

Miller
Santo
VanSyckel

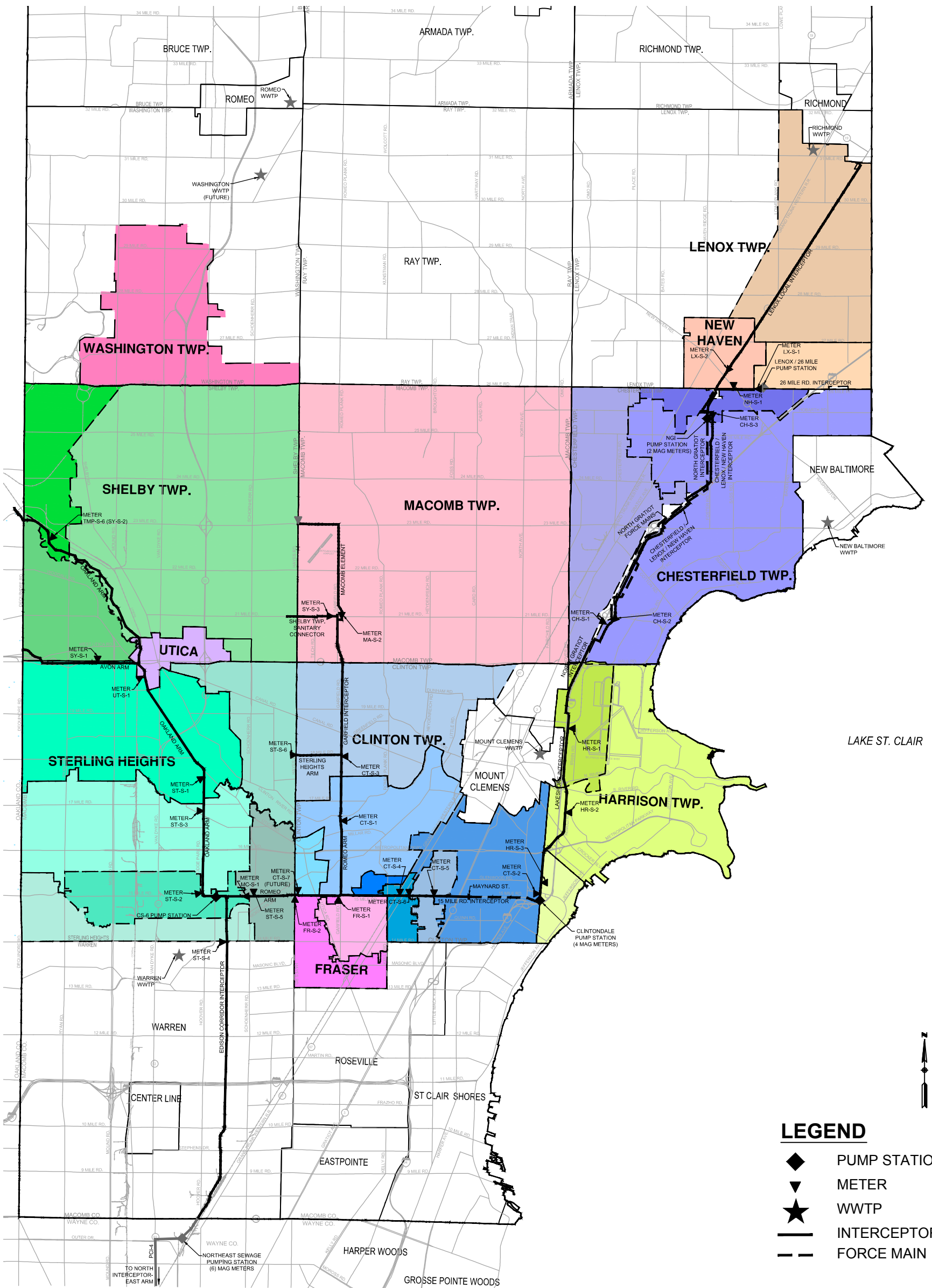
MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
JANUARY 10, 2022
10:45 A.M.
AGENDA

