

Miller
Santo
VanSyckel

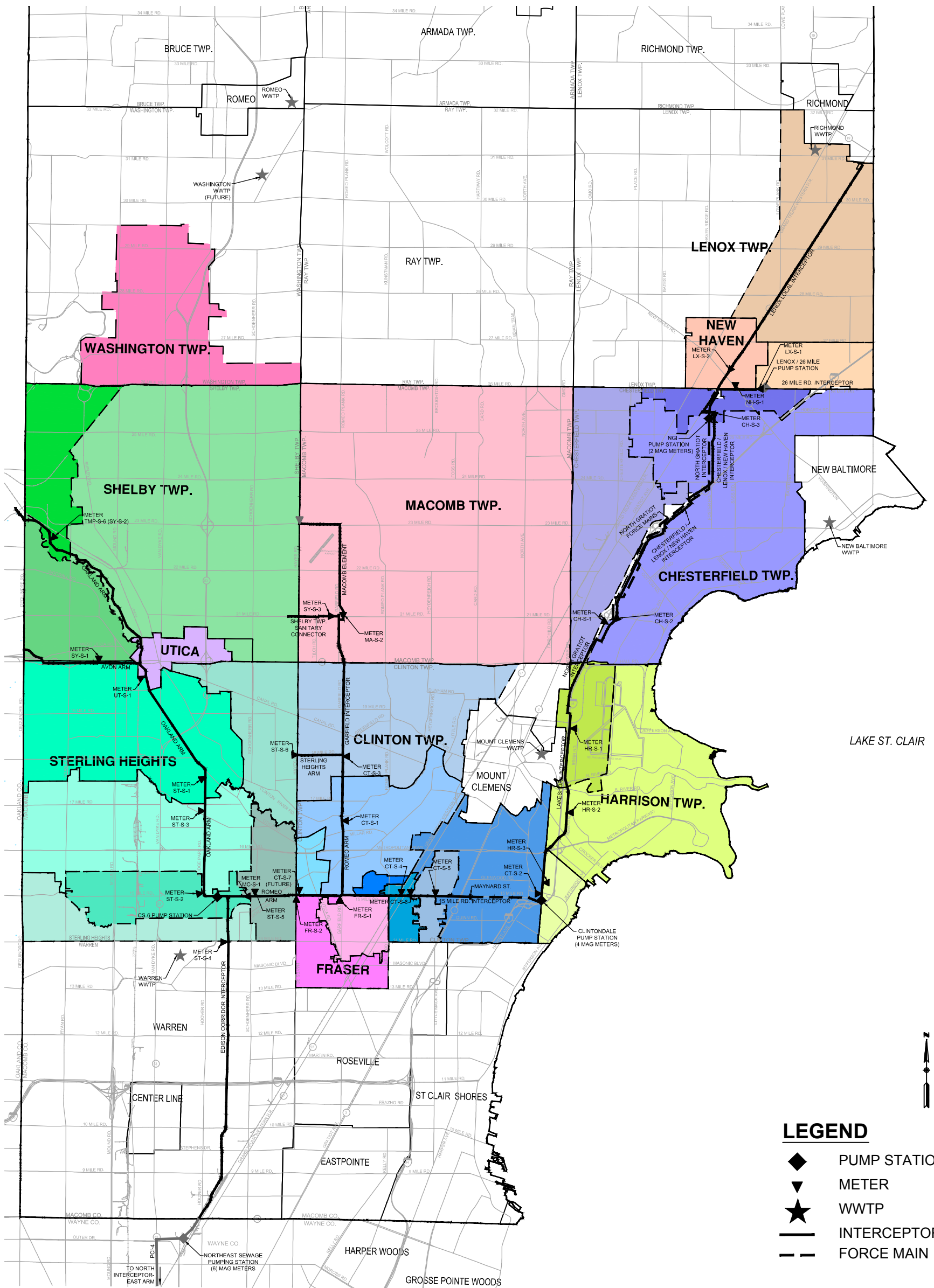
MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
JULY 12, 2021
10:30 A.M.
AGENDA

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

**Call in Number: 1-304-397-0482
Access Code: 127 484 588**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for July 12, 2021	3
3. Approval of Minutes for June 14, 2021	
4. Public Participation	
5. Project Updates – Stephen Downing	7
6. Consideration for approval of invoices (see attached)	20
7. Financial Report – Bruce Manning	21
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, on June 14, 2021, at 10:35 A.M.

