

Miller
Santo
VanSyckel

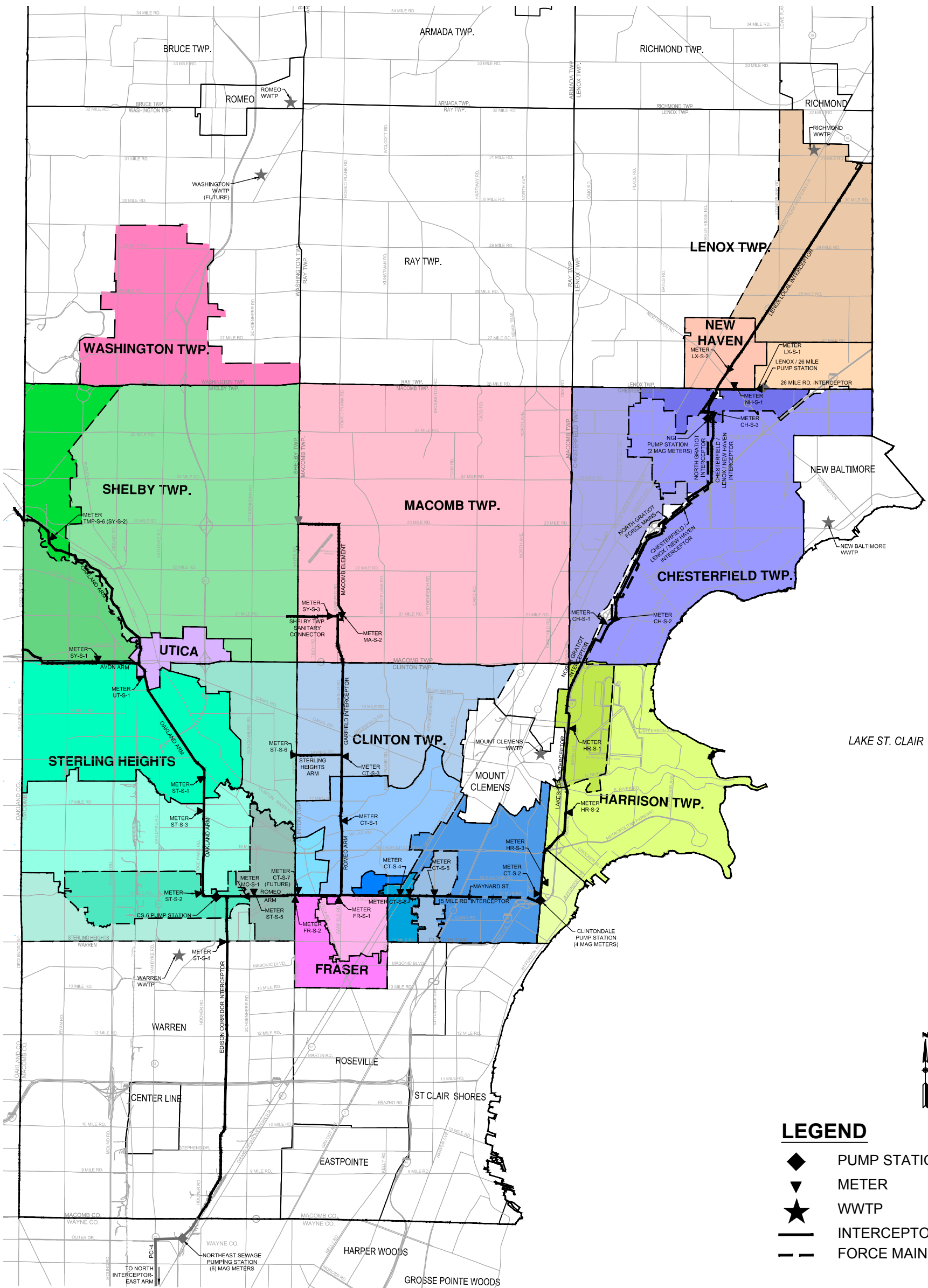
MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
MAY 15, 2023
11:00 A.M.
AGENDA

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

**Call in Number: 1-224-990-0182
Access Code: 927 405 823**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for May 15, 2023	
3. Approval of Minutes for April 10, 2023	3
4. Public Participation	
5. Project Updates – Stephen Downing/Vince Astorino	6
6. Consideration for approval of invoices (see attached)	32
7. Financial Report – Bruce Manning	34
8. Adjourn	

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



LEGEND

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



Candice S. Miller

MACOMB COUNTY PUBLIC WORKS COMMISSIONER

frch

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 April 10, 2023, at 11:32 A.M.

