby transferred from Macomb Township to the MIDDD. The Parties will cooperate with one another to effectuate an orderly transition of billing responsibility.

ARTICLE III MISCELLANEOUS PROVISIONS

3.1 Immunity. In undertaking the obligations of this Agreement, the Parties are engaging in a governmental function. The activities undertaken herein are not proprietary; and, specifically are not for pecuniary profit. Nothing in this Agreement is intended to, or shall be construed as, in any way diminishing the immunity the MIDDD, Washington Township, and Macomb Township enjoy under applicable law.

3.2 Amendments and Waiver. No amendment or waiver of this Agreement shall be binding unless in writing and signed by the party against whom enforcement is sought. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provisions hereof (whether or not similar), nor shall such waiver constitute a continuing waiver unless otherwise expressly provided. The unenforceability or invalidity of any provision of this Agreement shall not render any other provision unenforceable, and each provision hereof shall be enforced to the fullest extent permitted by applicable law. Macomb Township is a party to this Agreement solely to effectuate the transfer of billing responsibility, and its consent and further signature shall not be required with respect to any amendment or waiver related to the other matters covered by this Agreement.

3.3 Authorization and Validity of Agreement. The Parties have all requisite power and authority to enter into this Agreement and to carry out their respective obligations hereunder and the undersigned have secured all necessary approvals to carry out this Agreement.

3.4 No Third-Party Beneficiaries. This Agreement shall not confer any rights or remedies upon any Person other than the Parties hereto.

3.5 Further Assurances. The Parties agree that they will, at any time and from time to time, upon the request of the other party, execute, acknowledge, and deliver, or use all reasonable efforts to cause to be executed, acknowledged, and delivered, all such documents and instruments as may be necessary to carry out the intention of this Agreement.

3.6 Entire Agreement. This Agreement is fully integrated and contains the entire agreement among the Parties concerning the subject matter hereof and supersedes all prior agreements or understandings, whether written or oral, of the Parties with respect thereto.

3.7 Notices. All notices, requests, demands and other communications hereunder shall be in writing and shall be deemed to have been duly given on the day thereof if delivered by hand and receipted for by the party to whom said notice or other communication shall have been directed, or three (3) business days after mailed by certified or registered mail with postage prepaid, return receipt requested, or one (1) business day after depositing such notice or other communication for next business day delivery in the hands of an internationally-recognized delivery service, specifying delivery the next business day, in each case addressed to the applicable party at its address. If the notice or other communication is directed to the MIDD, a copy thereof shall contemporaneously be given to Joseph E. Viviano, Kienbaum Hardy Viviano Pelton & Forrest, P.L.C., 48 S. Main Street, Ste. 2, Mt. Clemens, MI 48043. If the notice or other communication is directed to Washington Township, a copy thereof shall contemporaneously be given to Robert J. Seibert, 19500 Hall Rd, Suite 101, Clinton Township, MI 48038.

3.8 Governing Law. This Agreement and each of the instruments and documents executed and delivered by the Parties pursuant to this Agreement shall be governed by, construed, and enforced in accordance with the laws of the State of Michigan, without regard to the conflicts of laws or principles thereof.

3.9 Counterparts; Electronic Signatures. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which together shall

constitute a single instrument. Execution and delivery of this Agreement by electronic exchange bearing the copies of a party's signature shall constitute a valid and binding execution and delivery of this Agreement by such party. Such electronic copies shall constitute enforceable original documents.

3.10 Joint Drafting. The Parties, together with their respective attorneys, have participated in the drafting, preparation, and negotiation of this Agreement. Each of the Parties acknowledges such participation and negotiation in order to avoid the application of any rule construing contractual language against the drafter thereof and agrees that this Agreement shall be construed without prejudice to the party who memorialized it in final form.

IN WITNESS WHEREOF, each of the undersigned has duly executed this Asset Transfer Agreement as of the date first written above.

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

By: Candice S. Miller
Its: Drainage Board Chairperson

WASHINGTON TOWNSHIP

By:
Its:

MACOMB TOWNSHIP

By:
Its:



Candice S. Miller
Public Works Commissioner
Macomb County

To: Candice Miller, Macomb County Public Works Commissioner

CC: Brian Baker, Chief Deputy

From: Evagelos Bantios, P.E., Engineer II

Date: May 24, 2019

Subject: Sale of 3200 Lineal Feet of 48" HDPE Pipe

Great Lakes Fusion, LLC (GLF) has requested the Macomb Interceptor Drain Drainage District (MIDDD) to sell 3200 linear feet of 48" HDPE pipe. The pipe was purchased as part of the 2016 Interceptor Collapse project to construct the bypass pumping force main along 15 Mile Rd. The pipe is currently located at GLF's property in Vernon, MI. GLF negotiated an offer of \$60/linear foot of pipe which is consistent for used 48" HDPE pipe. An email from Acclaim Plastics is attached that supports the negotiated cost per linear foot for used 48" HDPE pipe. Acclaim Plastics is one of the largest brokers of used pipe in the country. GLF has a customer with a project that requires 48" HDPE pipe scheduled in late summer 2019.