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

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

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for January 10, 2022	
3. Approval of Minutes for December 13, 2021	3
4. Public Participation	
5. Project Updates – Stephen Downing	6
6. Consideration for approval of invoices (see attached)	17
7. Financial Report – Bruce Manning	18
8. Adjourn	

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



Candice S. Miller

MACOMB COUNTY PUBLIC WORKS COMMISSIONER



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, and virtually per the State Public Act 254 of 2020, on December 13, 2021, at 10:41 A.M.

PRESENT: Brian Baker, Acting Chair

Bryan Santo, Member

ABSENT: Don VanSyckel, Member

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

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

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of November 8, 2021 were presented. A motion was made by Mr. Santo, supported by Mr. Baker to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

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

Mr. Downing updated the board that work on Segment 5 shaft has been excavated down to final depth and the grout is being injected to keep the tunnel stable and to allow work to continue.

Phase 2 grouting is still progressing along well with the work still being done in the evening for flow control purposes.

The Meter Rehab project is ready to close out.

The Segment 6 rehabilitation is moving along well. Shaft excavation is down to final depth and they will be working on the tunnels soon. There are some traffic control issues that we will be working with the cities and sheriff's office to reduce the traffic issues.

The Interceptor Inspection Program has started to move along after a slower November due to competing flow control demands.

A motion was made by Mr. Santo, supported by Mr. Baker to receive and file the project updates by Mr. Downing.

Adopted: YEAS: 2
NAYS: 0

Mr. Downing updated the board that the Meter Rehab project was extended out longer than anticipated due to many unforeseen circumstances resulting in additional cost. The contractor did absorb much of the cost, and the additional cost of this change order will take them through completion of the project.

A motion was made by Mr. Santo, supported by Mr. Baker to approve Change Order #3 with HRC for \$58,000 for additional Construction Contract Administration costs incurred during the meter rehabilitation project.

Adopted: YEAS: 2
NAYS: 0

Mr. Downing updated the board that last December we had a sudden collapse of the upper portion of the retention system at CS-12. The shaft was recovered and a claim was made with insurance. Meadowbrook helped get the claim resolved and this change order closes out that claim. There is no cost to the MIDD.

A motion was made by Mr. Santo, supported by Mr. Baker to approve the Oscar Renda Change Order No. 1 for the net increase of \$349,917.81 and the additional 22 days to the schedule.

Adopted: YEAS: 2
NAYS: 0

A motion was made by Mr. Santo, supported by Mr. Baker to approve the FK Engineering Change Order No. 5 for the net increase of \$77,774.90.

Adopted: YEAS: 2
NAYS: 0

Mr. Downing updated the board that when we originally designed the CS-12 structure, the pump station was intended to be temporary. We identified many future advantages in making this a permanent pump station for future projects and would like to approve Oscar Renda to continue with their work on the station.

A motion was made by Mr. Santo, supported by Mr. Baker to approve the Oscar Renda Change Order No. 2 for the net increase of \$1,187,585.58 and the addition of 30 days to the schedule.

Adopted: YEAS: 2
NAYS: 0

Mr. Downing updated the board that there were two separate delays to the Segment 5 project due to the Northeast Pump Station being down. Oscar Renda lost time as a result. Mr. Downing will look into recovering some of the costs from OMID and bring back to the board in January.

A motion was made by Mr. Santo, supported by Mr. Baker to approve the Oscar Renda Change Order No. 3 for the net increase of \$327,244.93 and the addition of 29 days to the schedule.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$6,208,374.37 to the board for review and approval.

