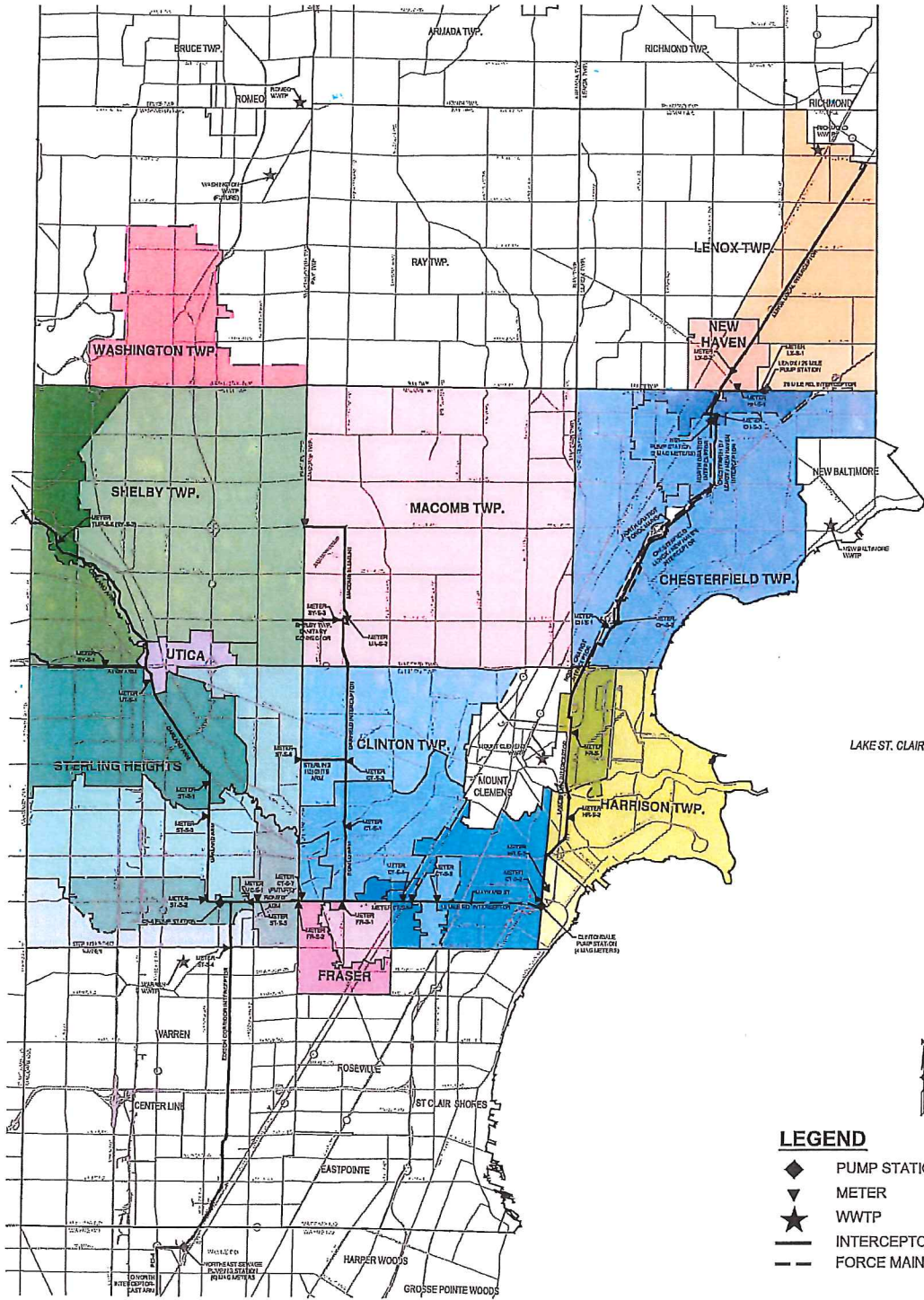


MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
FEBRUARY 11, 2019
10:45 A.M.
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for February 11, 2019	
3. Approval of Minutes for January 14, 2019	3
4. Public Participation	
5. Project Updates – Vince Astorino, Evans Bantios	
6. Meter Rehabilitation Design Change Order – Evans Bantios	5
Motion: To Approve a Change Order to the SY-S-1 Meter Design Project with HRC to include the Design of SY-S-2 and WA-S-1 Meter Facilities Rehabilitation in the amount of \$45,615	
7. Lawn Mowing Contract – Evans Bantios	15
Motion: To approve the quote from Marino’s Landscape for mowing services for the MIDD based on unit prices totaling \$16,767 for the 2019 and 2020 mowing seasons	
8. Consideration for approval of invoices (see attached)	19
9. Financial Report – Bruce Manning	21
10. Adjourn	

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



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



Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER

figh
 UPDATED: FEBRUARY 2017

An adjourned meeting of the Intra-County Drainage District for the **MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan, on January 14, 2019 at 11:30 A.M.

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

ALSO PRESENT: Harold Haugh, Robert Leonetti, Macomb County Board of Commissioners; Brian Baker, Chief Deputy, Karen Czernel, Deputy, Vincent Astorino, Operations and Flow Manager, Jeff Bednar, P.E., Environmental Resources Manager, Bruce Manning, Financial Manager, Stephen Downing, Engineer II, Dan Heaton, Public Relations Manager, Ken Goike, Drain Operations Manager, Barbara Delecke, Administrative Services, Madison Tanghe, Secretary to Chief Deputy, Macomb County Public Works (MCPW); Jordan Scott, Sterling Heights Public Works Department

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 as presented.