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

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Stephen Downing, Construction and Maintenance Manager; Jeff Bednar, Environmental Resources Manager; Dan Acciavatti, Deputy Government Relations; Bruce Manning, Financial Manager; Norb Franz, Communications Manager; Sarah Wojdyla, Drain Account Specialist

PRESENT VIA TELECONFERENCE: Madison Tanghe, Administrative Assistant; Mary Shepherd, Environmental and Safety Service Supervisor City of Sterling Heights

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 March 13, 2023 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 photos of the Segment 5 Romeo Arm Interceptor. The contractors continued with getting the pumps and electrical installed this past month. They started their acceptance testing this morning and will continue through the week. Next week they will flood the shaft to make sure everything is working well under flow conditions. The flume removal process starts next week and is expected to last 5-7 days, this will restore the sewage flow through the structure and then the drop pipes will be ready to be installed.

Mr. Downing next presented photos of Segment 6. We are continuing to work on getting the CS13 gates operational. Major focus this month was sealing up where the HOBAS damage is and sealing up the bulk heads.

Mr. Astorino then updated on the Garfield Interceptor Lining Project. As of March 18, 2023 the liner is fully in. The next step is working with the contractors to get the grouting plan finalized to fully seal everything up. Ms. Miller states that a full press release was put out this morning for this project for the media and on Facebook page.

Mr. Astorino updated on the Interceptor Inspection Program. The contractor is now complete with all their work. The contractor is reviewing all the data and preparing the inspection reports.

Mr. Downing said that there is nothing to report on Phase II grouting. The crew has not worked since July 2022 due to other competing project flow needs.

Mr. Downing updated on the Odor and Corrosion Control project. We have started installation of the temporary construction fence at the 21 Mile and Garfield site. Fraser's site will be started at the end of the month. All sites will be worked on at the same time, not staggered out.

Mr. Downing said that the 21 Mile Road and Garfield site traffic control should be tentatively completed by end of June with possible partial closure at a later date for final connections.

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

Adopted: YEAS: 3
NAYS: 0

Ms. Miller stated that a motion needed to be made for the MIDD portion of the Insurance Policy renewals, as discussed in Eight and One-Half Mile Relief Drain Board.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to approve the Chapter 20 General Liability Insurance coverage renewal with Argonaut Insurance Company in the amount of \$229,845 with the MIDD portion of \$206,281.29.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$5,471,243.45 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 11:56 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 taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on April 10, 2023 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: 4/24/23



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: File

From: Stephen Downing, Construction & Maintenance Manager
Vincent Astorino, Operations & Flow Manager

Date: May 15, 2023

Subject: Construction Projects Status Updates for May 2023 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. Continued spray-lining the 8-foot diameter interceptor (PCI-37) – 1300 Linear feet total
 - Approximately 950 linear feet is completed (5 to 7 o'clock)
 - Approximately 850 linear feet is completed (entire circumference of pipe)

- Approximately 68% completed
 - Weather & Maintenance Days significantly reduced work within the Interceptor this month.
 - The crew mobilized the equipment to MH-05 at Fontana Dr.
 - The traffic control at Hayes and 15 Mile Road has been removed, Hayes Road is re-opened.
4. CS-12 Pump Station and Control structure progress, which includes:
 - Performed initial startup and testing of the pumps
 - Installation of the guide rails for the stoplogs
 - Started demolition of the temporary flume
 5. The sediment removal and pipe carrier equipment arrived on site.