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

Adopted: YEAS: 2
NAYS: 0

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

Adopted: YEAS: 2
NAYS: 0

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

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 11:20 a.m.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on December 13, 2021 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

DATED: 12/13/21



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: File

From: Stephen Downing, Construction & Maintenance Manager

Date: January 10, 2022

Subject: Construction Projects Status Updates for January 2022 Board Meeting

The following provides a status update for construction work performed within the Macomb Interceptor Drain Drainage District for the previous month.

Segment 5 Rehabilitation

Contractor: Oscar Renda

Engineering Consultant: FK Engineering

Project Description:

The Segment 5 reach of the Romeo Arm Interceptor is approximately 8,300 linear feet; it runs along 15 Mile Road starting at the ITC Corridor and extends east to approximately Hayes Road. The first 7,000 linear feet is 11-foot diameter non-reinforced concrete pipe, and the next 1,300 linear feet is 8-foot diameter steel reinforced concrete pipe. The rehabilitation consists of debris removal, cleaning, and inspection of the pipe's invert. Next, HOBAS pipe will be used to slip line 7,000 linear feet of the 11-foot diameter sewer and the 1,300 linear feet section of 8-foot diameter pipe will be coated with a corrosion resistant geo-polymer spray applied coating. To facilitate this work, a new control structure and access shaft is under construction in the ITC Corridor. The new control structure will provide the contractor access to the sewer to facilitate the work and will also serve as a dewatering pump station to draw down the upstream water level in the sewer.

Significant project tasks that have occurred over the past month:

1. Continued development, review, and approval of the required construction submittals.
2. Ground dewatering well maintenance and monitoring.
3. Chemical Grout injection around the eye of the Interceptor within the CS-12 Shaft.
4. Completed the excavation and demolition of the Interceptor within the CS-12 Shaft.
5. Continued preparation work prior to starting the spray-lining activity between Fontana and Hayes, including:

- Installation of the temporary half-height bulk heads at the manholes both upstream and downstream of the area to be spray-lined.
- Preparation for the temporary by-pass pumping operation at 15 Mile & Hayes.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	10/21/2020	\$28,807,500.00
Current Contract Amount	12/31/2021	\$30,672,248.32
Total Spent to Date	12/31/2021	\$9,973,619.18
Remaining Budget	12/31/2021	\$20,698,629.14



Figure 1 – Finished Excavation at CS-12



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Figure 4 - MH-07 Interceptor Access Location for Spray-Lining Operation

Phase II Grouting

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: AEW

Project Description:

The Phase II Grouting project was awarded to Doetsch Environmental during summer 2020. The work includes chemical grouting of the sewer and manholes where infiltration is present. The work is planned in all reaches of the system not included in the Segment 5 or portion of the Romeo Arm rehabilitated during the 2016 Interceptor Collapse. The main areas of work include the Romeo Arm along Garfield Road between 15 Mile and Clinton River Roads, the Garfield Interceptor between Clinton River and 21 Mile Roads, and the Lakeshore Interceptor between the Clintondale Pump Station at 15 Mile and Union Lake and Joy Boulevard in Harrison Township. The chemical grouting is aimed to stop all active infiltration within the system in advance of future rehabilitation and maintenance projects.

Significant project tasks that have occurred over the past month:

1. The crew continued work in the Garfield Interceptor near Hall Road. This work is occurring during the evening and overnight hours due to flow storage during normal working hours.
2. The work was idled most of the month due to coordination with other work and the Holidays.
3. There was not an invoice submitted for the month of December.
4. The grouting crew is scheduled to resume in mid-January.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	6/24/2020	\$3,000,000.00
Total Spent to Date	12/1/2021	\$2,763,895.65
Remaining Budget	12/1/2021	\$236,104.35

Meter Facility Rehabilitation

Contractor: Weiss Construction

Engineering Consultant: HRC

Project Description:

The project includes the rehabilitation of three sewerage meter facilities; work includes removal and application of concrete surface repairs and protective coatings, televising, cleaning, and spray-lining the existing influent and effluent connecting sewers; rehabilitation existing adjacent sanitary manholes; improving access and safety features for maintenance personnel; and replacing existing electrical systems.