PRESENT: Candice S. Miller, Chair
Don VanSyckel, Member
Bryan Santo, Member

ALSO PRESENT: Brian Baker, Chief Deputy, Jeff Bednar P.E., Environmental Resources Manager, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Norb Franz, Communications Manager, Danielle Devlin, Environmental Specialist, Macomb County Public Works; Sydney Hilgendorf, Sterling Heights, Dan Aviaciatto, Supervisor, Chesterfield Township

The meeting was called to order by the Chair, Candice S. Miller. A motion was made by Mr. VanSyckel, supported by Mr. Santo to approve the agenda as presented.

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of May 10, 2021 were presented. A motion was made by Mr. Santo, supported by Mr. VanSyckel 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. Downing presented a video to the board on how the Segment 5 Rehabilitation Project is moving along. The interceptor is exposed now, and the temporary flume is being installed. The project is moving along well.

Phase 2 grouting is still moving along again, and on target still after a temporary pause.

The Meter Rehabilitation Project is moving along on schedule in Shelby Township and Washington Township. DTE will be bringing power in soon, and bypass pumping is set up. The project should wrap up in July.

The Segment 6 Rehabilitation Project will be ready to launch in August.

The Interceptor Inspection Program is moving along well with no major issues found so far.

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

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that we did receive the State Wastewater COVID Detection no match grant for \$578,683 through at least September 30th, 2021.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to receive and file.

Adopted: YEAS: 3
NAYS: 0

Mr. Downing updated the board that we would like to bind the OCIP liability insurance coverage for the Segment 6 project as we have with our other large construction projects.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to authorize Meadowbrook Insurance Agency to bind insurance coverage for the General and Excess Liability Coverage for Segment 6 for an amount not to exceed \$434,920.

Adopted: YEAS: 3
NAYS: 0

Mr. Downing updated the board that we are recommending FK Engineering for the CCA services for the Segment 6 project, as they have done a great job on Segment 5.

A motion was made by Mr. Santo, supported by Mr. VanSyckel to approve the Change Order for FK Engineering to provide Construction Contract Administration services for the rehabilitation of Romeo Arm Segment 6 for the not to exceed amount of \$1,816,769.96

Adopted: YEAS: 3
NAYS: 0

Mr. Downing updated the board about additional drop shaft repair work needed. The manholes that were inspected back in 2016 had the highest priority and were fixed first. We are moving on to the next set that need rehabilitation. We would like FK Engineering to put together the drawings and specifics for this project before passing it along to Oscar Renda to provide us a proposal to complete the work and bring back to the Board for approval.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to approve the Change Order No. 4 for FK Engineering to provide Design & CCA Services for the Drop Shaft & Connecting Sewer Rehabilitation at FR-S-2 & CT-S-7 for the not to exceed amount of \$35,000.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that in 2019 we hired Aquasight to develop software for the billing meters through the MIDD which help to establish cost apportionment of different communities. All the data comes back to one central location that is cloud based that we can edit. Aquasight has built in other tools for us that have been very useful and we would like to allow access to the data for community use. Currently Phase 2 is being testing in a few communities, and Phase 3 will bring in more of the analytics to have the data readily available for those who need it.

A motion was made by Mr. Santo, supported by Mr. VanSyckel to award the Phase 3 implementation to Aquasight for data and rain gauge analytics in the amount of \$242,079.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that there are a series of valves at the Clintondale pump station, and one of them is manually controlled where a lot of hydrogen sulfide gas can be released when manually opened. We would like to install an automated actuator for the safety of the workers.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to approve the \$39,400 quote from DeCal, Inc. for the Clintondale Forcemain Valve Actuator project.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$1,311,711.70 to the board for review and approval.

