

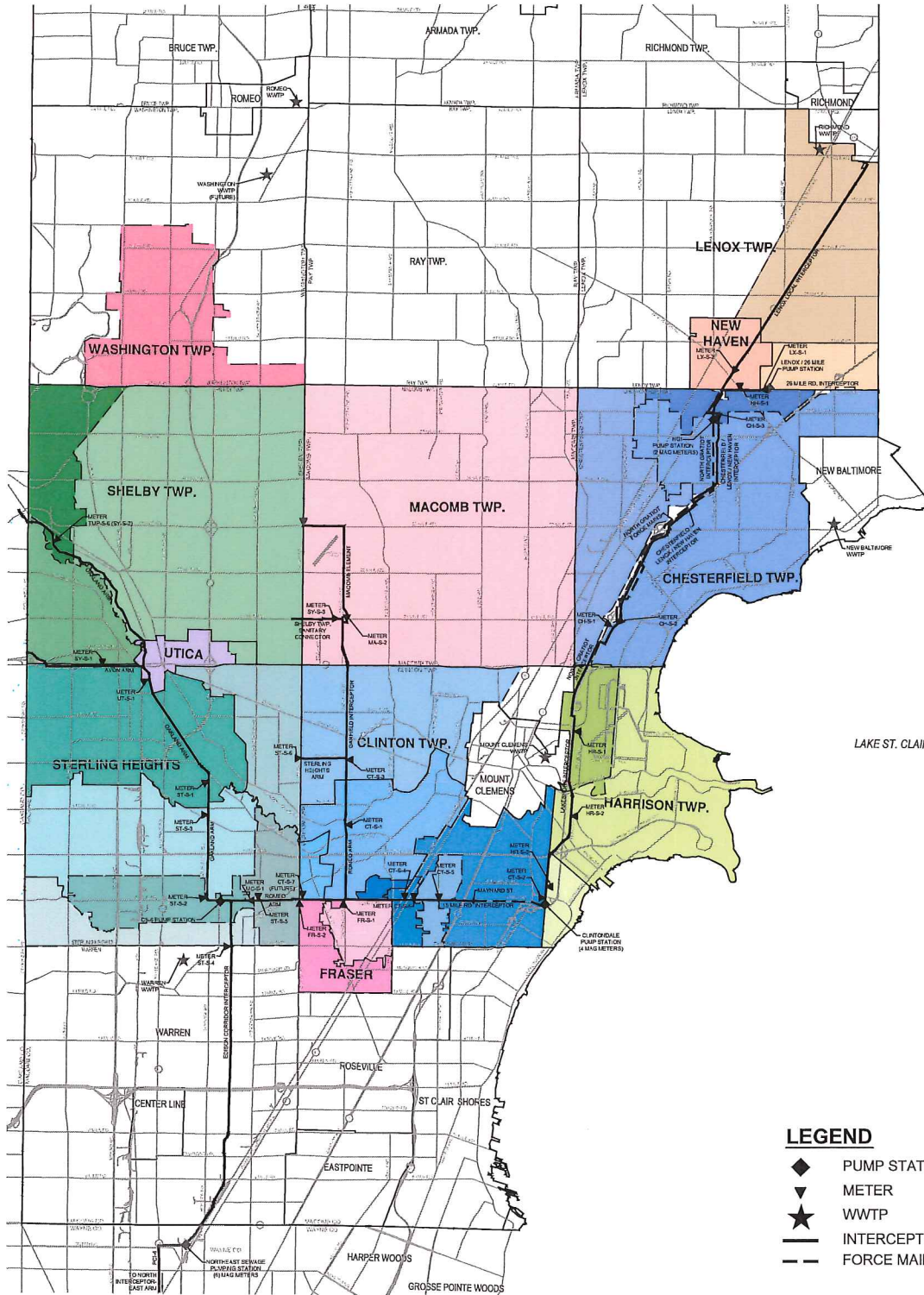
MACOMB INTERCEPTOR DRAIN  
FEBRUARY 12, 2018  
11:00 A.M.  
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for February 12, 2018	
3. Approval of Minutes for January 8, 2018	3
4. Public participation	
5. MID/OMID Northeast Pump Station Update – Evans Bantios	
6. Motion: Approve the Access Agreement between the MID and the Great Lakes Water Authority (GLWA) for access into the Northeast Sewage Pumping Station to clean out sediment – Evans Bantios	6
7. Motion: Approve video inspection under SAW Grant 1128-01 by Doetsch Environmental Services for a not-to-exceed amount of \$29,000 – Vince Astorino	10
8. Consideration for approval of invoices (see attached)	18
9. MIDD Financial Report – Bruce Manning	21
10. Old Business	
11. New Business	
12. Adjourn	

Next Regular Meeting

March 12, 2018 at the Office of the Macomb County Public Works Commissioner,  
21777 Dunham Road, Clinton Township, Michigan 48036

# MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



## LEGEND

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



**Candice S. Miller**  
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



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 8, 2018 at 10:18 A.M.