At the completion of the 2016 Interceptor Collapse project the bypass pumping pipe, valves and appurtenances were transported to the GLF yard for storage. There were several factors behind that decision, which include 1) Assessment of the entire MIDDD system for future bypass pumping needs, 2) Inexpensive storage cost and 3) There was no market for the sale of the pipe at that time. The engineering staff has assessed the future bypass pumping needs and there is a market demand to purchase the pipe at a reasonable price.

We recommend that the MID Drainage Board approve the sale of the pipe to GLF. This will add \$192,000 to the MID budget which can be allocated to make improvements to the system. After the sale of this pipe, we will have approximately 5,200LF of pipe remaining. In case of future emergencies, we would have enough pipe remaining to handle dry and wet weather flow bypass pumping for most of our system. The only exception is the Romeo Arm reach of sewer between Hayes Road and the ITC corridor just west of Schoenherr Road. This reach of sewer is scheduled for rehabilitation in the next two years, design will start this year and construction in 2020.

Attachments: Acclaim Plastics Opinion Of Unit Price Email

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

6/5/2019

Macombgov.org Mail - Fwd: FW: Acclaim Plastics - Price Quote Request Form from Bryan Marks 2019-03-29 11:35:48

it outright. That will give you a greater return in the long run. But if you wanted it "sold" now, I could give you an offer.

To buy outright I would offer \$7/ft on the 24" and \$35/ft on the 48".

If you wanted me to broker them, they may bring something like \$15 and \$60/ft but it is unlikely someone will want all of it at once and it could take a while. The 24" probably would go more quickly but the 48" may take some time. It is hard to say for sure how long it would take to sell it.

If I bought it, I would pay storage on it.

Thanks,

Keith

Keith Widmer

Acclaim Plastics (Div. of Acclaim Metals Inc.)

610-941-6000

fax 206-600-7036

keith@acclaimplastics.com

www.acclaimplastics.com

For your flow calculating needs: www.hdpipecalc.com



Candice S. Miller
Public Works Commissioner
Macomb County

To: Candice Miller, Macomb County Public Works Commissioner
CC: Brian Baker, Chief Deputy
From: Stephen Downing, Construction & Maintenance Manager
Date: May 31, 2019

Subject: Motor City Electric Technologies SCADA As-Needed Maintenance Recommendation

The Macomb County Public Works Office (MCPWO) utilizes Motor City Electric Technologies, Inc. (MCET) to provide as-needed maintenance and emergency SCADA services. The funding for these services is distributed across five drainage districts. Historically our office has executed MCET's agreement including their terms and conditions. Our office has worked diligently to develop standard agreements to utilize with our consultants and contractors.

Approximately two years ago pricing was solicited from multiple contractors in the area that are capable to provide the required services. The MCET pricing was much lower than the others. MCET has continued to provide excellent service for a competitive price. The MCET 2019 Rate Schedule is attached for reference and will become an exhibit to the agreement.

The MCPWO Engineers recommend entering a Maintenance Services Agreement for the Not-To-Exceed amount of \$100,000.00 to provide the required support for the SCADA system. The MCET cost will be billed on a monthly basis and funds will be drawn from the appropriate drainage district.

Drainage District	2019 Budget
Macomb Interceptor Drain Drainage District	\$57,250.00
8 ½ Mile Relief Drain Drainage District	\$24,187.50
Martin Sanitary Diversion Drainage District	\$4,837.50
Southeast Macomb County Wastewater Disposal District	\$3,225.00
Oakland-Macomb Interceptor Drain Drainage District	\$10,500.00
TOTAL	\$100,000.00

The recommendation for the board is that Macomb Interceptor Drain Drainage District to accept the proposal and enter an agreement with MCET to provide as-needed maintenance and emergency services for the SCADA system for 2019 with option to renew for 2020 based on MCWPO Engineer's review and acceptance of the 2020 MCET Rate Schedule.

Attachments: MCET SCADA Time and Material Rate Sheet.