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of December 10, 2018 were presented. A motion was made by Mr. Mijac and supported by Mr. Santo to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

Anderson, Eckstein & Westrick, Inc. (AEW) conducted a survey of the northern communities to determine their future needs. This information was compiled and will be discussed at a January meeting with the communities. The information will then become part of the Master Plan. There is also an upcoming initiative for the Macomb County Public Works Office to offer SCADA services to communities, saving communities money. The existing sewer system is being evaluated to determine needed repairs. A project plan will be put together and can be used to apply for SRF loans.

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

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$329,423.94 to the board for review and approval.

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

Adopted: YEAS: 3
NAYS: 0

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

Adopted: YEAS: 3
NAYS: 0

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

Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 11:55 a.m.



Candice S. Miller
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage District shown on the attached set of minutes, on January 14, 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
Macomb County Public Works Commissioner

DATED: 1/22/19

9629.bd



Candice S. Miller

Public Works Commissioner
Macomb County

To: Candice Miller, Macomb County Public Works Commissioner

CC: Brian Baker, Chief Deputy

From: Stephen Downing, Engineer II

Date: February 6, 2019

Subject: Change Order Approval Request for SY-S-2 & WA-S-1 Meter Facility Rehabilitation Design

The 2018 MIDDD budget allocated \$250,000 for the SY-S-1 & SY-S-2 Meter Facility Rehabilitation design and engineering. Prior to publishing an RFP the MCPWO Engineering staff elected to develop the basis of design for SY-S-2 in-house. A competitive bid was issued on MITN for the SY-S-1 Rehabilitation Design in May/June of 2018. The Board approved the recommendation to award of this project HRC at the July 2018 Board meeting, the recommendation letter is attached for reference.

On September 4, 2018 the MIDDD entered into an agreement with HRC to provide design and engineering services to rehabilitate the SY-S-1 meter facility. The total contract value was \$20,235.00. HRC has been the lead consultant for the past several years to engineer and oversee the rehabilitation of nearly 20 metering facilities in the MIDDD. They provide cost efficient design and construction administration services, especially for this type of work.

The MCPWO Engineering staff developed a basis of design to relocate the SY-S-2 meter facility, which significantly reduced the design and construction cost for this site. Instead of reconstructing the existing meter chamber, flume, meter and infrastructure, it was determined to relocate the meter upstream one manhole and to install an Area-Velocity Laser Flow meter. This technology has been successfully utilized at other connections in the system, is less expensive and requires less infrastructure. Once the basis of design was developed, HRC was asked to provide a proposal to develop the drawings and specifications for a construction bid package, the total cost proposed is \$15,000.

In 2018 the MCPWO started discussions with Washington Township regarding the acquisition of the WA-S-1 Meter which is currently owned and maintained by Washington Township. Typically in the MIDDD system the meter facilities are owned and maintained by the MIDDD. The MIDDD is currently in negotiations with Washington Twp. to take over this metering facility. There are no historical records regarding why this was not done previously, but this is the relationship that has been standardized with every other community. Washington Township has agreed to transfer the assets to the MIDDD. The cost to rehabilitate this site will be split 50/50 with Washington Township as part of the agreement that is being finalized. The cost to provide design phase engineering services to rehabilitate the WA-S-1 meter facility and connecting sewer is \$30,615. As part of the rehabilitation design HRC will provide a probable opinion of construction cost, which Washington Township will present to their Board for approval to proceed based on a 50/50 split with the

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

MIDDD. The cost for WA-S-1 was not originally in the MIDDD Budget, through the MCPWO Engineering staff's value engineering efforts and the 50/50 split with Washington Township the additional work should be managed within the original Engineering and Construction budget of \$1,250,000.

After review of the proposals it is recommended to approve a change order to authorize HRC to proceed with the described design phase engineering services. The construction administration and observation cost will be negotiated and submitted for approval at a later date. The total change order amount for HRC is \$45,615.

When the design is complete for each of the three meter facilities a single bid package will be developed and published on MITN for contractors to bid on. At that time construction administration and oversight costs will be negotiated with HRC and submitted to the Board for approval. The packaging of these projects will provide additional cost savings in Construction Administration, Oversight and Construction.

Attachments: HRC - SY-S-2 Proposal
HRC - WA-S-1 Proposal
Draft Change Order to HRC
HRC SY-S-1 Approval Letter
Site Map

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Date of Issuance: 2/6/19

Effective Date:

Owner: MIDD

Engineer: HRC

Project: SY-S-1 Meter Rehab

Project No.: WWS-2018-009

The Contract is modified as follows upon execution of this Change Order: Provide the design phase engineering services to rehabilitate the SY-S-2 & WA-S-1 meter facilities as described in the attached proposals.

The original [Contract Sum/Guaranteed Maximum Price] was \$ 20,235.00

The net change from previously approved Change Orders No. ___ to No. ___ : \$ 0.00

The [Contract Sum/Guaranteed Maximum Price] prior to this Change Order: \$ 20,235.00

The [Contract Sum/Guaranteed Maximum Price] prior to this Change Order will be [increased/decreased/unchanged] by: \$ 45,615.00

The new [Contract Sum/Guaranteed Maximum Price], including this Change Order, will be: \$ 66,850.00

The Contract Time will be [increased/decreased/unchanged by]: 0 (days)

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

ACCEPTED:

By: _____
Owner (Authorized Signature)

ACCEPTED:

By: _____
Engineer (Authorized Signature)