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

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Vincent Astorino, Operations & Flow Manager, Evans Bantios, P.E., Construction and Maintenance Manager, Dan Heaton, Public Relations Manager, Barbara Delecke, Administrative Services, Macomb County Public Works; Joe Viviano, Viviano Law

The meeting was called to order by the Chair, Candice Miller. The agenda was approved as presented.

Minutes of the meeting of December 12, 2017 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

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

Mr. Bantios gave an update on negotiations to acquire the Northeast Pump Station (NEPS) from the Great Lakes Water Authority (GLWA). Oakland and Macomb Counties pay for the operation and maintenance of the gravity-fed station which needs \$20 to \$30 million in rehabilitation. There are seven miles of pipe south of the station that also needs work. The OMID Board has deemed that it would be more advantageous to have OMID perform the work than the GLWA. Macomb County currently pays over 60% of O&M charges and 51% of capital costs.

Sediment was sent to the NEPS during the sinkhole repair. Macomb County will pay the cost for vactoring the wet well and grouting the pipe south of the sinkhole.

The inspections of the MID system are 99% complete. HRC will compile the data into a report.

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

Adopted: YEAS: 3  
NAYS: 0

The Governor's office is putting together a pilot program to include all assets in the State of Michigan. Moving forward, if a road needs replacement, the data base will show that the underground infrastructure also needs replacement. Macomb County will provide its data to the

State. The agreement protects Macomb County against unauthorized release of the data and is being coordinated through SEMCOG.

A motion was made by Mr. Santo, supported by Mr. Mijac to approve the Data Sharing Agreement with the State of Michigan as part of the State's pilot infrastructure coordination program.

Adopted: YEAS: 3  
NAYS: 0

The Chair presented the invoices totaling \$6,477,259.97 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

A motion was made by Mr. Santo, supported by Mr. Mijac to move the meeting to a "CLOSED SESSION" at 10:40 a.m.

Adopted: YEAS: 3  
NAYS: 0

A motion was made by Mr. Mijac, supported by Mr. Santo to adjourn the "CLOSED SESSION" of the meeting at 11:02 a.m.

A motion was made by Mr. Mijac, supported by Mr. Santo to move forward with what was discussed in closed session.

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 11:03 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 8, 2018, 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: 1/9/18

9078.bd

## ACCESS AGREEMENT

This Access Agreement ("Agreement") is made between the Macomb Interceptor Drain Drainage District ("District") and the Great Lakes Water Authority ("GLWA"). GLWA and the District may be referred to in this Agreement, individually, as "Party" and collectively as "Parties."

GLWA is the owner of property located at 11000 E. Eight Mile Road, Detroit, Michigan, known as the Northeast Sewage Pumping Station ("Property"). The Northeast Sewage Pumping Station consists of a wet well and pump house. Northeast Pumping Station receives wastewater from the 12.75 foot Corridor Interceptor. The Corridor Interceptor receives flow from the 15 Mile Interceptor, which receives flow from the Romeo Arm and Lakeshore Interceptor through the Clintondale Station.

GLWA is willing to grant access to the Property to the District and its employees, consultants, contractors, subcontractors, and other agents (collectively, "Representatives"), subject to the terms and conditions of this Agreement.

NOW THEREFORE, for good and valuable consideration, the Parties agree as follows:

1. **Purpose:** The District has expressed a desire to perform cleaning maintenance work at the Property ("Project").
2. **Permitted Activities:** The Permitted Activities are solely as follows: clean the Property and address sediment issues that resulted from a sinkhole on 15 Mile Road in Fraser, Michigan on or about December 24, 2016. District and its Representatives may access the Property, as necessary to perform the Permitted Activities. All Permitted Activities shall be performed at the District's sole expense, including reimbursing GLWA for any fees that GLWA may incur as a result of the District's activities.
3. **Initial Activities:** Prior to initiating the Permitted Activities, District shall provide GLWA with a work plan for review and approval. Permitted Activities may commence upon GLWA approval of the Work Plan. Such approval will not be unreasonably withheld or delayed, but may include conditions.
4. **Term:** This Agreement shall be effective on the date on which it is signed by the latter of the two Parties ("Effective Date"), and shall expire upon completion of the Permitted Activities (whereupon District will give notice thereof to GLWA) or six (6) months from the Effective Date, whichever is sooner, except for provisions expressly designated in this Agreement as surviving the termination date. GLWA reserves the right to immediately request that District cease work on the Permitted Activities, and District upon receipt of such request shall immediately cease work on the Permitted Activities.
5. **District's Representations:** In completing the Permitted Activities:
  - a. District shall use all commercially reasonable efforts to avoid: (i) damage to the Property and persons and personal property thereon; and (ii) interference with GLWA's or any other party's operations at the Property.
  - b. District shall, at its expense: (i) comply with all laws and all commercially reasonable procedures established by GLWA with respect to the Permitted Activities and the requirements of any insurance carriers insuring the Property; and (ii) obtain all permits, if any, required for the Permitted Activities and promptly deliver copies of such permits to GLWA at GLWA's request; provided, however, if District's