A motion was made by Mr. VanSyckel, 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. VanSyckel.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. VanSyckel, 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 11:25 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, June 14, 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.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 6/14/21



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: July 12, 2021

Subject: Construction Projects Status Updates for July 2021 Board Meeting

The following provides a status update for construction work completed 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 geopolymer 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. Started installation of the temporary flume.
3. Performed routine maintenance on the groundwater dewatering system.
4. Due to a power failure at the NESPS work within the Interceptor was postponed for 1- week.
5. Work within the Interceptor was adversely impacted due to significant rain in the forecast.
6. A significant rain event on June 26, 2021 adversely impacted work within the Interceptor.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	9/21/2020	\$28,807,500.00
Total Spent to Date	7/1/2021	\$7,001,635.00
Remaining Budget	7/1/2021	\$21,805,865.00



Figure 1 – Temporary Internal Steel Rib Removal



Figure 2 - Temporary Internal Steel Rib Removal



Figure 3 - Installation of Temporary Flume

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. This work resumed this month in the Lakeshore Interceptor in the area beneath the Clinton River near North River Road and I-94. This location was completed.
2. The crew moved to LSI-MH-006 near I-94 and Ballard Street to grout the area beneath I-94.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	6/24/2020	\$3,000,000.00
Total Spent to Date	6/24/2021	\$2,108,320.80
Remaining Budget	6/24/2021	\$891,679.20



Figure 7 - Ventilation Set-up Near I-94



Figure 6 - Grouting Rigs at LSI-MH006 at Ballard Street



Figure 5 - Drilling for Grout Port Installation



Figure 4 - Infiltration at Crown of Interceptor

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 continued to develop and submit the required construction submittals for the Engineering team to review.
2. The Engineering team continued review and return of the required construction submittals.
3. The Contractor completed demolition of the old SY-S-2 metering facility equipment.
4. The Contractor started construction of the meter cabinet pad at SY-S-1 and SY-S-2.
5. The Contractor continued demolition of the existing meter and equipment at SY-S-1.
6. The Contractor started installation of new electrical conduits at SY-S-1 and SY-S-2.
7. The Contractor performed manhole structure modifications at SY-S-1.
8. The contractor abandoned the old SY-S-2 meter pit structure.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	12/3/2020	\$857,159.00
Total Spent to Date	6/25/2021	\$322,699.05
Remaining Budget	6/25/2021	\$534,459.95

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



Figure 10 - New Electrical Rack at SY-S-1



Figure 8 - New Electrical Conduit at SY-S-1



Figure 9 - Waterproofing Manhole Exterior



Figure 11 - Abandoning Existing Meter Pit at SY-S-2



Figure 12 - Placing Flowable Fill to Abandon Old Structure



Figure 14 - Waterproofing Exterior of Manhole at SY-S-2



Figure 13 - New Electrical Rack at SY-S-2

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 Engineering Consultant delivered the Contract Books to the Contractor for review and signature.
2. The Owner, Engineer and Contractor have been working on managing a Hobas cost increase due to unprecedented price escalation of raw materials (resin, glass) and trucking.
3. The Construction Notice to Proceed will be issue on August 7, 2021.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	5/1/2021	\$13,541,545.00
Total Spent to Date	7/1/2021	\$0
Remaining Budget	7/1/2021	\$13,541,545.00

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 system map on the next page illustrates how much of the system is scheduled for inspection and how much was inspected by 6/25/21.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	1/19/2021	\$280,034.00
Total Spent to Date	6/25/2021	\$37,730.10
Remaining Budget	6/25/2021	\$242,303.90