Construction Costs:

	Date	
Original Contract Amount	10/21/2020	\$28,807,500.00
Current Contract Amount	4/30/2023	\$32,052,534.88
Total Spent to Date	4/30/2023	\$15,974,748.56
Remaining Budget	4/30/2023	\$16,077,786.32



Figure 1 – CS-12 Initial Startup of New Pumps

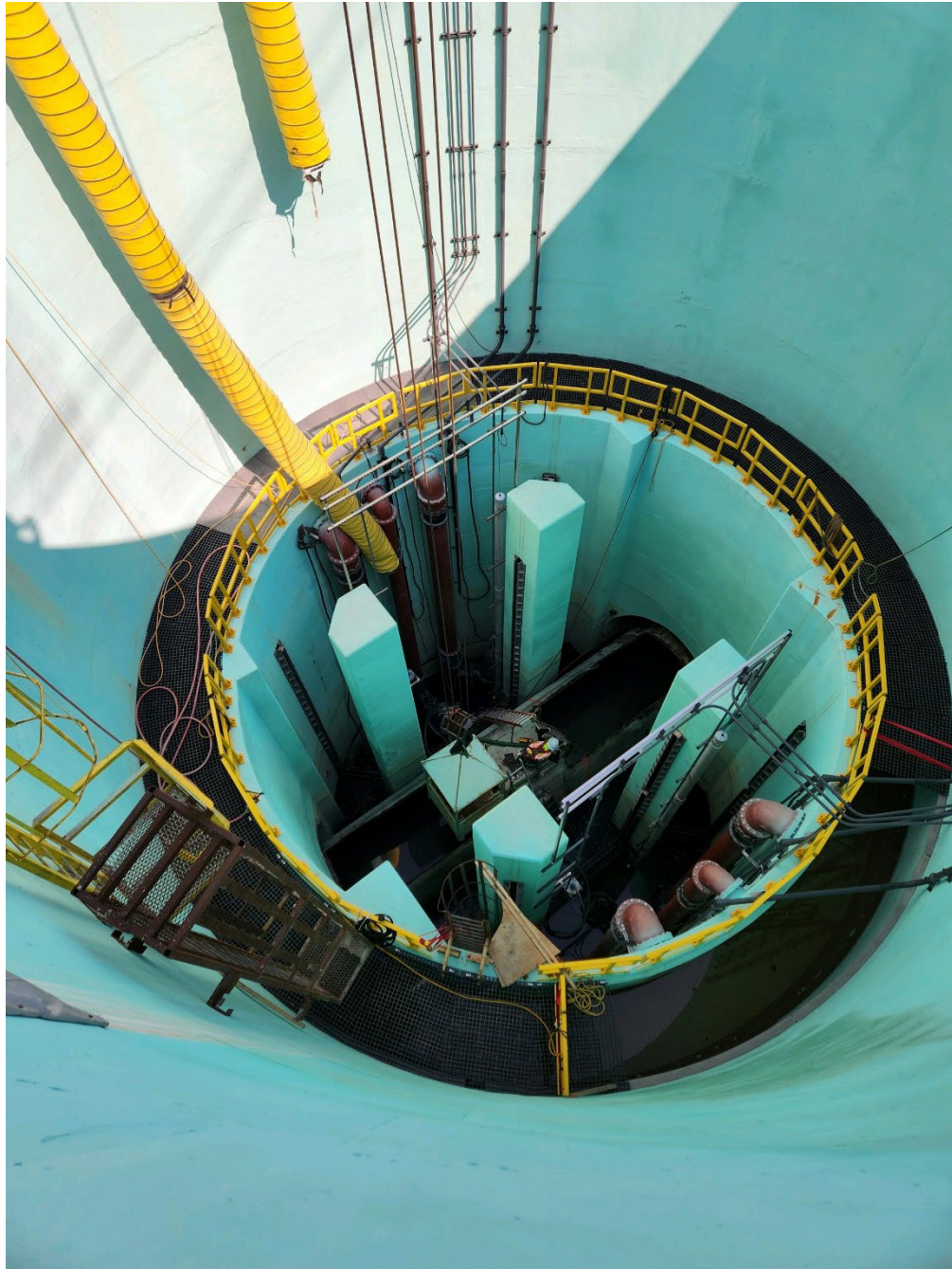


Figure 2 - CS-12 – Demolition of Temporary Flume



Figure 3 – Debris/Sediment Removal Equipment



Figure 4 – Debris/Sediment Removal Equipment

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 5 – Debris/Sediment Removal Equipment