performance of the Permitted Activities requires the issuance or modification of any permit in GLWA's name, District shall prepare and pay the full costs of any such new or modified permit.

c. District agrees, at its expense, to repair any damage to the Property resulting from its use within thirty (30) calendar days of such occurrence or the expiration of this Agreement, whichever occurs sooner, and to leave the Property in substantially the same condition it was in prior to the Project.

d. In the course of performing the Permitted Activities, neither District nor its Representatives shall construct any structure or other improvement of any kind or grade or move any earth, except as required for customary engineering work incident to the Permitted Activities.

e. If necessary, District shall, at no expense to GLWA, provide police supervision, security, establish detours and post all necessary signs and other traffic control devices.

f. Any work performed for the District by a Representative will be solely as a Representative for the District and not as a Representative of GLWA. Any claims by any District Representative related to the Project will be the sole responsibility of the District. GLWA shall not be subject to any obligations or liabilities by the District or its Representatives.

**6. Indemnification:**

a. To the extent permitted by law, District shall indemnify, defend, and hold GLWA, City of Detroit, GLWA's officers, agents and employees involved in the Property harmless from and against any and all claims, losses, damage, injuries, liabilities, fines and penalties arising from the access to the Property and the conduct of the Permitted Activities on the Property granted hereunder, and caused by District or its Representatives, including, by way of limitation: (i) any use of the Property by District or its Representatives; (ii) any act or omission of District or its Representatives; (iii) any bodily injury, property damage, accident, or casualty caused by the acts or omissions of District or its Representatives; (iv) any violation or alleged violation by District or its Representatives of any law or regulation in force during the term of this Agreement; (v) any loss or theft whatsoever of any property of District or Representatives or anything placed or stored by District or its Representatives on or about the Property; (vi) any breach by District of its obligations under this Agreement; and (vii) any enforcement of GLWA of any provision of this Agreement and any cost of removing District from the Property or restoring the same as provided herein. District's obligation to indemnify GLWA and its Representatives hereunder shall survive the termination of this Agreement.

b. Indemnity under this Section 6 must not in any way be construed as a waiver of any governmental immunity to which any party may be entitled, as provided by law.

**7. Insurance:**

a. District and its Representatives shall comply fully with GLWA's insurance requirements as set forth in this Section 8, prior to entering the Property to conduct Permitted Activities.

b. District's Representatives shall obtain, and throughout the Term maintain, workers' compensation insurance to cover any employees engaged in the Permitted Activities.

c. District's Representatives shall obtain, and throughout the Term maintain, contractor's general and/or professional liability insurance of not less than \$2,000,000 combined single limit bodily injury,

death and property damage liability per occurrence from a reputable company or companies approved by GLWA and licensed to do business in the State of Michigan. District's Representatives' insurance policies shall name "Great Lakes Water Authority" and "City of Detroit" as additional insureds on an ACORD 25 form satisfactory to GLWA.

d. All insurance policies maintained by District's Representatives under this Section shall provide for a minimum of ten (10) calendar days' notice of cancellation of any insurance required under this Section 8, be endorsed to provide a waiver of subrogation to GLWA, its Representatives, Detroit and be primary to any other insurance coverage available to GLWA, and any insurance carried by GLWA and its Representatives will be excess and non-contributory.

e. District's Representatives shall obtain and deliver to GLWA a certificate or certificates of insurance evidencing the coverage required by this Section in advance of any access to the Property.

8. **No Representations:** GLWA makes no representations or warranties as to the physical or environmental state of the Property or with respect to its compliance or non-compliance with any law, regulation or ordinance. District expressly assumes any and all costs, dangers, risks, and hazards associated, known or unknown, with its access, use and presence at the Property. All persons who enter upon the Property pursuant to this Agreement do so at their own risk, and shall comply with any and all reasonable instructions and directions of GLWA. District shall cause such persons to observe strict fire and smoking precautions, and shall ensure that no fires are lighted on the Property and that no firearms or intoxicating liquor shall be carried onto the Property by any persons entering thereon pursuant hereto and otherwise comply with GLWA's health and safety policies. GLWA shall have no duty to inspect the Property to which this Agreement applies and shall have no duty to warn any person of any latent or patent defect, condition or risk that may exist in the Property or that might be incurred in the exercise of the rights granted herein.