Registered to ISO 9001:2008

Motor City Electric Technologies, Inc.

9440 Grinnell St.
Detroit, MI 48213-1151
(313) 921-5300 Phone
(313) 921-5310 Fax
www.mceco.com

March 4, 2019

Macomb County Public Works
Office of Candice S. Miller, Commissioner
21777 Dunham Road
Clinton Township, MI 48036

Attention: Mr. Vince Astorino

Subject: Macomb County Public Works Office (MCPWO)
2019 SCADA Hosting Maintenance and As-Needed Services Rates
Motor City Electric Technologies Inc. Proposal No. 19-0357

Dear Mr. Astorino,

Motor City Electric Technologies Inc. is pleased to submit this quotation for the SCADA Maintenance and As-Needed Services Rates between Motor City Electric Technologies and the Macomb County Public Works Commission.

2019 As-Needed Service Rates (per hour):

<u>Scheduled</u>	<u>Standard</u>	<u>Overtime</u>	<u>Premium</u>
SCADA Network Engineer	\$107.50	\$150.50	\$193.50
Engineer –Controls/PLC/SCADA	\$75.00	\$105.00	\$135.00
Engineer – Wireless/RF	\$86.00	\$121.00	\$155.00
Engineer – Voice/Data/Security	\$86.00	\$121.00	\$155.00
Field Low Voltage Service Technician*	\$75.00	\$105.00	\$135.00
Project Management	\$95.00		

*Service Truck/Van

Billed at \$9.50 Per Hour

Description of Rates

Project Management:

Rate will cover time for all MCPWC requested meetings, technical write-ups or site visits. Project Management time will also be billed at a factor of 1.10 for all engineering hours worked.

Standard Rate:

Monday through Friday, 8 consecutive hours, between the hours of 7:00 a.m. and 5:00 p.m.

Motor City Electric Technologies Inc.

March 29, 2017

Page 2 of 2

Overtime Rate:	Monday through Friday, in excess of 8 hours per day; Saturdays, and Monday through Friday between the hours of 5:00 p.m. and 7:00 a.m.
Premium Rate	Sundays and Holidays
Material	Cost plus 15%
Sub-Contract	Cost plus 7.5%
Invoicing	Invoices will be sent in monthly. All field reports with back-up documentation will be sent to MCPWO for approval prior to invoicing.

If you have any questions or request any additional information, please call me at (313) 957-3658.

Sincerely,
Motor City Electric Technologies Inc.

Robert Maechtle
Senior Estimator/Project Manager

/re



Candice S. Miller
Public Works Commissioner
Macomb County

To: Candice Miller, Macomb County Public Works Commissioner

CC: Brian Baker, Chief Deputy

From: Stephen Downing, Construction & Maintenance Manager

Date: June 5th, 2019

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 implementation of future improvements over the next 15 years such as rehabilitation and/or structural replacement within the existing sewer system to reduce the chances of more catastrophic failures. The following are several high priority projects planned for the next 3-5 years.

- 1) Grouting all existing leaks within the entire MID system
- 2) Structural Rehabilitation of Segment 5 (Fontana to the ITC Corridor – 7000 linear feet)
- 3) Perform a 3-year CCTV and Manned Entry Inspection of all non-reinforced concrete pipe
- 4) Rehabilitate Segment 6 (Garfield to Clintondale Pump Station)

As a requirement of the current MID SAW Grant we seek approval to submit for a State Revolving Fund (SRF) loan which is a 2% and 20-year loan up to the amount of \$205,100,000.

By submitting for this loan, the Macomb Interceptor 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.

The project plan was put together by Hubbell, Roth & Clark, Inc. The DRAFT project plan was put out for public review starting on April 23, 2019 and was listed in the Macomb Daily. Copies of the plan were placed at the front desk in MCPWO. On May 29, 2019, a public hearing was held which went through a presentation of the project. No members of the public were in attendance. If approved today, the final project plan will be submitted by July 1, 2019. The results for funding and the SRF priority list should be published by the end of 2019.