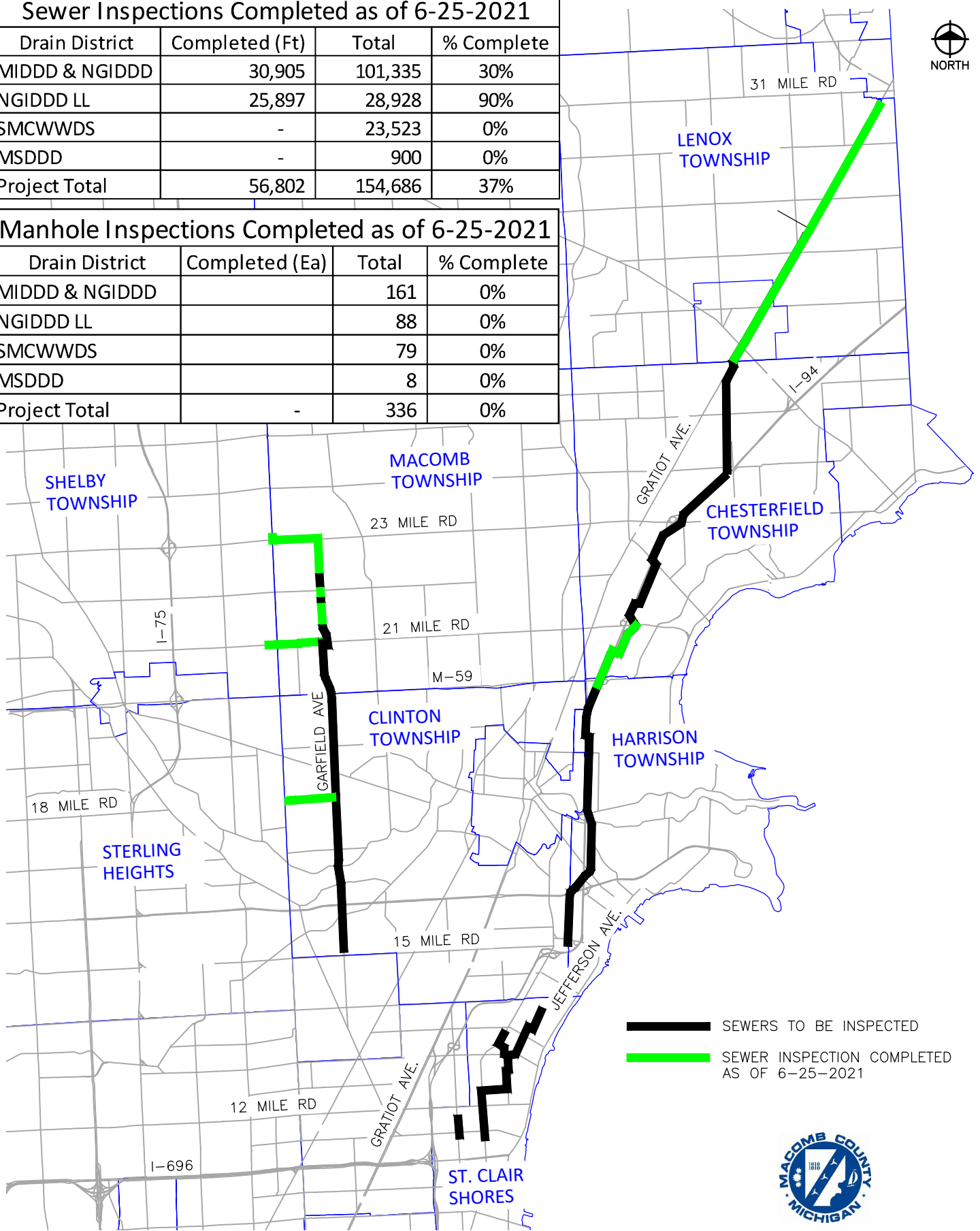
***This Table reflects the MIDDD costs only.**

Sewer Inspections Completed as of 6-25-2021

Drain District	Completed (Ft)	Total	% Complete
MIDDD & NGIDDD	30,905	101,335	30%
NGIDDD LL	25,897	28,928	90%
SMCWWDS	-	23,523	0%
MSDDD	-	900	0%
Project Total	56,802	154,686	37%

Manhole Inspections Completed as of 6-25-2021

Drain District	Completed (Ea)	Total	% Complete
MIDDD & NGIDDD		161	0%
NGIDDD LL		88	0%
SMCWWDS		79	0%
MSDDD		8	0%
Project Total	-	336	0%