Title _____

Date _____

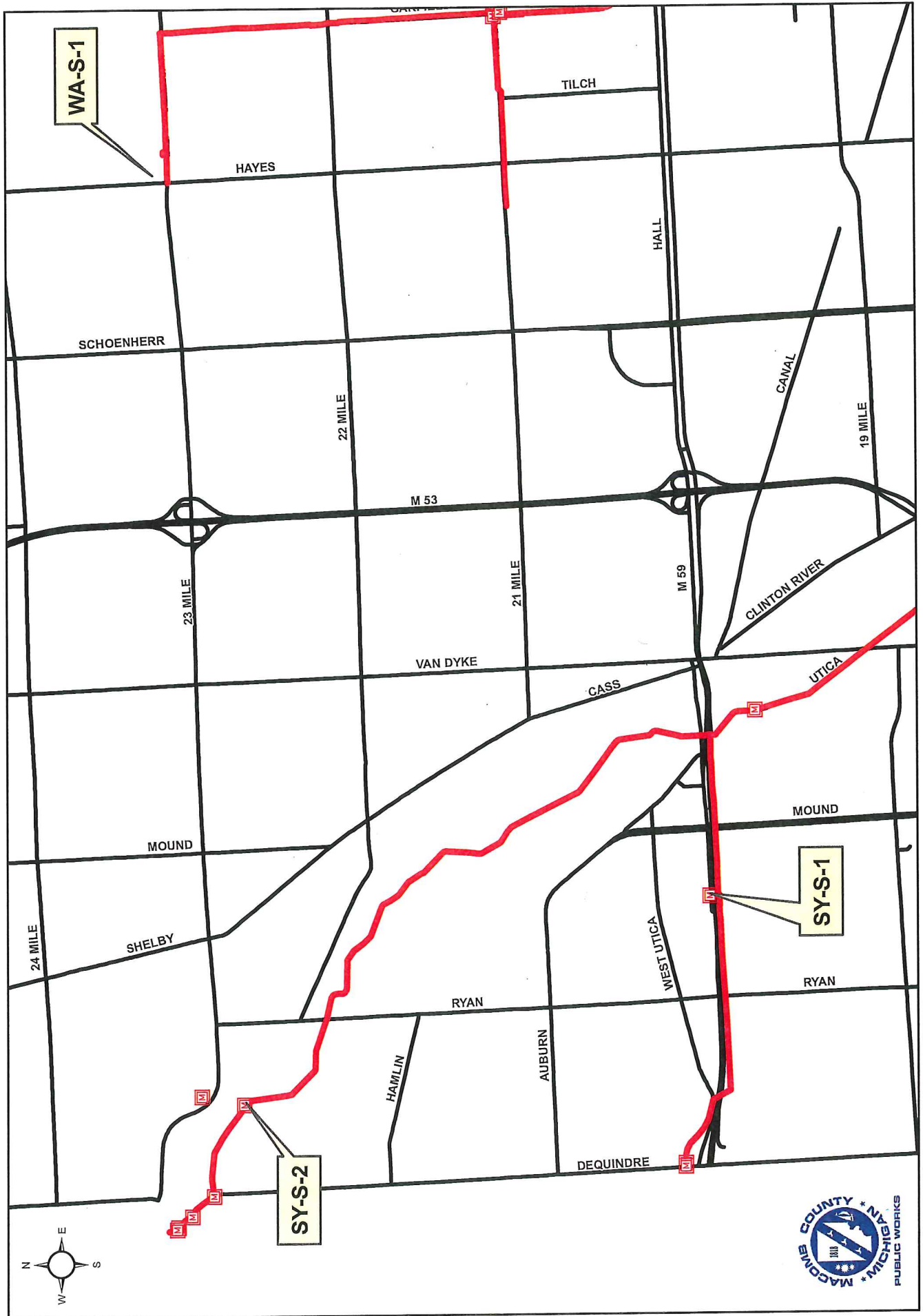
:

Title _____

Date _____

:

SY-S-1 / SY-S-2 / WA-S-1





Candice S. Miller

Public Works Commissioner
Macomb County

From: Macomb County Public Works Office

Date: 6/26/18

To: MIDDD Board

Copy: File
Evaluation Committee

RE: Proposal Evaluation Project Award Recommendation
MCPWO RFP No.: **MCPWO-WWS-2018-RFP-009**
MCPWO Proposal Name: **SY-S-1 Meter Pit Rehabilitation**

This is an open competitive contract. The Request for Proposals (RFP) was advertised from 5/1/18 to 6/14/18 on the Michigan Inter-Governmental Trade Network (MITN) website. Six-Hundred Seventy-Two (672) solicitations were sent out via MITN and Forty-Two (42) firms downloaded the RFP.

The purpose of this RFP is to solicit engineering services for the design of rehabilitation at the Meter Pit at the SY-S-1 Metering Facility. The project is separated into two tasks; Task One includes design and engineering for the rehabilitation of the SY-S-1 facility and Task Two includes the construction administration of the SY-S-1 rehabilitation. Task 2 is not included in this cost proposal and will be part of the construction contracts.

One (1) Addendum was issued during the course of the RFP. The Addendums provided responses to vendor questions submitted during the question period.

On 6/14/18, proposals were received from 3 firms. Each member of the Evaluation Committee independently reviewed and scored the proposals in accordance with MCPWO's policy. The possible range of scores was from 0 to 100. The proposers were ranked as follows:


Firm	Score	Proposed Cost
AEW	78.59	\$67,200.00
DLZ	76.93	\$50,308.00
HRC	99.47	\$20,325.00

The Evaluation Committee recommends that **Hubbell, Roth & Clark, Inc. (HRC)**, the number one ranked proposer, be named as the consultant for the above referenced Project. The Evaluation Committee consisted of the MCPWO Wastewater Engineering staff.

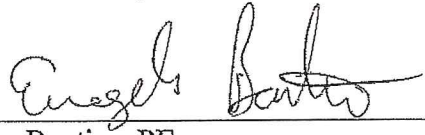
The original scope of this project included the rehabilitation of both meter SY-S-1 and SY-S-2. Based on review of the data and condition of SY-S-2, it was determined that metering improvements of this meter could be managed internally by the MCPWO engineering staff to provide cost savings. The original budget for both metering facilities was \$1,250,000, which included construction costs that will be procured after the design work is complete. The SY-S-1

design & engineering cost is under budget which provides opportunity for additional facility maintenance and improvement opportunities.