The sites, SY-S-1 and SY-S-2 are in Shelby Township and WA-S-1 is in Washington Township. The meter facilities are the point of transition of sewerage flow from the local systems into the MIDDD Interceptors. Each of the metering facilities provides the critical flow data required to allocate the billing apportionment for each of the MIDDD member communities.

The Shelby Township meter facilities, originally constructed by DWSD, have reached the end of their useful life and are need of rehabilitation. The MCPWO previously rehabilitated several of the older metering facilities in the system, which were also constructed by DWSD.

The Washington Township meter facility is currently owned by Washington Township, which is a unique situation in the MIDDD system. Typically, the MIDDD assumes ownership of the billing meter facilities, which includes operation and maintenance activity. As such, the MCPWO negotiated a transfer agreement with Washington Township to transfer ownership of this asset to the MIDDD. The two entities agreed to equitable cost sharing terms within the agreement.

The project was designed by Hubbell, Roth and Clark and the construction contract was awarded to Weiss Construction. The total construction cost for the project is \$857,159.00. The work started in April 2021.

Significant project tasks that have occurred over the past month:

1. The Contractor is finalizing the closeout documents.
2. The Owner, Engineer & Contractor conducted the punch list walk-thorough, the Contractor is performing the required work to fulfill the punch list.
3. The final balancing change order will be finalized in January for consideration during the February Board meeting.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	12/3/2020	\$857,159.00
Current Contract Amount	12/31/2021	\$863,168.85
Total Spent to Date	12/31/2021	\$770,291.64
Remaining Budget	12/31/2021	\$92,877.21

Segment 6 Rehabilitation

Contractor: Ric-Man Construction

Engineering Consultant: FK Engineering

Project Description:

The Segment 6 Rehab project includes the rehabilitation of these main elements:

1. Cleaning and slip-lining (Hobas) of the 5-foot diameter 15 Mile Interceptor from MH-01 at Garfield Road and 15 Mile to MH-04 approximately 2200 feet east along 15 Mile.
2. Cleaning and slip-lining (Hobas) the 1400 linear feet 11-foot diameter Romeo Arm Interceptor sewer between CS-3 on 15 Mile Road and CS-2 on Garfield north of 15 Mile Road.
3. Rehabilitation of the Meter Facility FR-S-1 on Garfield south of 15 Mile Road.
4. Rehabilitation and spray-lining of the CS-2 and CS-3 control structure facilities. These concrete structures have been damaged by H2S damage over time and need repair.
5. Installation of an air-jumper to be incorporated into the existing Biofilter facility. This is being done to address the high level of odor issues that have resulted over the years from the intersection of 15 Mile and Garfield.
6. Installation of a new gate control structure on the 15 Mile Interceptor. This will allow for the rehabilitation of the MH-01 structure and provide future storage options within that interceptor.

The project is scheduled to start in August 2021 and be completed in March 2023.

Significant project tasks that have occurred over the past month:

1. The Contractor continues to develop and submit the required submittals to the Engineer & Owner for review.
2. The Contractor completed the excavation for the CS-13 Structure.
3. The Contractor placed the concrete mud mat at the CS-13 Shaft.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	5/1/2021	\$13,541,545.00
Change Order No. 1	8/1/2021	\$132,664.70
Total Spent to Date	12/31/2021	\$2,005,443.90
Remaining Budget	12/31/2021	\$11,668,765.80



Figure 6 – CS-13 Shaft Excavation Complete & Prepared for Concrete

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Figure 7 – Placement of the CS-13 Concrete Mud Mat

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Interceptor Inspection Program

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: Fishbeck

Project Description:

The 2020 sewer inspection program was awarded to Doetsch Environmental Services in November 2020. The inspection program includes inspection of approximately 26 miles of sanitary sewer, 360 manholes and other aspects of the sanitary sewage infrastructure across multiple drainage districts, including the MIDDD.