9. **Notice:** District, through its Representatives, will notify GLWA two (2) business days before accessing the Property, except in the event of any emergency or where otherwise required by law. All notices required to be given pursuant to this Agreement shall be sent by certified or registered mail, or by an overnight courier (Federal Express or U.P.S.), along with an electronic mail copy to the following addresses:

To GLWA:

General Counsel  
Great Lakes Water Authority  
735 Randolph, Suite 1901  
Detroit, MI 48226  
Randal.Brown@glwater.org and

To Macomb Interceptor Drain Drainage  
District:

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10. **Compliance with Laws:** District must comply with and must require its employees to comply with all applicable Federal, state and local laws and regulations. District agrees that it will hold GLWA harmless with respect to any damages arising from any violation of this Section 10, whether the damages are caused by the non-compliance of the District or by that of District employee(s) or Representatives.



11. **Governing Law:** Any legal suit, action or proceeding arising out of or based upon this Agreement may be instituted in courts of the State of Michigan. This Contract and all actions arising here from shall be governed by, subject to and construed according to the laws of the State of Michigan.

12. **Entire Agreement:** The terms and conditions of this Agreement shall not be modified other than by a written agreement signed by both parties, all of which together with this Agreement constitute the entire agreement between the Parties with respect to access to the Property and conduct of the Permitted Activities.

13. **Severability:** If any term of this Agreement is found to be unenforceable in any jurisdiction, then such term shall be enforced to the maximum extent permitted by law, rather than voided, and the remaining terms of this Agreement shall remain in full force and effect.

14. **Assignability:** Neither this Agreement, nor any rights hereunder, may be assigned, whether voluntarily or by operation of law.

15. **Survival:** The terms and conditions provided in Sections 6, 7 and 9 shall survive the termination of this Agreement.

16. **Authority:** The Parties or their duly authorized representatives hereby represent and warrant that each has the requisite authority to execute this agreement, and have signed this Access Agreement effective on the date specified below.

Great Lakes Water Authority  
District

Macomb Interceptor Drain Drainage  
District

By: \_\_\_\_\_

By: \_\_\_\_\_

Sue F. McCormick, CEO

Its: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Approved to Form by GLWA General

Counsel: \_\_\_\_\_



**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: January 31, 2018

Subject: SAW Grant 1128-01 Additional Video Inspection

The current MID inspection and condition assessment that is under way as part of SAW grant 1128-01 and being performed by RedZone Robotics, Inc. with engineering support from Giffels Webster is essentially complete minus two segments of pipe. The first is the drop connection at CT-S-3 (18 Mile and Garfield) and the second is the blind tap from the 15 Mile Interceptor to the Romeo Arm at 15 Mile and Garfield. These two segments were attempted to be inspected by RedZone Robotics, Inc., but unfortunately, due to high flows in the system, were unsuccessful.

We have been working with RedZone to provide quotes to investigate these two segments by using additional measures and have received quotes back in the amounts of **\$119,743** and **\$129,500**. The MCPWO staff felt that these were too high and that a different approach could be taken to successfully finish that inspection. Without dictating means and methods to RedZone, ideas were presented to them, but they felt that those ideas were not risks that they were willing to take.

MCPWO and Giffels Webster then reached out for an additional quote from Doetsch Environmental Services to perform the work and their number was a not-to-exceed total of **\$29,000**. This number falls more in line with MCPWO and Giffels Webster projections for cost.

Due to the timelines associated with this project and the work now being performed by HRC to develop the project plan for the district by May 2018, we have given the go ahead to Doetsch Environmental Services to perform this work.

This project remains on time and I fully expect to stay under budget even with this additional task of **\$29,000**.

Attachments: Doetsch Quote 1/24/18  
Pipetek Quote #1 – 1/9/18  
Pipetek Quote #2 – 12/22/17

**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

# Doetsch

ENVIRONMENTAL SERVICES  
21221 Mullin Ave. Warren MI 48089

January 24, 2018

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

RE: Macomb County MID segments needing CCTV

Mr. Astorino,

Doetsch Environmental Services will provide necessary inspection equipment, confined space entry equipment and pneumatic plugs to cctv inspect short runs of pipe at 2 drop shafts.

Area #1 CT-S-3

Bulkheading of line by pneumatic plug or fabricated bulkhead.

Option #1: Pneumatic Plug \$2,500.00

Option#2: Fabricated bulkhead (to fit thru manhole) \$4,700.00

\$6,500 per day for crew, cse equipment and cctv equipment.