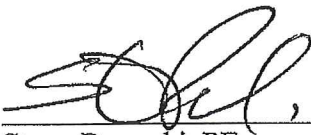
On behalf of the Board please indicate your approval of this recommendation by signing below. Thank you for consideration of this recommendation.



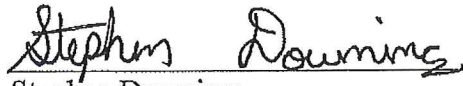
Vince Astorino
Operations & Flow Manager
MCPWO Engineering-Wastewater Services



Evans Bantios, PE
Construction & Maintenance Manager
MCPWO Engineering-Wastewater Services



Steve Rozycki, PE
Engineer II
MCPWO Engineering-Wastewater Services



Stephen Downing
Engineer II
MCPWO Engineering-Wastewater Services

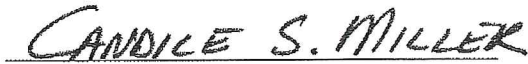
Approved:

Not Approved:

Hold:



Authorized Board Member Signature
Board Name



Authorized Board Member Name (print)

PRINCIPALS

Daniel W. Mitchell
Nancy M. D. Faught
Jesse B. VanDeCreek
Roland N. Alix
Michael C. MacDonald
James F. Burton
Charles E. Hart
Todd J. Sneathen

CONTROLLER

Donna M. Martin

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Aaron A. Uranga
Salvatore Conigliaro
Melissa A. Coatta
Michael P. Darga
Brian K. Davies
Matthew G. Slicker
James J. Surhigh
Trevor S. Wagenmaker

HUBBELL, ROTH & CLARK, INC.

MAILING: PO Box 824
Bloomfield Hills, MI 48303-0824

SHIPPING: 555 Hulet Drive
Bloomfield Hills, MI 48302-0360

PHONE: 248-454-6300

WEBSITE: hrcengr.com

OTHER OFFICE LOCATIONS

Delhi Township
Detroit
Grand Rapids
Howell
Jackson
Kalamazoo
Lansing

January 4, 2019

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

Attn: Ms. Candice S. Miller, Macomb County Public Works Commissioner

RE: Macomb Interceptor Drain Drainage District HRC Job No. 20180441.20
SY-S-1 Meter Facility Rehabilitation
MCPWO-WWS-2018-RFP-009
Proposal to Add Task 3 –
SY-S-2 Meter Relocation and Site Improvements

Dear Commissioner. Miller:

HRC is grateful for the opportunity to continue to work with your office on this assignment. It is our understanding the MCPWO would like continued assistance with the rehabilitation and modernization of the sewerage metering facilities within the MIDD. Currently, we are working on Task 1 – Design Engineering for the rehabilitation of metering facility SY-S-1 under our original assignment. Task 2 includes the construction administration of Task 1 and has yet to be assigned.

HRC recently completed a condition assessment of the existing SY-S-2 metering facility and provided a summary of recommended improvements for the facility and grounds. We are familiar with the SY-S-2 site and the enhancements necessary to update the metering capabilities inline with MCPWO standards.

For this additional Task, we are proposing to replace the existing metering facility and create a new metering manhole at an upstream location. This replacement method was a cost-effective solution developed by HRC and MCPWO staff as discussed in the SY-S-2 summary report dated February 16, 2018. It is our understanding that the asset acquisition concerns have been rectified which makes this solution very attractive. The new metering manhole would be a retro-fit of an existing inline system manhole and house an MCPWO accepted non-contact area/velocity (A/V) meter paired with a pressure transducer. In addition, improvements to downstream portions of the system; including large debris removal, manhole rehabilitation, I/I removal and structure abandonment will be completed.

HRC's scope of services for Task 3 includes;

- Provide updated site drawings utilizing GPS locators
- Assess condition of existing manholes to be rehabilitated/reconstructed
- Coordinate with MCPWO approved vendor for installation of new A/V meter
- New control panel and communications to MCPWO Control Center
- Work with DTE Energy to provide electrical service to ne control panel
- Abandonment plan for existing metering facility

Ms. Candice S. Miller
January 4, 2019
HRC Job Number 20180441.20
Page 2 of 2

For Task 3 - SY-S-2 Meter Relocation and Site Improvements, addressing the new work described above, we hereby propose a budget of \$15,000. This will be used only as necessary and at the discretion of your staff on an hourly basis at the rates provided in the proposal. All time will be tracked and reported separately from the original Tasks.

The scope and budget proposed assume that the project will be publicly bid and a complete set of construction plans and specifications will be necessary. It is proposed that approximately six (6) plan sheets will be necessary to detail the improvements described above along with a complementary Contract book. There are opportunities to value engineer this Task or modify procurement procedures that would allow for a reduced budget. These opportunities can be discussed upon or prior to authorization at your convenience.

We thank you in advance for considering us for this engineering work, and we appreciate this opportunity to assist you with this important project. Should you have any questions, or require additional information, please contact this office at (248) 454-6300.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



James Burton
Vice President
jburton@hrcengr.com

PRINCIPALS

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OTHER OFFICE LOCATIONS

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Kalamazoo
Lansing

February 6, 2019

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

Attn: Ms. Candice S. Miller, Macomb County Public Works Commissioner

Re: Macomb Interceptor Drain Drainage District HRC Job No. 20180441.21
MCPWO-WWS-2018-RFP-009
Proposal to Add Task 4 -
WA-S-1 Sewerage Metering Facility
Transfer, Rehabilitation and Site Improvements

Dear Commissioner Miller:

HRC is grateful for the opportunity to continue to work with your office on this assignment. It is our understanding the MCPWO would like continued assistance with the transfer, rehabilitation and modernization of the sewerage metering facilities within the MIDDD. Currently, we are working on Task 1 - Design Engineering for the rehabilitation of metering facility SY-S-1 under our original assignment. Task 2 includes the construction administration of Task 1 and has yet to be assigned and Task 3 includes proposed meter relocation and site improvements to meter SY-S-2.