The MIDDD portion of the inspection program includes 101,335 linear feet (19.25 miles) of pipe ranging in diameter from 24" to 132" and 145 manhole structures. Additionally, inspection of 8 junction chambers and 8 Drop Shaft/Connecting sewers will be performed.

The inspection interval for the entire system is based on a 3-year cycle, where non-reinforced concrete pipe is inspected every 3 years and reinforced concrete pipe is inspected every 6 years. The 2020 inspection program is the largest ever performed by the Macomb County Public Works Office. The project started in May 2021 and is expected to be completed in October 2021.

Significant project tasks that have occurred over the past month:

1. The Contractor completed the inspection of the Chesterfield Interceptor.
2. The Contractor continued the inspection of the large diameter pipes in the Garfield Interceptor at 21 Mile and Garfield working their way south along Garfield.
3. The Contractor did not submit a pay application for the month of December.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	1/19/2021	\$280,034.00
Total Spent to Date	11/1/2021	\$62,703.85
Remaining Budget	11/1/2021	\$217,330.15

***This Table reflects the MIDDD costs only.**

MACOMB INTERCEPTOR DRAIN
12.21.21

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
Macomb Interceptor Drain	Chapter 20						
	Chesterfield – 7.3432%						
	Clinton – 21.3460%						
	Fraser – 4.1370%						
	Harrison – 6.4221%						
	Lenox – 1.0652%						
	Macomb – 13.9284%						
	New Haven – .8271%						
	Shelby – 9.7757%						
	Sterling Heights – 30.7833%						
Utica – 1.6268%							
Washington – 2.7451%							
		Baker	Aloia & Associates, P.C.	\$ 617.50	Invoice #23148 - 11.1.21	Sale of 45345 Garfield Road	
		Astorino	Aquasight	\$ 239,060.00	Invoice #000670 - 12.7.21	COVID 19 - Monitoring - Grant Funded	\$ 1,062,790.00
		Astorino	City of Mt. Clemens	\$ 21,718.93	Invoice #28003703 - 12.6.21	Monthly Utilities - November 2021	
		Manning	Department of Roads	\$ 780.71	Invoice #302005 - 11.16.21	Fleet Fuel - October 2021	
		Astorino	DTE Energy	\$ 1,341.24	Invoice #S73TD-ZLR6J - 12.2.21	Monthly Electric - 10.30.21 - 12.1.21	
		Astorino	Fishbeck	\$ 3,525.00	Invoice #406507 - 11.30.21	GLWA Assistance through 11.26.21	
		Downing	Oscar Renda Contracting	\$ 1,480,657.85	Invoice #WO19024 Est #16 12.29.21	Romeo Arm Segment 5 Lining through 12.31.21	\$ 20,698,629.14
		Downing	Ric-Man Construction	\$ 447,778.42	Invoice #WO21026 Est #4 12.30.21	Segment 6 Services through 12.31.21	\$ 11,668,765.80
		Downing	Weiss Construction	\$ 37,968.61	Invoice #WO18351 Est #8 12.08.21	Meter Rehab - 10.16.21 - 12.08.21	\$ 92,877.21
<u>Meters</u>		Astorino	Aquasight	\$ 45,192.00	Invoice #000665 - 12.7.21	ACE Platform Phase 3 - Part 4 of 6	\$ 117,685.00
		Total		\$ 2,278,640.26			