Estimated duration: 1 day

Area #2 Blind Tap at 15 Mile: Without any way to divert flow and I would assume bypass is out of the question, as well as the cone removal to insert a plug, I would propose a custom bulkhead:

- Modular to fit thru the manhole.
- Bulkhead would be assembled in sewer.
- Valves to release flow.
- Temporary bulkhead would be placed upstream.
- Site visit would be necessary for measurements and proper placement.

Initial site visit, traffic control, confined space entry, engineering and fabrication of bulkhead:  
\$10,600.00

\$7,200.00 per day for crew, cse equipment, traffic control (possible), lifting equipment for bulkhead and cctv equipment

Estimated duration: 1 day

Please contact me with any questions or concerns.

Thank you for the opportunity to be of service,



Joseph G Schotthoefer IV

RedZone Robotics  
91 43<sup>rd</sup> Street  
Suite #250  
Pittsburgh, PA 15201  
Attn. William Summerville

1/9/18

Dear William,

**Re: MI Macomb County MID SAW Grant Condition Assessments and  
Bypass Quote #2**

We are pleased to provide you with a quotation for the work as per your request.

Pipetek Infrastructure Services, along with Michigan Cat as a subcontractor, will provide labor, equipment, and materials to carry out the following;

- Pipetek will provide temporary pumping services for the Mid Interceptor Condition Assessments located in Macomb, MI.
- Per the contractor, the two sewer lines which require bypassing, a 54" and a 42" sewer pipe. The sewage will be pumped and discharged downstream using (2) 77hp electric submersible pumps
- Bypass will be completed for lines GI-CT-S-3-MH-001-GI-BLIND -TAP and 15MI-MH-001-RA-BUND-TAP
- Pipetek will provide and set two plugs, 54" and 42"
- The proposed system includes pumps, generators, pipe, fittings, setup/teardown, and transportation

We would carry out the above works with the rates as follows:

- Total Price for Project = \$119,743

Please note that our quotation does not include the following:

- Removal of suction manhole cone and temporary riser
- Storage area and security of equipment on site
- Traffic control, including cones or barricades for piping and pumps
- Permits and easement permission
- Cost of any site restoration required as a result of the use of the pumping equipment
- The actual inspection of the sewer lines. Pipetek has provided an additional quote for CCTV or equivalent inspection type
- If the situation arises which required installation of additional equipment, a mutually agreed upon price will be negotiated and a change order issued before additional work commences.

The Contractor is responsible for the following:

- The return of this rental agreement signed by an authorized representative of the Contractor, along with a 'Letter of Commencement' or a copy of the performance bond
- All applicable sales and use taxes
- All fuel and fueling operations required for the bypass pumping systems
- Loader and operator to assist in installation of the system (including forks for loading the fusion machine)
- Access and preparation of the site, including but not limited to leveling and clearing where needed
- Monitoring and maintaining safe levels of the sewerage within the sewer system
- 24 Hour pump watch as required – PIPETEK can provide this service at an additional cost
- A sufficient water supply for flushing the bypass pumping system upon project completion
- Payment within 30 days of invoice date – retainage is not accepted

I hope the above is to your satisfaction and look forward to working with you in the near future. If you have any questions, please call.

Regards,

Mike Hagan  
Project Manager  
Pipetek Infrastructure Services  
248-938-5020 mhagan@pipetekservices.com

Client Signature & Date: \_\_\_\_\_  
Client Name (Please print): \_\_\_\_\_

RedZone Robotics  
91 43<sup>rd</sup> Street  
Suite #250  
Pittsburgh, PA 15201  
Attn. William Summerville

12/22/17

Dear William,

**Re: MI Macomb County MID SAW Grant Condition Assessments and Bypass**

We are pleased to provide you with a quotation for the work as per your request.

Pipetek Infrastructure Services will provide labor, equipment, and materials to carry out the following;

**PROJECT DESCRIPTION**

PIPETEK will provide temporary pumping services for the Mid Interceptor Condition Assessments located in Macomb, MI.

Per the contractor, there are two sewer lines which require bypassing, a 54" and a 42" sewer pipe.

The 54" sewer line suction point will be at the GI-MH-008 manhole and will discharge at GI-MH-007 (1200 LF). PIPETEK will supply the contractor a bypass pumping system capable of exceeding flows of 4.2 CFS (1,900 gpm). The 54" sewer pipe is approximately 35 vertical feet below grade. It is anticipated that four road ramps will be necessary for this portion of work; PIPETEK has included a rental rate below.