We are proposing that the WA-S-1 sewerage metering facility, be split into three (3) phases;
Phase A – Preliminary Engineering and Transfer Documentation,
Phase B - Design Development, and
Phase C - Construction Administration and Full-Time Construction Observation.

Phase A includes the site assessment, documentation development and confirming cost estimate and creation of transfer drawings WA-S-1 facility. The following items will be included in Phase A:

- Heavy power-washing of the interior of the structure.
- Condition assessment of the existing meter facility and adjacent manholes.
- Development of site drawings delineating the limits of Washington Township ownership and MCPWO ownership for use in the Transfer Agreement.
- Providing a confirming estimate of construction costs based on the condition assessment and our extensive experience with metering facility rehabilitation.

Phase B includes the design engineering and contract document development for the rehabilitation and modernization of the WA-S-1 facility. Based on our prior experience with similar structures we anticipate the following items to be addressed in Phase B:

- Install safety enhancements: access hatch safety grating, ladder-up device, grating over the flume, and tether rings within the chamber.
- Update SCADA equipment to MCPWO standards.
- Update electrical system to MCPWO standards
- Install upstream laser level sensor.
- Install permanent lighting in the meter chamber.
- Install new flow sensor and support system.
- Structural rehabilitation: pressure injection of cracks, surface repair of spalled concrete, remove existing coating, and apply a protective coating system to interior concrete surfaces of the meter chamber

- Flume repairs.
- Lining influent and effluent sewer pipes and manholes

Phase C includes the Construction Administration and Full-Time Construction Observation for the rehabilitation and modernization of the WA-S-1 facility. Based on our prior experience with similar structures we anticipate the following items to be addressed in Phase C:

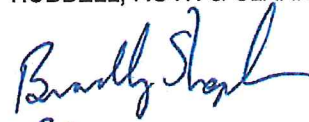
- Construction Administration
 - Issued for Construction Documents and Preconstruction Meeting Prep
 - Preconstruction Meeting
 - Shop Drawing Reviews
 - Change Management (RFI's, RFQ's, FWO's, WCD's, Change Orders)
 - Track & Support Construction Progress
 - Progress Meetings & Meeting Summaries
 - Record Drawings
 - Contract Close-out
- Construction Observation
 - Coordination of Sub-Contractors; this task is the responsibility of the General Contractor, however, past experiences have revealed that the field representative assigned to this project should have the capability to handle contractor coordination and work sequencing
 - Full-Time Observation
 - Site Visits at Intervals Reasonable for Construction Progress; during stagnation periods to ensure the project is ready for the next steps and that no unobserved work has taken place prior to moving to the next item of work.

For Task 4 - WA-S-1 Sewerage Metering Facility Transfer, Rehabilitation and Site Improvements we hereby propose a budget of \$45,585 for all three (3) phases of the project. This time is as broken down in the hours chart given below. This is based on our standard hourly rates. The scope and budget proposed assume that the project will be publicly bid and a complete set of construction plans and specifications will be necessary. It is proposed that approximately nine (9) plan sheets will be necessary to detail the improvements described above along with a complementary Contract book.

We thank you in advance for considering us for this engineering work, and we appreciate this opportunity to assist you with this important project. Should you have any questions, or require additional information, please contact this office at (248) 454-6300.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



For
James Burton
Vice President
jburton@hrcengr.com

HUBBELL, ROTH & CLARK, INC. COST PROPOSAL
February 6, 2019

TASK DESCRIPTION	Rate (\$/hr):											Total
	Principal	Associate/ PIM	Process/ QA/QC	Structural Dept. Head	Structural Engineer	Electrical Engineer	Graduate Engineer	CSE Supervisor	Designer (CAD Tech)	Const Eng/ RPR		
Phase A - Preliminary Engineering and Transfer Documentation												
Kickoff Meeting	2	6			4		4					16
Facility Dive & Assessment		2			8		8				8	26
Compilation Report & Recommendations		2		1	4		4					13
Confirming Cost Estimate		2		1	4		2					11
Transfer Drawings		1			2		2				16	23
Subtotals	0	994	0	304	2,088	1,792	552	800	1,880	0	0	8,410
Phase B - Design Development												
Permitting	1	2					4					7
Schematic Design		8		1	2		2					21
Construction Drawings & Details		4		2	8		8				24	54
Technical Specifications		8		2	12		8				2	38
75% Plans and Specifications Submittal Review Meeting	2	4			4		4					18
Final Construction Documents	1	4		2	12		12				12	49
Subtotals	4	30	4	7	38	22	44	0	38	0	0	187
TOTAL PROJECT COST (DESIGN)	748	4,260	748	1,064	4,408	2,464	4,048	0	4,465	0	0	22,205
Work Items Not Requested (Design): Preparation of Easement Documentation Procurement Assistance												\$ 30,615
Phase C - Construction Administration and Full-Time Observation												
Construction Administration												
Issued for Construction Documents							2		2			4
Preconstruction Meeting	2	4			3		6					15
Shop Drawing Reviews		6			12		12					34
Change Management		8			2		4		4			20
Track & Support Construction Progress		16			6		12					37
Pay Application Processing		6					12					18
Progress Meetings (Monthly) & Meeting Summaries		12					16					28
Record Drawings		2			1		6		4			13
Contract Closeout		2					6					8
Subtotals	2	56	0	0	24	9	76	0	10	0	0	177
	374	7,952	0	0	2,784	1,008	6,992	0	1,175	0	0	20,285
Construction Observation												
Coordination of Sub-Contractors												6
Full-Time Observation												235
Periodic Inspections												12
Subtotals	0	0	0	0	0	0	0	0	0	0	253	253
TOTAL PROJECT COST (CA)	0	0	0	0	0	0	0	0	0	0	253	25,300
TOTAL PROJECT COST (CA)	0	0	0	0	0	0	0	0	0	0	253	25,300
TOTAL PROJECT COST (TOTAL)	748	4,260	748	1,064	4,408	2,464	4,048	0	4,465	0	0	22,205
TOTAL PROJECT COST (TOTAL)	748	4,260	748	1,064	4,408	2,464	4,048	0	4,465	0	0	22,205