Budget to Actual
MIDD
As of Dec 31, 2021 = 50%

DESCRIPTION	2022 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	47,284,425		23,644,479	23,639,947	50.0%
OMID O&M	3,827,015		1,913,508	1,913,508	50.0%
Settlement	100,000		427,693	(327,693)	427.7%
Reimbursements	200,000		35,569	164,431	17.8%
PY Revenue-Fund Balance	10,370,340			10,370,340	0.0%
Washington Twp Meter Project	47,470			47,470	0.0%
Reimb-Local Communities	16,476,210		8,238,105	8,238,105	50.0%
COVID Grant	-		624,158		
Interest	60,000		5,965	54,035	9.9%
Total Revenue Accounts	78,365,460	-	34,889,476	44,100,142	44.5%
EXPENSE ACCOUNTS					
GLWA-OMID	47,284,425		23,644,479	23,639,947	50.0%
OMID O&M	3,827,015		1,913,508	1,913,508	50.0%
Public Works Wastewater Disposal Division	1,702,960		807,329	895,631	47.4%
Office Operations/Insurance	332,250		108,047	224,203	32.5%
SCADA	280,490		52,700	227,790	18.8%
Engineering					
Replenish reserve from CPS refunding	618,680			618,680	0.0%
Segment 5(Paid from const/ eng reserve)	-		2,119,286	(2,119,286)	0.0%
Segment 6(lawsuit Settlement)	-		1,658,703	(1,658,703)	
GLWA Assistance	40,000		12,975	27,025	32.4%
Repair work stemming from inspection program/Phase III Grout	3,200,000			3,200,000	0.0%
Segment 6 Construction Admin	1,500,000		146,874	1,353,126	9.8%
Odor and Control Construction	6,000,000			6,000,000	0.0%
General Construction/Engineering Contingency-All Projects	225,000			225,000	0.0%
Aquasight-On going improvements to program	175,000		103,288	71,712	59.0%
As Needed Applied Science	25,000			25,000	0.0%
As Needed FK Engineering	60,000			60,000	0.0%
As Needed FTCH	50,000		15,733	34,267	31.5%
As Needed Metco	90,000		19,894	70,106	22.1%
As Needed Wade Trim	70,000		674	69,326	1.0%
Level Sensors/Pressure/H2S-Meters	214,200			214,200	0.0%
Meter Dye Testing(Part of carryforward below)	38,600		69,996	(31,396)	181.3%
Odor and Control-Construction	1,000,000			1,000,000	0.0%
Odor and Corrosion Design	375,260		298,686	76,574	79.6%
COVID Monitoring -Reimburse from grant	-		624,158	(624,158)	100.0%
Phase II Grouting	2,000,000		666,563	1,333,437	33.3%
Phase III Grouting	325,000			325,000	0.0%
Segment 6 Construction Administration	1,503,560			1,503,560	0.0%
SY-S-1, SY-S-2, & WA-S-1 Meter Const Admin/Rehab	1,804,590		523,171	1,281,419	29.0%
Wastewater Master Plan/Contract Capacity	330,050		18,958	311,092	5.7%
Data Review-Aquasight	24,090		22,596	1,494	93.8%
Legal Services	150,000		3,175	146,825	2.1%
Clintondale PS O&M	580,000		148,162	431,838	25.5%
NGI O&M	225,000		64,361	160,639	28.6%
Meters O&M	190,970		38,895	152,075	20.4%
CS-3 O&M	216,000		4,026	211,974	1.9%
Biofilter O&M	26,000		20,864	5,136	80.2%
Contribution Life Cycle Reserve	171,700			171,700	0.0%
Interceptor O&M	1,738,450		29,131	1,709,319	1.7%
Stormwater Pump Stations	91,000		45,500	45,500	50.0%
Sewage Disposal Charges - Mt. Clemens	200,000		75,828	124,172	37.9%
Debt Service - Revenue Bonds	1,680,170		840,085	840,085	50.0%
Total Expense Accounts	78,365,460	-	34,097,644	44,267,816	43.5%

	O&M Balance 6/30/2021	O&M	Total 12/31/2021
Cash - Operating	37,753,257	791,832	38,545,089
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		34,889,476	34,889,476
Expenditures		34,097,644	34,097,644
			0
Equity*	37,753,257		38,545,089

Detail of 2021 Equity*

Projected reserve at 6/30/2021	8,749,004
Projected Construction/ Engineering Reserve	28,001,153
Life Cycle Reserve	1,003,100