The recommendation for the board is that Macomb Interceptor Drain Drainage District formally adopts said Project Plan and agrees to implement the selected alternative (combination of the Full

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

Structural Replacement and Rehabilitation/Repair Alternatives). 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.
Project Plan Power Point Presentation

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 AGREEING TO SUBMISSION OF
POTENTIAL REHABILITATION FOR THE MIDDD SAW GRANT PROJECT PLAN
DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE**

WHEREAS, the Macomb Interceptor Drain Drainage District (MIDDD) Board is preparing for the potential need for implementation of improvements to reduce the chances of more catastrophic failures within the remainder of the Macomb Interceptor Drain (MID), a facility owned and operated by the MIDDD, located throughout Macomb County; and

WHEREAS, the MIDDD Board authorized Hubbell, Roth & Clark, Inc. to prepare a Project Plan in preparation for possible improvements to the remainder of the MID; and

WHEREAS, said Project Plan was presented at a Public Hearing held on Wednesday, May 29, 2019 and all public comments have been considered and addressed;

NOW THEREFORE BE IT RESOLVED, that the MIDDD Board formally adopts said Project Plan submission and SRF loan from the State of Michigan, and agrees to implement the selected alternative (combination of the Full Structural Replacement and Rehabilitation/Repair Alternatives), assuming all components of the selected alternative are determined to be necessary, by the MIDDD Board, to assure an improved structural integrity and reliability of the MID.

BE IT FURTHER RESOLVED, that the Chief Deputy 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 State Revolving Fund Loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

I certify that the above Resolution was adopted by the Macomb Interceptor Drain Drainage District Board on Monday, June 10, 2019.

BY:

Commissioner Candice S. Miller
Macomb Interceptor Drain Drainage District Board, Chairman

Date



PUBLIC HEARING
MIDDD SAW GRANT PROJECT PLAN
CLEAN WATER STATE REVOLVING FUND PROJECT PLAN

Candice S. Miller
Macomb County Public Works Commissioner
Macomb Interceptor Drain Drainage District

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

1

INTRODUCTIONS

- Candice S. Miller, Macomb County Public Works Commissioner
- Macomb County Public Works Office
 - Vince Astorino, Operation & Flow Manager
 - Evans Bantios, P.E., Construction & Maintenance Engineer
- Hubbell, Roth & Clark, Inc.
 - Karyn Stickel, P.E., Associate
 - Christopher Ross, Graduate Engineer I

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

2

WHAT IS THE PURPOSE OF THIS PUBLIC HEARING?

- Present a summary of the Clean Water State Revolving Fund (SRF) Project Plan
 - System Background
 - SAW Grant/Project Need/System Reliability
 - Analysis of Alternatives
 - Capital, Operation & Maintenance, User, and Other Associated Costs
 - Social & Environmental Impacts and their Mitigation
- Provide a forum for Community Participation

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

3

CLEAN WATER STATE REVOLVING FUND (SRF)

- What is it? How is it funded?
 - Administered by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Office of Drinking Water and Municipal Assistance, Revolving Loan Section
 - 20 year low interest loans to local municipalities/drainage districts (current rate is 2.0% for 20-year loans)
 - As of October 1, 2017, the SRF Program has provided low interest loans for 582 projects, totaling \$4.8 billion
 - Typically used to fund wastewater and storm water quality improvement projects

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

4

CLEAN WATER STATE REVOLVING FUND (SRF) CONTINUED

■ Application Process

- Clean Water State Revolving Fund (SRF) Project Plan Preparation Guidance
- Preliminary draft Project Plan submittal
 - EGLE Program Manager designated for project plan
- Publicize a draft project plan
 - Determine immediate and long-term (20 year) needs of the system
 - Present Worth/Alternative Analysis to determine most cost effective alternative
 - Consider long and short-term impacts and mitigation techniques
 - Public Involvement/Incorporate Public Comment
- Submit a final Project Plan
- Project Priority List (PPL) created based on a point system
 - Pollution abatement, OSSS, Septage Receiving, Enforcement, Population, Disadvantaged Community, etc.

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

5

CLEAN WATER STATE REVOLVING FUND (SRF) CONTINUED

■ Loan Acceptance Process

- Submitting an Application does not obligate agency to accept the loan
- Loan is available for up to 3 years
- Typically, design and construction begin after loan acceptance