2019/2020 Lawn Maintenance RFQ Summary

A Request for Quotation (RFQ) was published on MITN for Lawn Maintenance at locations identified in Table 2. The RFQ was posted from January 7th, 2019 to February 5th, 2019 with Fifty-One (51) contractors downloading documents during the posting period. On February 5th there were three quotations received, which are summarized in Table 1.

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

The cost per cut, frequency of cut, season total for each site and each drainage district is illustrated in Table 3 and Table 4 for the 2019 and 2020 seasons.

The MCPWO recommends that the low bidder, Marino’s Landscape be awarded this work. In addition, Marino’s provided excellent service to each these Drainage Districts in 2018, they proved to be responsive to requests to address site specific items and flexible in their scheduling for high visibility sites.

Table 1

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

The total cost allocated to the respective drainage districts is summarized in Table 2. The contractor awarded this work would be required to execute a contract with each of the 10 drainage districts.

Table 2 – Drainage District Cost Summary

No	Drainage District	Drain Chapter	2018 Cost	2019 Cost	2020 Cost
1	MIDDD	20	\$7,880.00	\$8,200.00	\$8,567.00
2	8 ½ Mile Relief	20	\$8,181.00	\$8,100.00	\$8,532.00
3	Martin Sanitary Diversion	20	\$810.00	675.00	\$729.00
4	SEMCWDS	342	\$1,620.00	\$1,350.00	\$1,458.00
5	Clinton River Spillway	21	\$7,150.00	\$5,200.00	\$5,460.00
6	Roseville Consolidated	20	\$845.00	\$975.00	\$1,027.00
7	Bridgewood	4	\$390.00	\$390.00	\$416.00
8	Hildebrandt	4	\$1,755.00	\$1,885.00	\$1,989.00
9	Shanahan Drain	20	\$1,235.00	\$1,235.00	\$1,300.00
10	11 ½ Mile Relief	20	\$715.00	\$715.00	\$754.00
TOTAL			\$30,581.00	\$28,275.00	\$30,232.00

Marino's Landscape 2019 Cost Breakdown

Table 3 – 2019 Cost Summary

No.	Drainage District	Name/Location	Cut	Trim	Frequency	# of Cuts	2019 Cost Per Cut	Total Cost for 2019 Season
1	Clinton River Spillway	Clinton River Spillway	Yes	No	Twice a Month	13	\$400.00	\$5,200.00
2	Roseville Consolidated	Roseville Consolidated	Yes	No	Twice a Month	13	\$75.00	\$975.00
3	Bridgewood	Bridgewood	Yes	Yes	Twice a Month	13	\$30.00	\$390.00
4	Hildebrandt	Hildebrandt	Yes	Yes	Twice a Month	13	\$145.00	\$1,885.00
5	MIDDD	Sewage Flow Meter Site CH-S-1	Yes	Yes	Twice a Month	13	\$27.00	\$351.00
6	MIDDD	Sewage Flow Meter Site CH-S-2	Yes	No	Twice a Month	13	\$27.00	\$351.00
7	Shanahan Drain	Shanahan Drain Property	Yes	No	Twice a Month	13	\$95.00	\$1,235.00
8	MIDDD	Bio Filter	Yes	Yes	Once a Week	27	\$45.00	\$1,215.00
9	MIDDD	Sewage Meter Facility SY-S-3	Yes	Yes	Twice a Month	13	\$27.00	\$351.00
10	MIDDD	Sewage Meter Facility ST-S-3	Yes	Yes	Twice a Month	13	\$27.00	\$351.00
11	MIDDD	North Gratiot Pump Station	Yes	Yes	Once a Week	27	\$45.00	\$1,215.00
12	MIDDD	Clintondale Pump Station	Yes	Yes	Once a Week	27	\$45.00	\$1,215.00
13	MIDDD	Sewage Flow Meter Site NH-S-1	Yes	Yes	Twice a Month	13	\$27.00	\$351.00
14	MIDDD	ARV Vaults – 23 locations	Yes	Yes	Once a Month	7	\$400.00	\$2,800.00
15	11 ½ Mile Relief	11 ½ Mile Relief Property	Yes	Yes	Twice a Month	13	\$55.00	\$715.00
16	SEMCWDS	Bon Huer Pump Station	Yes	Yes	Once a Week	27	\$25.00	\$675.00
17	SEMCWDS	Violet Pump Station	Yes	Yes	Once a Week	27	\$25.00	\$675.00
18	8 ½ Mile Relief	Chapaton Retention Treatment Basin	Yes	Yes	Once a Week	27	\$275.00	\$7,425.00
19	8 ½ Mile Relief	Vacant Lot on Gaukler Street	Yes	Yes	Once a Week	27	\$25.00	\$675.00
20	Martin Sanitary Diversion	Martin Retention Treatment Basin	Yes	Yes	Once a Week	27	\$25.00	\$675.00