The 42" sewer line suction point will be at the 15-MI-FR-S-1-MH001 manhole and will discharge to the north at 15-MI-MH002 (1300 LF). It is PIPETEK'S intention to have our discharge piping cross under 15 Mile Rd utilizing the Harrington Drain. PIPETEK will supply the contractor a bypass pumping system capable of exceeding flows of 2.0 CFS (900 gpm). The 42" sewer pipe is approximately 35 vertical feet below grade.

It is assumed that we will have sufficient access to the mainline sewer upstream of the pump station (the first manhole upstream) and sufficient access to return flows to the sewer downstream of the lift station.

Our quotation includes the cost for mobilization, installation, equipment rental, sewer plug purchase, and demobilization upon completion.

**SCOPE OF WORK**

**PIPETEK will be responsible for the following:**

- Assistance with the development of standard submittals required of the contractor by the engineer for the bypass pumping on the project
- Delivery of the bypass pumping equipment to job site
- Labor required for the installation of the bypass pumping system
- Equipment required for the operation of the bypass pumping, including the suction header, prime trash
- pump, discharge piping, isolation valves, etc.
- Regular preventative maintenance of the pumps for duration of project (oil changes, etc.)
- Labor required for the breakdown and removal of the bypass pumping system upon completion
- Demobilization of equipment upon completion

**Contractor is responsible for the following:**

- The return of this rental agreement signed by an authorized representative of the Contractor, along with a 'Letter of Commencement' or a copy of the performance bond
- All applicable sales and use taxes
- All fuel and fueling operations required for the bypass pumping systems
- Loader and operator to assist in installation of the system (including forks for loading the fusion machine)
- Access to the sewer system for a suction point and a discharge point, including removal of the cone section of the manholes (if necessary)
- Access and preparation of the site, including but not limited to leveling and clearing where needed
- Regular daily maintenance as required
- Monitoring and maintaining safe levels of the sewerage within the sewer system
- 24 Hour pump watch as required – PIPETEK can provide this service at an additional cost
- The installation of any and all bulkheads
- Any and all permits required
- Any and all traffic control needed as well as barricades needed to protect the site from passing traffic
- A sufficient water supply for flushing the bypass pumping system upon project completion
- Assistance in loading of equipment on PIPETEK trucks upon project completion
- All site restoration required as a result of the use of the pumping equipment
- Payment within 30 days of invoice date – retainage is not accepted





**QUOTE PRICE FOR PROJECT**

- Total Price for Project = \$129,500.00

I hope the above is to your satisfaction and look forward to working with you in the near future. If you have any questions, please call.

Regards,

Kyle Dehne  
Managing Director  
Pipetek Infrastructure Services

Client Signature & Date: \_\_\_\_\_

Client Name (Please print): \_\_\_\_\_

Macomb Interceptor Drain - 2/12/18

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance
Macomb Interceptor Drain Administration	Chapter 20 Chesterfield - 7.06912% Clinton - 21.19453% Fraser - 4.20779% Harrison - 5.83288% Lenox - .76183% Macomb - 13.78561% New Haven - .80870% Shelby - 9.87770% Sterling Heights - 31.74642%	Baker	Aloia & Associates, P.C.	\$ 2,052.00	Invoice #16724 - 12/1/17 Legal Services - ending 11/30/17	Sterling Heights vs. MIMDD	
		Baker	Aloia & Associates, P.C.	\$ 1,358.50	Invoice #16822 - 1/1/18 Legal Services - ending 12/31/17	Sterling Heights vs. MIMDD	
		Astorino	Complete Interactive Technologies, Inc.	\$ 3,857.80	Invoice #54538 - 12/8/17	SCADA Upgrade	
		Astorino	DTN, LLC	\$ 706.13	Invoice #5257324 - 1/19/18	Storm Sentry Subscription	
		Astorino	Equipment Fund	\$ 1,076.00	Invoice #59133250 - 10/13/17	Reimburse Equipment Fund - Monitors	
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 2,416.20	Invoice #371982 - 1/8/18 Engineering Services - ending 12/29/17	GLWA Assistance	
		Astorino	Giffels Webster	\$ 87,554.28	Invoice #115227 - 11/22/17 Engineering Services - ending 11/4/17	Inspection Program & Grant Management MID Sewer Inspection Work - RedZone	\$ 954,487.72
		Astorino	Giffels Webster	\$ 31,035.00	Invoice #115461 - 12/19/17 Engineering Services - ending 12/2/17	Inspection Program & Grant Management MID Sewer Inspection Work - RedZone	\$ 923,452.72
		Astorino	Hubbell, Roth & Clark, Inc.	\$ 550.34	Invoice #0157875 - 1/12/18 Engineering Services - ending 12/30/17	MID Condition Assessment	\$ 89,449.66
		Astorino	Johnson & Anderson	\$ 1,100.00	Invoice #41173 - 12/15/17 Engineering Services - ending 12/2/17	Conversion of MCMARS to Bluelwater	\$ 6,370.00
		Astorino	Macomb County Department of Roads	\$ 531.01	Invoice #300889 - 1/31/18	Vehicle Fuel	
		Astorino	Macomb County Treasurer	\$ 156,785.00	Invoice #7750-2017 - 1/2/18	Reimbursement for Administrative Personnel 7/1/17 - 6/30/18	
		Astorino	METCO Consulting Engineers	\$ 1,921.79	Invoice #1615-14 - 1/4/18	Operations Management (Terry Moore)	
		Astorino	Motor City Electric Technologies, Inc.	\$ 678.44	Invoice #91407 - 11/9/17	Symantec Anti-Virus Renewal	
		Astorino	Motor City Electric Technologies, Inc.	\$ 3,748.00	Invoice #91462 - 12/12/17	Reconfigure all OSFP routing between sites or radio link	
		Astorino	City of Mount Clemens	\$ 22,653.87	Invoice #12348 - 1/9/18	Sewage Flow Billing - 11/18/17 - 12/22/17	
		Barrios	RedZone Robotics, Inc.	\$ 344,576.43	Construction Estimate #3 - 1/3/18	MID Condition Assessment	\$ 438,197.66
Astorino	Sprint	\$ 855.61	Invoice #578736375-075	Monthly Cell - 11/24/17 - 12/23/17			
Baker	Viviano Law	\$ 6,071.30	Invoice #19545 - 1/4/18 Legal Services - ending 12/31/17	Sterling Heights vs. MIMDD			