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

6

FY19 PPL



Department of Environmental Quality Current PPL

SRF

Proj #	Project Name, Location and Description	Year	Q1	Q2	Q3	Q4	Total	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	Est. Cost	
PROJECTS WITH PPL-OR-STATEMENTS																				
1	1542-01 Duane River Water	City of Pontiac	WWTP Addition & Bond Facilities	23	0	0	0	23	0	0	0	0	23	0	0	0	0	0	0	0
2	1542-02 City of St. Joseph	Barren County	CSO Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1542-03 City of South Haven	New Britain County	CSO & WWTTP Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1542-04 Great Lakes Water	Yuba County	Wastewater treatment plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1542-05 Monroe County Drain	Monroe County	WWTTP # pump station upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROJECTS WITH PPL-OR-STATEMENTS																				
6	1542-06 Macon County	Macon County	Wastewater treatment plant	100	0	0	0	100	0	0	0	0	100	0	0	0	0	0	0	0
7	1542-07 Macon County	Macon County	Wastewater treatment plant	100	0	0	0	100	0	0	0	0	100	0	0	0	0	0	0	0
8	1542-08 Macon County	Macon County	Wastewater treatment plant	100	0	0	0	100	0	0	0	0	100	0	0	0	0	0	0	0
9	1542-09 City of Lansing	Ingham County	CSO Upgrades	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	1542-10 City of Lansing	Ingham County	CSO Upgrades	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1542-11 City of Lansing	Ingham County	WWTTP Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	1542-12 Macon County	Macon County	Wastewater treatment plant	100	0	0	0	100	0	0	0	0	100	0	0	0	0	0	0	0
13	1542-13 Macon County	Macon County	Wastewater treatment plant	100	0	0	0	100	0	0	0	0	100	0	0	0	0	0	0	0
14	1542-14 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1542-15 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1542-16 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1542-17 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1542-18 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	1542-19 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	1542-20 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1542-21 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	1542-22 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1542-23 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1542-24 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1542-25 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	1542-26 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	1542-27 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1542-28 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	1542-29 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1542-30 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	1542-31 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	1542-32 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	1542-33 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1542-34 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	1542-35 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	1542-36 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	1542-37 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	1542-38 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1542-39 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	1542-40 City of East Lansing	Ingham County	Sanitary Sewer System Upgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

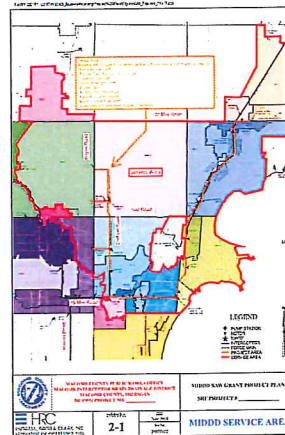
Project Type: SRF Loan Fiscal Year: 2019 Include 4th Quarter From Previous FY: No
Friday, October 05, 2018 9:32 PM

MID HISTORY AND BACKGROUND

- **Maconn Interceptor Drain (MID) installed between 1970 and 1999 by the Detroit Water & Sewerage Department (DWSD)**
 - In 2010, DWSD transferred all operation and maintenance responsibilities to the Maconn Interceptor Drain Drainage District (MIDD)
 - Over 500,000 Maconn County residents and businesses rely on this system to collect and transport sanitary sewage
 - Conveys between 30 - 50 cubic feet per second (cfs) of “dry weather flow” sanitary sewage
 - Conveys up to approximately 180 cfs of “wet weather flow”

MIDDD SERVICE AREA

- The MIDDD consists of the following communities:
 - Chesterfield Township
 - Village of New Haven
 - Clinton Township
 - Shelby Township
 - City of Fraser
 - City of Sterling Heights
 - Harrison Township
 - City of Utica
 - Lenox Township
 - Washington Township
 - Macomb Township



6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

9

PROJECT BACKGROUND

- 2017 and 2019 Project Plans were split into five (5) “Segments” each based on timing, location and size of the project.
- The Macomb Interceptor Drain Repair Project (2017 Project Plan) provided a funding application for the necessary repairs to the Romeo Arm Interceptor (MID PCI-12A).
- Emergency Repairs of Segments 1 and 2 were completed in December of 2017 at a cost of approx. \$70,000,000.
- Segment 5 work is currently out for design.
- Segment 3 and 4 are slated for design in upcoming years.
- Repairs to six (6) of the critical metering facility effluent drop manholes are currently out for design.

6/6/2019

HUBBELL, ROTH & CLARK, INC. | MIDDD SAW GRANT PROJECT PLAN PUBLIC HEARING

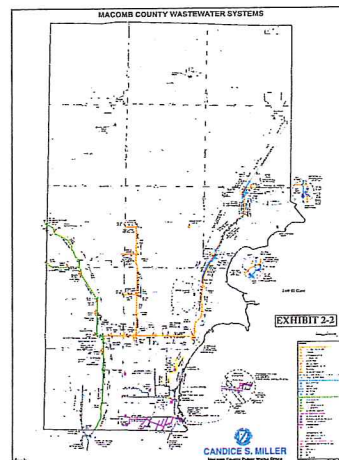
10

MIDDD SAW GRANT

- The MIDDD applied for a Stormwater, Asset Management and Wastewater (SAW) Grant in December of 2013.
- The MIDDD Saw Grant application was selected as a Round 4 Grant for authorization to proceed in the Fall of 2016.
- SAW Grant requested funding for Project Planning, which includes:
 - Condition Assessment of Existing Assets
 - Modeling of System (Hydraulics, Ventilation, etc.)
 - Flow Projections
 - Emergency Response Provisions
 - **Development of Project Plan**
- SAW Grant Condition Assessment included inspection of all the Interceptors not built or rehabilitated in the past 15 years.
- CCTV Inspections began in May of 2017 and were completed in December of 2017