Marino's Landscape 2020 Cost Breakdown

Table 4 – 2020 Cost Summary

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

MACOMB INTERCEPTOR DRAIN 1/15/19

<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>Macomb Interceptor Drain</u> <u>Administration</u> 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% <u>Administration</u>		Keskery	Aloia & Associates, P.C.	\$ 988.00	Invoice #18091 - 01.01.19	Sale of Vacant Property - 45345 Garfield Rd.	
		Astorino	Applied Science, Inc.	\$ 20,700.00	Legal Services - ending 12.20.18 Invoice #2 - 12/21/18	Dye-Dilution Testing	\$ 54,687.50
		Bantios	CH2M Hill Engineers, Inc.	\$ 15,947.25	Invoice #707997CH004 - 01.09.19	Odor & Corrosion Study	\$ 302,959.69
		Bantios	Dr. Mole Incorporated	\$ 2,847.33	Engineering Services - 12.01.18 - 12.28.18 Invoice #18012-05 - 1/8/19	Project Plan Review	\$ 12,581.17
		Astorino	DTN, LLC	\$ 733.13	Invoice #5479508 - 01.18.19	Storm Sentry Subscription	
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 2,486.50	Invoice #380030 - 01.07.19	As-Needed Engineering Services	\$ 28,517.20
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 4,699.70	Engineering Services - 12.28.18 Invoice #380092 - 01.07.19	GLWA Assistance	
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 10,191.50	Engineering Services - ending 12.28.18 Invoice #380487 - 1/7/19	SEMSED WWMP - To be reimbursed by SEMSED	\$ 370,287.40
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 10,311.05	Engineering Services - ending 12/28/18 Invoice #380638 - 02.04.19	MIDDD WWMP	\$ 646,624.35
		Bantios	FK Engineering Associates	\$ 1,133.75	Engineering Services - ending 01.25.19 Invoice #17-134-010 - 12/6/18	As-needed Geotechnical Services - Grouting	\$ 9,503.32
		Bantios	FK Engineering Associates	\$ 6,847.00	Engineering Services - 11/1/18 - 11/30/18 Invoice #17-134-011 - 01.11.19	As-needed Geotechnical Services - Grouting	\$ 2,656.32
		Astorino	Hubbell, Roth & Clark, Inc.	\$ 8,538.08	Engineering Services - 12.01.18 - 01.04.19 Invoice #0167025 - 01.15.19	MID Condition Assessment Task D	\$ 559,925.97
		Astorino	Macomb County Department of Roads	\$ 598.45	Engineering Services - ending 12.29.18 Invoice #301176 - 01.08.19	Vehicle Fuel	
		Astorino	Macomb County Treasurer	\$ 21,000.00	Invoice #19-038 - 01.30.19	Reimbursement to General Fund for MIDDD Accounting Services	
		Astorino	Macomb County Treasurer	\$ 26,377.00	Invoice #2019-0111 - 01.11.19	Reimburse Equipment Fund for 2018 Ford F-150 Truck - Astorino	
		Astorino	City of Mount Clemens	\$ 16,998.81	Invoice #0028000257 - 01.09.19	Sewage Flow Billing - December 2018	
		Astorino	Verizon	\$ 1,093.38	Invoice #9820928392 - 12/23/18	Monthly Cell - 11/24/18 - 12/23/18	
	Bantios	Viviano Law	\$ 1,881.00	Invoice #20267 - 1/7/19	General Matters		

MACOMB INTERCEPTOR DRAIN 1/15/19

<u>Funding Source</u>	<u>Appportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>	
Macomb Interceptor Drain (Continued) Biofilter		Astorino	CH2M Hill Engineers, Inc.	\$ 1,748.40	Invoice #704078CH001 - 01.22.19 Engineering Services - 07.28.18 - 12.28.18	Fraser Biofilter Improvements Evaluations	\$ 37,296.85	
		Astorino	DE-CAL, Inc.	\$ 944.00	Invoice #WO18000853 - 01.08.19	Preventative Maintenance on HVAC		
		Astorino	DE-CAL, Inc.	\$ 1,517.00	Invoice #WO18250361 - 01.08.19	Replace Blower Motor on HVAC		
		Astorino	Motor City Electric Technologies	\$ 2,419.42	Invoice #92247 - 01.29.19	Contactors Repairs		
	Clintondale P.S.		Astorino	Clinton Township Treasurer	\$ 2,841.79	Monthly Water - 11/21/18 - 12/27/18		
			Astorino	DE-CAL, Inc.	\$ 2,589.00	Invoice #WO18000915 - 01.16.19	Winter HVAC PM	
			Astorino	DE-CAL, Inc.	\$ 752.00	Invoice #WO18250351	Replace Faulty Line Volt Tstat	
			Astorino	DTE Energy	\$ 21,934.33	Monthly Electric - 12.04.18 - 01.02.19		
			Astorino	McNaughton-McKay	\$ 892.08	Invoice #16270479-01 - 12/19/18	Filters for VFD Fans	
	15 Mile Sinkhole		Astorino	Spencer Oil Company	\$ 992.86	Invoice #575432 - 12/11/18	Diesel Fuel - Generator	
			Baker	Aloia & Associates, P.C.	\$ 1,073.50	Invoice #18093 - 01.01.19	15 Mile Road Investigation	
			Bantios	Aloia & Associates, P.C.	\$ 553.50	Legal Services - ending 12.22.18		
			Keskeny	Aloia & Associates, P.C.	\$ 1,814.00	Invoice #18094 - 01.01.19	15 Mile Sinkhole	
		Bantios	Aloia & Associates, P.C.	\$ 65,398.49	Legal Services - ending 12.26.18			
		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 6,647.70	Invoice #18095 - 01.01.19	Sale of property - 15370 15 Mile Road		
		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 7,527.28	Legal Services - ending 01.07.19			
		Bantios	Viviano Law	\$ 65,398.49	Invoice #115605 - 10.13.17	Recovery Shaft		
		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 6,647.70	Engineering Services - 08.21.17 - 09.17.17	Recovery Shaft		
		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 7,527.28	Invoice #120544 - 01.16.19	15 Mile Road Sinkhole		
		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 3,328.50	Invoice #20276 - 1/8/19			
		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 3,328.50	Legal Services - ending 12/31/18			
Meters			Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 1,375.00	Invoice #120525 - 01.16.19	Dropshaft & Connecting Sewer Rehab	
		Astorino	HESCO	\$ 17,780.00	Invoice #10352 - 01.04.19	MID Meter Repair		
		Astorino	HESCO	\$ 42,534.05	Application #26 - 01.14.19	MID Meter Maintenance		
		Bantios	Lakeshore Global Corporation	\$ 25,653.01	Application #32 - 4/15/17 - 9/30/17	Meter Rehabilitation - Final	\$ 292,642.79	
		Bantios	NTH Consultants, Ltd.	\$ 1,173.27	Invoice #617080 - 1/4/19	Dropshaft & Connecting Sewer Rehab		
NGI		Astorino	DTE Energy	\$ 1,300.00	Engineering Services - ending 12/28/18			
		Astorino	National Industrial Maintenance	\$ 8,918.75	Monthly Electric - 11/30/18 - 12/28/18	Clean Basket - Concordia & Grattot	\$ 33,706.00	
		Astorino	Wade Trim	\$ 4,570,860.67	Invoice #34015	As-needed Engineering Services		
OMID		Astorino	Oakland County	\$ 4,570,860.67	Invoice #M2013460 - 1/7/19	Task 03 - Sluice Gates		
		Bantios	Oakland County Treasurer	\$ 60,465.70	Engineering Services - 11/24/18 - 12/28/18	Task 06 - NGI Pump Addition		
SEMSD		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 4,570,860.67	Invoice #SDS0006151 - 1/1/19	Sewage Disposal Charges - December 2018		
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 60,465.70	Invoice #SDS0006239 - 12.01.19	Sewerage Disposal Charges - December 2018		
				\$ 309,821.70	Invoice #380672 - 02.04.19	SEMSD WWMP - SEMSD Paying	\$ 309,821.70	
				\$ 9,577,266.90	Engineering Services - ending 01.25.19			
Total				\$ 9,577,266.90				