SEWERS TO BE INSPECTED
 SEWER INSPECTION COMPLETED AS OF 6-25-2021



Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER

MACOMB INTERCEPTOR DRAIN - 6/15/21 - 7/7/21

<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%							
		Downing	Anderson, Eckstein & Westrick	\$ 11,828.00	Invoice #131820 - 6.15.21	Dropshaft & Connecting Sewer Rehabilitation	\$ 1,811.65	
		Astorino	Anderson, Eckstein & Westrick	\$ 9,507.75	Invoice #131823 - 6.15.21	Phase 2 Grouting through 6.6.21	\$ 189,287.80	
		Astorino	Bendzinski & Co.	\$ 25,000.00	Invoice #4442 - 6.9.21	Financial Advisor - Segment 6 SRF		
		Astorino	City of Mt. Clemens	\$ 15,131.92	Invoice #28002479 - 6.24.21	Monthly Utilities - May 2021		
		Manning	County of Macomb	\$ 294,310.90	Invoice #AR210594 - 6.9.21	Personnel/Operation Expenses 1st Quarter 2021		
		Downing	Department of Roads	\$ 1,050.00	Invoice #21-415 - 6.21.21	Permit Fees/Refundable Deposit Odor & Corrosion		
		Downing	Doetsch	\$ 171,571.80	Invoice #71649 - 6.27.21	Phase 2 Grouting through 6.24.21	\$ 891,679.20	
		Downing	Doetsch	\$ 37,730.10	Invoice #WO20004 App #1 5.31.21	2020 Inspection Program	\$ 242,303.90	
		Astorino	Fishbeck	\$ 1,500.00	Invoice #401768 - 6.16.21	GLWA Assistance through 6.11.21	\$ 10,789.37	
		Astorino	Fishbeck	\$ 3,192.00	Invoice #401769 - 6.16.21	NGI Pump Station Analysis through 6.11.21	\$ 59,957.88	
		Downing	FK Engineering	\$ 9,165.50	Invoice #20-058-013 - 5.19.21	Segment 6 Rehabilitation	\$ 1,718,332.85	
		Downing	FK Engineering	\$ 93,729.72	Invoice #20-152-007 - 6.18.21	Segment 5 Rehabilitation	\$ 1,791,899.15	
		Manning	Macomb County Treasurer	\$ 23,000.00	Invoice #1-2021 MIDD	Reimbursement to General Fund for Accounting		
		Astorino	METCO Consulting Services	\$ 7,027.21	Invoice #1717-24 - 7.1.21	Flow Control Services	\$ 93,784.54	
		Baker	Miller, Canfield, Paddock & Stone	\$ 42,500.00	Invoice #1521902 - 6.15.21	Segment 6 SRF		
		Astorino	Oscar Renda Contracting	\$ 141,030.00	Invoice #WO19024, Est #10 - 6.28.21	Romeo Arm Lining - Segment 5	\$ 21,805,865.00	
		Astorino	State of MI	\$ 1,100.00	Invoice #21-409 - 6.9.21	Filing Fee - Segment 6 SRF		
		Downing	TBM Property Management LLC	\$ 750.00	Invoice #578 - 7.1.21	Pipe and Material Storage - 2nd Quarter 2021		
		Downing	Tetra Tech, Inc.	\$ 44,215.18	Invoice #51754656 - 6.30.21	Odor & Corrosion Design	\$ 685,557.68	
		Sucharski	Verizon	\$ 1,083.76	Invoice #9882606192 - 5.23.21	Monthly Cellular - 5.24.21 - 6.23.21		
		Downing	Weiss Construction	\$ 112,698.90	Invoice #WO18351 EST #3 - 6.25.21	Metering Facility Rehab through 6.25.21	\$ 534,459.95	
		Biofilter		Astorino	City of Fraser	\$ 1,539.16	Invoice #21-413 - 5.19.21	Monthly Utilities - 4.16.21 - 5.18.21
CPS		Astorino	Spencer Oil Company	\$ 1,420.18	Invoice #8970592 - 6.9.21	Diesel Fuel		
NGI		Astorino	Cummins Sales & Service	\$ 1,352.24	Invoice #S6-70365 - 6.14.21	Preventative Maintenance - Generator		
		Downing	Fishbeck	\$ 4,818.55	Invoice #401807 - 6.16.21	Inspection Program Services through 6.11.21	\$ 251,461.92	
		Astorino	JGM Valve	\$ 682.46	Invoice #21-14609 - 6.18.21	Vent-O-Mat Float Set		
		Astorino	National Industrial Maintenance	\$ 1,875.00	Invoice #40178 - 6.10.21	Wet Well Cleanout		
Total				\$ 1,058,810.33				