MIDDD SAW GRANT PROJECT PLAN

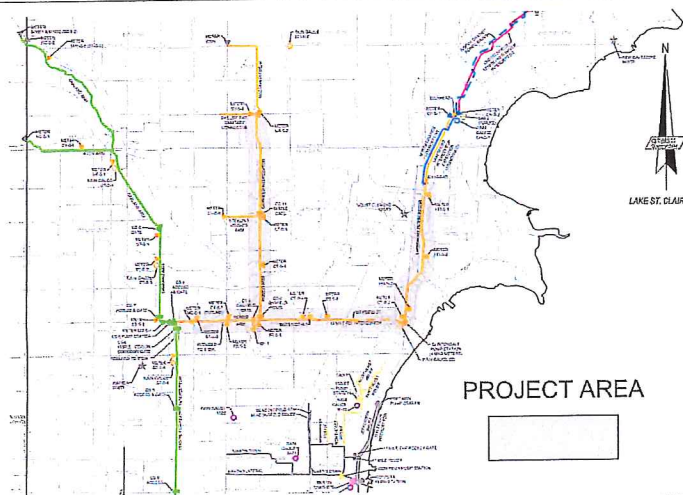
- The following Interceptors were the focus of this Project Plan:
 - 15 Mile Rd Interceptor
 - Garfield Arm
 - Lakeshore Interceptor
- The remaining Interceptors were discussed in previous project plans or were recently rehabilitated or constructed, including:
 - Romeo Arm – 2017 Project Plan
 - Sterling Heights Arm (18 Mile Road Interceptor) – Partially lined in 2008 and 2016
 - Macomb Element – Partially lined with spot repairs in 2016
 - Shelby Twp. Sanitary Connector – 2012 Investigation showed no capital improvements necessary
 - North Gratiot Interceptor – Constructed in last 15 years



PROJECT NEED

- Continued failure of MIDD Interceptors is not an acceptable level of service to Macomb County residents and businesses
- Reactionary repairs are not a cost-effective solution to failures on the Interceptors
- Overall, the proposed work would deliver the MIDD with an improved and more reliable Interceptor system that would extend the service life between 50 and 100 years and would reduce the future operation and maintenance costs of the MIDD