Budget to Actual
MIDD
As of Jan 31, 2019 = 58%

DESCRIPTION	2019 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	52,458,900		25,981,202	26,477,698	49.5%
OMID O&M	2,391,427		1,195,717	1,195,710	50.0%
Reimbursements	125,000		311,827	(186,827)	249.5%
Grants/SRF Funding	500,000		42,308	457,692	8.5%
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		4,494,832	4,494,818	50.0%
Surplus	3,000,000			3,000,000	0.0%
Interest	30,000		154,962	(124,962)	516.5%
<i>Total Revenue Accounts</i>	70,819,977	-	32,281,591	38,538,387	45.6%
EXPENSE ACCOUNTS					
GLWA-OMID	52,458,900		26,243,043	26,215,857	50.0%
OMID O&M	2,391,427		1,195,712	1,195,715	50.0%
Public Works Wastewater Disposal Division	1,602,641		392,167	1,210,474	24.5%
Administration and Operations	288,653		158,603	130,050	54.9%
SCADA	151,626		58,715	92,911	38.7%
Engineering					
As Needed FTCH	75,000		27,086	47,914	36.1%
AS Needed CH2M	75,000		3,161	71,839	4.2%
As needed FK Engineering	75,000		19,238	55,762	25.7%
As Needed Wade Trim	75,000		32,191	42,809	42.9%
AS Needed Metco	75,000		2,264	72,736	3.0%
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			1,000,000	0.0%
Drop Shaft Repairs(MA-S-2),CT-S-2, HR-S-2, ST-S-5,UT-S-1)	4,000,000			4,000,000	0.0%
SY-S-1 & SY-S-2 Meter Rehab	1,000,000		22,603	977,397	2.3%
System wide odor and corrosion study	500,000		130,931	369,069	26.2%
Lining Evaluation	-		24,861	(24,861)	100.0%
McMARS Operations	50,000		5,063	44,937	10.1%
SAW Engineering	625,000		34,288	590,712	5.5%
Bluewater	100,000			100,000	0.0%
Eng Meter Rehab Design(SYS-1 & SYS-2)	250,000			250,000	0.0%
Drop Shaft Repair	2,000,000		167,683	1,832,317	8.4%
Wastewater Master Plan/Contract Capacity	600,000		254,192	345,808	42.4%
Level Sensors/Pressure/H25	300,000			300,000	0.0%
Legal Services	400,000		92,253	307,747	23.1%
Clintondale PS O&M	550,000		173,274	376,726	31.5%
NGI O&M	371,000		100,866	270,134	27.2%
Meters O&M	330,000		76,913	253,087	23.3%
CS-3 O&M	52,000			52,000	0.0%
Biofilter O&M	304,500		7,838	296,662	2.6%
Contribution Life Cycle Reserve	171,700		85,850	85,850	50.0%
Sewage Disposal Charges - Mt. Clemens	200,000		92,352	107,648	46.2%
Debt Service - Revenue Bonds	572,530		286,265	286,265	50.0%
<i>Total Expense Accounts</i>	70,819,977	-	29,708,112	41,111,865	41.9%

	O&M Balance 6/30/2018	O&M	Total 1/31/2019
Cash - Operating	24,259,763	2,573,478	26,833,241
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		32,281,591	32,281,591
Expenditures		29,708,112	29,708,112
			0
Equity*	24,259,763		26,833,241

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	75,653,359
Expenditures	71,445,155
Net	<u>4,208,204</u>