Budget to Actual
MIDD
As of June 30, 2021 = 100%

DESCRIPTION	2021 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	47,262,993		47,269,358	(6,365)	100.0%
OMID O&M	3,828,987		3,828,987	-	100.0%
Settlement	100,000		12,500,000	(12,400,000)	12500.0%
EGLE Testing Grant	-		366,128	-	0.0%
SRF 5659-03	-		2,505,992	-	9.6%
Reimbursements	225,000		196,627	28,373	87.4%
PY Revenue-Fund Balance	8,388,627			8,388,627	0.0%
Washington Twp Meter Project	47,475			47,475	0.0%
Reimb-Local Communities	13,548,089		13,548,089	-	100.0%
Interest	250,000		45,382	204,618	18.2%
Total Revenue Accounts	73,651,171	-	80,260,563	(3,737,272)	109.0%
EXPENSE ACCOUNTS					
GLWA-OMID	47,262,993		47,269,358	(6,365)	100.0%
OMID O&M	3,828,987		3,828,987	-	100.0%
Public Works Wastewater Disposal Division	1,942,127		1,075,311	866,816	55.4%
Office Operations/Insurance	309,925		302,175	7,750	97.5%
SCADA	268,889		45,318	223,571	16.9%
Engineering					
Meter Dye Testing 2 year contract new this year	100,000		25,300	74,700	25.3%
Data Review-Aquasight	250,000		157,076	92,924	62.8%
Replenish reserve from CPS refunding	618,680		618,680	-	100.0%
Design Odor and Corrosion	750,000		119,070	630,930	15.9%
Construction Project for Odor and Control	1,000,000			1,000,000	0.0%
SY-S-1, SY-S-2, WA-S-1 Construction Admin	250,000		46,804	203,196	18.7%
FKE Rehab analysis phase 2	84,000		33,500	50,500	39.9%
Seg 5 Construction ⁽¹⁾	1,150,000		4,336,867	(3,186,867)	377.1%
Seg 5 Lining SRF(\$26 Million)	-		2,505,992	-	9.6%
Phase II Grouting	3,825,000		1,457,757	2,367,243	38.1%
GLWA Assistance	40,000		13,350	26,650	33.4%
Drop Shaft	-		1,556,121	(1,556,121)	100.0%
As Needed FTCH	75,000		32,911	42,089	43.9%
As Needed FK Engineering	75,000		6,898	68,102	9.2%
As Needed Wade Trim	75,000		5,545	69,455	7.4%
As Needed Metco	125,000		32,937	92,063	26.3%
As Needed Applied Science	25,000			25,000	0.0%
As Needed Odor and Corrosion	75,000		53,366	21,634	71.2%
Seg 5 Engineering Design ⁽¹⁾	374,557		618,286	(243,729)	165.1%
Contribution to Segment 5/Grouting	1,450,000		1,085,419	364,581	74.9%
15 Mile Inter Design East of Garfield (Segment 6)/Const Admin	1,500,000		550,239	949,761	36.7%
SY-S-1 & SY-S-2 Meter Design/Rehab	1,134,070		370,451	763,619	32.7%
Level Sensors/Pressure/H2S-Meters	250,000			250,000	0.0%
Wastewater Master Plan/Contract Capacity	400,000		82,650	317,350	20.7%
EGLE Testing Grant	-		330,304	-	0.0%
Washington Township meter	500,000			500,000	0.0%
Legal Services	250,000		24,373	225,627	9.7%
Clintondale PS O&M	639,500		250,166	389,334	39.1%
NGI O&M	230,000		124,859	105,141	54.3%
Meters O&M	253,470		230,313	23,157	90.9%
CS-3 O&M	226,000		7,110	218,890	3.1%
Biofilter O&M	22,500		14,124	8,376	62.8%
Contribution Life Cycle Reserve	171,700		171,700	-	100.0%
Interceptor O&M	1,900,000		56,389	1,843,611	3.0%
Stormwater Pump Stations	234,250		234,250	-	100.0%
Sewage Disposal Charges - Mt. Clemens	200,000		173,588	26,412	86.8%
Debt Service - Revenue Bonds	1,784,523		1,784,523	-	100.0%
Total Expense Accounts	73,651,171	-	69,632,067	6,855,400	94.5%

	O&M Balance 6/30/2020	O&M	Total 6/30/2021
Cash - Operating	24,226,346	10,628,496	34,854,842
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		80,260,563	80,260,563
Expenditures		69,632,067	69,632,067
			0
Equity*	24,226,346		34,854,842

Detail of 2020 Equity*

Projected reserve at 6/30/2020	6,818,887
Projected Engineering Reserve	12,920,000
Projected Sinkhole Surplus	3,656,059
Life Cycle Reserve	831,400

Note

1) Using proceeds from lawsuit settlement to fund Segment 5 construction and engineering