MIDD SAW GRANT INTERCEPTORS INSPECTED



Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance	
Macomb Interceptor Drain	Chapter 20 Chesterfield - 6.9899% Clinton - 20.9164% Fraser - 4.1343% Harrison - 5.9902% Lenox - .8610% Macomb - 14.5180% New Haven - .8150% Shelby - 9.9241% Sterling Heights - 31.2761% Utica - 1.7244% Washington - 2.8507%	Administration	Astorino	Belle Tire	\$ 662.00	Invoice #33213699 - 05.08.19	New Tires - Santo 2015 Ford F150 Super Cab	\$ 212,271.94
			Astorino	CH2M Hill Engineers, Inc.	\$ 17,831.10	Invoice #707997CH008 - 05.20.19	Odor & Corrosion Study	
			Astorino	City of Mt. Clemens	\$ 23,563.02	Invoice #28000356 - 05.08.19	Sewage Flow Billing	
			Astorino	DTE Energy	\$ 1,453.08	Invoice #19-211 - 03.29.19	Monthly Electric - 03.29.19 - 04.30.19	
			Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 2,593.90	Invoice #382229 - 05.28.19	GLWA Assistance through 5.19.19	
			Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 8,377.50	Invoice #383192 - 05.28.19	Master Plan	\$ 611,943.80
			Downing	Hank's Auto Service	\$ 714.31	Invoice #58698 - 05.06.19	Brakes - Santo 2015 Ford F150 Super Cab	
			Astorino	HESCO	\$ 1,287.50	Invoice #10395 - 05.03.19	CT-S-7 Meter Maintenance	
			Astorino	Hubbel, Roth & Clark, Inc.	\$ 659.61	Invoice #169893 - 05.14.19	MIDD Project Plan/Inspection through 05.04.19	\$ 542,550.48
			Astorino	Hubbel, Roth & Clark, Inc.	\$ 5,005.83	Invoice #169892 - 05.14.19	MIDD Project Plan/Inspection through 05.04.19	\$ 537,544.65
			Astorino	Hubbel, Roth & Clark, Inc.	\$ 675.00	Invoice #169892 - 05.14.19	MIDD Project Plan/Inspection through 05.04.19	\$ 543,210.09
			Astorino	Hubbel, Roth & Clark, Inc.	\$ 13,948.75	Invoice #42099 - 05.08.19	General Matters/Contracts	
			Astorino	Kienbaum Hardy Viviano Pelton & Forrest PLC	\$ 721.88	Invoice #301251 - 04.08.19	Fleet Fuel	
			Astorino	Macomb County Department of Roads	\$ 821.73	Invoice #301277 - 05.07.19	Fleet Fuel	
Astorino	Macomb County Treasurer	\$ 356,597.63	Invoice #AR190400 - 05.01.19	Reimbursement to Macomb County for MIDD				
Clintondale P.S.		Astorino	Tyson Hockman	\$ 995.00	Invoice #19-210 - 05.06.19	Personnel		
		Astorino	Verizon	\$ 867.79	Invoice #9830767739 - 05.23.19	Conference Reimbursement		
		Astorino	Clinton Township Treasurer	\$ 2,164.05	Invoice #19-219 - 04.30.19	Cell Services		
		Astorino	Cummins Bridgeway	\$ 3,188.59	Invoice #S6-22081 - 05.23.19	Water and Sewer - 03.25.19 - 04.23.19		
		Astorino	DTE Energy	\$ 20,418.36	Invoice #19-213 - 05.03.19	Annual Generator Maintenance		
		Astorino	Great Lakes Pest Control	\$ 500.00	Invoice #49779 - 05.10.19	Monthly Electric - 04.02.19 - 05.01.19		
		Baker	Aloia & Associates, P.C.	\$ 1,968.75	Invoice #18437 R - 04.01.19	Exterior Power Spray - Clintondale Station		
		Baker	Aloia & Associates, P.C.	\$ 1,046.25	Invoice #18437 - 04.01.19	Metco v. MIDD Legal Services		
		Baker	Aloia & Associates, P.C.	\$ 765.00	Invoice #18394 - 03.01.19	Metco v. MIDD Legal Services		
		Baker	Aloia & Associates, P.C.	\$ 912.00	Invoice #18290 - 04.01.19	15 Mile Investigation - Legal Services		
15 Mile Sinkhole		Baker	Kienbaum Hardy Viviano Pelton & Forrest	\$ 76,970.00	Invoice #42100 - 05.08.19	Legal Services - OMID Lawsuit		
		Baker	Viviano Law	\$ 2,242.00	Invoice #20293 - November 2018	Legal Services		

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>	
<u>Meters</u>		Astorino	Aquasight	\$ 40,000.00	Invoice #000501 - 05.28.19	Annual Subscription and Maintenance Fee		
		Astorino	DLZ	\$ 2,250.00	Invoice #139844 - 05.20.19	Data Management Support - McMars	\$ 10,352.50	
		Astorino	DTE Energy	\$ 549.13	Invoice #19-241 - 05.23.19	Monthly Electric - 04.19.19 - 05.21.19		
		Astorino	HESCO	\$ 14,930.00	Invoice #161024-30 - 05.03.19	Meter Maintenance	\$ 172,670.00	
		Downing	NTH Consultants, Ltd.	\$ 6,800.72	Invoice #618332 - 05.09.19	Meter & Drop Shaft Rehab	\$ 220,518.27	
	<u>NGI</u>		Astorino	Cummins Bridgeway	\$ 1,466.02	Invoice #S6-21901 - 05.21.19	Generator Maintenance	
			Astorino	Home Depot	\$ 2,966.00	Invoice #9904043 - 04.24.19	Shed	
			Astorino	National Industrial Maintenance	\$ 1,100.00	Invoice #34678 - 05.22.19	Clean Trash Basket	
	<u>OMID</u>		Bantios	Oakland County Treasurer	\$ 4,570,860.67	Invoice #SDS0006344 - 04.04.19	Sewage Disposal Charges - April 2019	
			Bantios	Oakland County Treasurer	\$ 4,570,860.67	Invoice #SDS0006407 - 05.06.19	Sewage Disposal Charges - May 2019	
<u>SCADA</u>		Astorino	Grainger	\$ 949.99	Invoice #9184319920 - 05.23.19	Fluke Meter		
		Astorino	McNaughton-McKay Electric	\$ 3,749.00	Invoice #16121281-00 - 05.20.19	SCADA Software		
		Astorino	Verizon	\$ 550.97	Invoice #9830767739 - 05.23.19	Cell Services		
			Total	\$ 9,763,983.80				