Macomb Interceptor Drain - 2/12/18

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>	
Macomb Interceptor Drain (Continued) Clintondale P.S.		Astorino	Clinton Township	\$ 546.00	Monthly Water - 11/20/17 - 12/28/17	Install 2 duplex outlets in office		
		Astorino	Colville Electric Co., LLC	\$ 580.00	Invoice #17-1070 - 3/26/17	Replace corroded push button for overhead door		
		Astorino	Colville Electric Co., LLC	\$ 795.90	Invoice #17-1135 - 4/2/17			
		Astorino	Cummins Sales & Service	\$ 1,659.00	Invoice #006-58054 - 1/20/18	PLC communication failure		
		Astorino	DE-CAL, Inc.	\$ 1,040.00	Invoice #WO17000913 - 1/4/18	Monthly ARV Maintenance		
		Astorino	DE-CAL, Inc.	\$ 4,626.75	Invoice #WO17250281 - 1/4/18	Valve replacement on ARV		
		Astorino	DE-CAL, Inc.	\$ 2,430.00	Invoice #WO18250021 - 1/25/18	Replace defective "high limit safety" control; replace defective "temperature control";, replace all burnt wire & connectors		
		Astorino	DE-CAL, Inc.	\$ 1,385.00	Invoice #WO18000911 - 1/31/18	HVAC Maintenance		
		Astorino	DTE Energy	\$ 21,781.18	Monthly Electrical - 12/4/17 - 1/3/18	Stormwater Pumps		
		Astorino	Galco	\$ 697.50	Invoice #AA8431301 - 1/3/18	VFD Filters		
		Astorino	Kennedy Industries	\$ 2,317.50	Invoice #600715 - 1/16/18	Change oil in four pumps		
		Astorino	Motor City Electric Technologies	\$ 10,523.18	Invoice #91466 - 12/5/17	Primary power transformer replacement		
	15 Mile Sinkhole		Baker	\$ 4,082.85	Invoice #16722 - 12/1/17	Sinkhole		
			Baker	\$ 3,152.25	Legal Services - ending 11/30/17	Sinkhole		
			Bantios	\$ 2,988.85	Invoice #16820 - 1/1/18	Paving Restoration		
			Bantios	\$ 574.08	Invoice #0116116 - 12/6/17	Engineering Services - 10/16/17 - 11/12/17	Sewer Lining	
			Bantios	\$ 574.08	Invoice #0116117 - 12/6/17	Engineering Services - 10/16/17 - 11/12/17	Soil Boring Investigation	
			Bantios	\$ 25,956.00	Invoice #0116118 - 12/6/17	Engineering Services - 10/16/17 - 11/12/17	PCI 12A Cleaning & Repairs	
			Bantios	\$ 2,801.06	Invoice #0116119 - 12/6/17	Engineering Services - 10/16/17 - 11/12/17	Recovery Shaft	
			Bantios	\$ 357,227.94	Invoice #0116200 - 12/11/17	Engineering Services - 10/16/17 - 11/12/17	PCI 12A Cleaning & Repairs	
		Bantios	\$ 510.78	Invoice #0116457 - 12/22/17	Engineering Services - 11/13/17 - 12/10/17	MASW Investigation - Soil Borings		
		Bantios	\$ 6,031.88	Invoice #0116458 - 12/22/17	Engineering Services - 11/13/17 - 12/10/17	Recovery Shaft		
		Bantios	\$ 155,304.77	Invoice #0116459 - 12/22/17	Engineering Services - 11/13/17 - 12/10/17	Recovery Shaft		
		Bantios	\$ 2,753.39	Reimbursement & Release Agreement	Recovery Shaft			
		Bantios	\$ 76,826.56	Construction Estimate #10 - 2/2/18	15 Mile Odor Control			
		Astorino	\$ 3,852.66	Monthly Electrical - 11/22/17 - 12/21/17	Sinkhole Hardware Storage Prep			
		Bantios	\$ 17,942.67	Invoice #114950 - 10/19/17	Pipe & Material Storage			
		Bantios	\$ 5,846.11	Invoice #AFP 201609 - 1/12/18				
		Bantios	\$ 750.00	Invoice #209 - 1/12/18				