Budget to Actual
MIDDD
As of May 31, 2019 = 92%

DESCRIPTION	2019 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	52,458,900		43,336,928	9,121,972	82.6%
OMID O&M	2,391,427		1,793,575	597,852	75.0%
Reimbursements	125,000		270,259	(145,259)	216.2%
Grants/SRF Funding	500,000		335,820	164,180	67.2%
PY Revenue-Fund Balance	3,325,000			3,325,000	0.0%
Sale of Land	-		100,742	(100,742)	100.0%
Reimb-Local Communities	8,989,650		7,491,388	1,498,262	83.3%
Surplus	3,000,000			3,000,000	0.0%
Interest	30,000		274,402	(244,402)	914.7%
Total Revenue Accounts	70,819,977	-	53,603,115	17,216,862	75.7%
EXPENSE ACCOUNTS					
GLWA-OMID	52,458,900		44,016,047	8,442,853	83.9%
OMID O&M	2,391,427		1,992,856	398,571	83.3%
Public Works Wastewater Disposal Division	1,602,641		1,045,156	557,485	65.2%
Administration and Operations	288,653		257,068	31,585	89.1%
SCADA	151,626		97,882	53,744	64.6%
Engineering					
As Needed FTCH	75,000		58,003	16,997	77.3%
AS Needed CH2M	75,000		24,446	50,554	32.6%
As needed FK Engineering	75,000		25,333	49,667	33.8%
As Needed Wade Trim	75,000		43,925	31,075	58.6%
AS Needed Metco	75,000		5,338	69,662	7.1%
As Needed Applied Science	75,000		20,700	54,300	27.6%
Meter Dye Dilution Testing/As needed	100,000			100,000	0.0%
Engineering Design for MID repairs	1,000,000		17,900	982,100	1.8%
Drop Shaft Repairs(MA-S-2),CT-S-2, HR-S-2, ST-S-5,UT-S-1)	4,000,000		37,324	3,962,676	0.9%
SY-S-1 & SY-S-2 Meter Rehab	1,000,000		72,918	927,082	7.3%
System wide odor and corrosion study	500,000		182,503	317,497	36.5%
Lining Evaluation	-		24,861	(24,861)	100.0%
McMARS Operations	50,000		46,948	3,052	93.9%
SAW Engineering	625,000		48,477	576,523	7.8%
Bluewater	100,000		50,000	50,000	50.0%
Eng Meter Rehab Design(SYS-1 & SYS-2)	250,000			250,000	0.0%
Drop Shaft Repair	2,000,000		214,088	1,785,912	10.7%
Wastewater Master Plan/Contract Capacity	600,000		483,644	116,356	80.6%
Level Sensors/Pressure/H25	300,000			300,000	0.0%
Legal Services					
Clintondale PS O&M	400,000		213,317	186,683	53.3%
NGI O&M	550,000		353,451	196,549	64.3%
Meters O&M	371,000		117,160	253,840	31.6%
Meters O&M	330,000		194,711	135,289	59.0%
CS-3 O&M	52,000			52,000	0.0%
Biofilter O&M	304,500		10,054	294,446	3.3%
Contribution Life Cycle Reserve	171,700		85,850	85,850	50.0%
Sewage Disposal Charges - Mt. Clemens	200,000		152,688	47,312	76.3%
Debt Service - Revenue Bonds	572,530		333,976	238,554	58.3%
Total Expense Accounts	70,819,977	-	50,226,624	20,593,353	70.9%

	O&M Balance 6/30/2018	O&M	Total 5/31/2019
Cash - Operating	24,259,763	3,376,491	27,636,254
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		53,603,115	53,603,115
Expenditures		50,226,624	50,226,624
Equity*	24,259,763		27,636,254

Detail of 2018 Equity*

Projected reserve at 6/30/2018	15,675,763
Projected Engineering Reserve	3,250,000
Projected Sinkhole Surplus	4,800,000
Life Cycle Reserve	534,000
Use of surplus for 18/19	(3,000,000)

Dec 2016 Sinkhole

Revenue	75,676,590
Expenditures	71,775,127
Net	<u>3,901,463</u>