Macomb Interceptor Drain - 2/12/18

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance		
Macomb Interceptor Drain (Continued) Meters	SRF 5487-01	Astorino	DTE Energy	\$ 559.74	Monthly Electrical - 11/18/17 - 12/19/17	16 Metering Sites			
		Astorino	DTE Energy	\$ 621.48	Monthly Electrical - 12/20/17 - 1/23/18	16 Metering Sites			
		Stockel	DTE Energy	\$ 750.00	Installation of underground for new meter. To be reimbursed by Clinton Twp.	CT-S-7 - 15 Mile/Hayes			
		Astorino	HESCO	\$ 4,219.00	Invoice #10165 - 12/4/17	MID Meter Repair			
		Astorino	HESCO	\$ 3,721.00	Invoice #10182 - 1/3/18	MID Meter Repair			
		Astorino	HESCO	\$ 15,010.00	Application #13 - 12/13/17	MID Meter Maintenance			
		Astorino	HESCO	\$ 14,740.00	Application #14 - 1/12/18	MID Meter Maintenance			
		Bantios	Hubbell, Roth & Clark, Inc.	\$ 8,206.50	Invoice #0157492 - 12/22/17 Engineering Services - ending 12/2/17	Meter Pit Rehabilitation	\$0		
		NGI		Astorino	DE-CAL, Inc.	\$ 2,398.00	Invoice #WO170008410 - 1/4/18	Monthly ARV Maintenance	
				Astorino	DTE Energy	\$ 1,154.48	Monthly Electrical - 11/30/17 - 12/29/17		
				Astorino	National Industrial Maintenance	\$ 975.00	Invoice #30728 - 11/30/17	Yactor Rock Basket	
		OMID		Astorino	Oakland County Treasurer	\$ 4,331,353.33	Invoice #SDS0005489 - 1/2/18	Sewage Disposal Charges - December 2017	
				Astorino	Oakland County Treasurer	\$ 4,331,353.33	Invoice #SDS0005396 - 2/1/18	Sewerage Disposal Charges - January 2018	
Manning	Oakland County Treasurer			\$ 1,503,863.43	Invoice #SDS0005524 - 2/1/18	Principal Payment - \$0.00 Series 2010 Interest Series 2011 Interest Series 2013A Interest Series 2015 SAW Loan Series 2010B - Debt Service Fee Semi-Annual Paying Agent Fee Interest on Bonds			
Manning	Oakland County Treasurer			\$ 185,618.14	Invoice #SDS0005536 - 2/1/18				
Manning	Oakland County Treasurer			\$ 60,488.42	Invoice #SDS0005544 - 2/1/18	Series 2014A - Debt Service Semi-Annual Paying Agent Fee Interest on Bonds			
Baker	Viviano Law			\$ 593.20	Invoice #19547 - 1/4/18 Legal Services - ending 12/31/17	OMIDDD Litigation			
<b>Total</b>				\$ 11,850,136.61					

Income Statement  
MIDDD  
As of January 31, 2018

	30-Jun-17 Total Fund	7-1-17 to 1-31-18 O&M*
Revenues		34,627,397.00
Expenditures		52,978,594.68
Equity	33,301,122	

**NOTES**

Projected reserve at 6/30/2018 is

\* Includes following Projects:

Dec 2016 Sinkhole

9,500,000

70,000,000

75,281,735

5,150,000

68,592,943

131,735

6,688,792

2017A Bond

State Grant

Clinton Twp share of AEW invoice

4 SAW Grants

868,259

Revenue

804,774

Expenditures

63,485

Net

Sewage Metering(SRF 5487-01)

56,307

Revenue

(23,184)

Expenditures

79,491

Net