Figure 6 – Debris/Sediment Removal Equipment



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 7 – Invert of 8-foot Pipe Post-Spray-Lining



Figure 8 – Spray-Lining Invert of 8-foot Pipe

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 started in September 2021 and is scheduled to be completed in June 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. Completed the grouting of the annular space around the 54-inch HOBAS.
3. Completed installation and startup of the CS-13 Gate
4. Completed flow control testing for the cleaning and HOBAS lining work between CS-2 and CS-3.
5. Continued preparing CS-2 for access to clean and slip-line between CS-2 and CS-3.
6. Excavated the bore pit for the FAD line beneath 15 Mile Road.
7. Wet-weather has impacted the available working days in the Interceptor this month.

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 Contract Amount	4/30/2023	\$13,674,209.70
Total Spent to Date	4/30/2023	\$7,920,179.50
Remaining Budget	4/30/2023	\$5,754,030.20



Figure 9 – FAD Bore Pit Excavation



Figure 10 – FAD Bore Pit Excavation



Figure 11 – FAD Bore Pit



Figure 12 – FAD Excavation at MH-01

Garfield Interceptor Lining Project

Contractor: SAK Construction, LLC

Engineering Consultant: AEW

Project Description: MCPWO identified 755 feet of 7-foot diameter pipe within the Garfield Interceptor that has been aggressively attacked with Hydrogen Sulfide damage. This stretch of pipe was immediately labeled as an immediate repair and MCPWO underwent an analysis of options for repairs. The selected option was a Spiral Wound PVC liner which has been installed around the world but is the first time being installed within Michigan. This product has a guaranteed useful life of 50-years and is being treated as a pilot project within the MID system.

Significant project tasks that have occurred over the past month:

- As of 3/18/23, Spiral Wound lining has been completed.
- As of 5/3/23, the annular grouting of the spiral wound is to be completed.
- May 8th, traffic control will be adjusted to close the Northbound right turn lane on Garfield to support Phase 2 lining operations.
- Sediment removal and then pipe jetting to begin on May 8th within the pipe coming from Macomb Township.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	8/25/2022	\$2,394,385.00
Change Order No. 1	3/14/23	\$510,160.00
Total Contract Amount	3/14/23	\$2,904,545.00
Total Spent to Date	3/27/23	\$361,975.50
Remaining Budget	3/27/23	\$2,542,569.50



Figure 13 – Annular Grouting Operation through Grout Ports



Figure 14 – Shelby Connection into Garfield Interceptor

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.

Significant project tasks that have occurred over the past month:

1. The Consultant is reviewing the data and preparing inspection reports. This is the final item to complete this project.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	1/19/2021	\$280,034.00
Total Spent to Date	9/30/2022	\$184,971.35
Remaining Budget	9/30/2022	\$95,062.65

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

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 has not worked since late July 2022.
2. The critical area grouting is complete, grouting operations will resume in non-critical areas when daily flow control operations allow.

Construction Costs:

	Date	
Original Contract Amount	6/24/2020	\$3,000,000.00
Change Order No. 1	3/14/2022	\$3,000,000.00
Current Contract Amount	3/31/2023	\$6,000,000.00
Total Spent to Date	3/31/2023	\$4,432,736.20
Remaining Budget	3/31/2023	\$1,567,263.80

Odor & Corrosion Control Facilities

Contractor: L. D'Agostini & Sons

Engineering Consultant: Tetra Tech

Project Description:

The Macomb Interceptor Drain completed a system-wide odor and corrosion study to evaluate the need for additional odor and corrosion control facilities to mitigate corrosion induced degradation of the interceptor and nuisance odors emitting from the interceptor near homes, businesses and public spaces. This effort is concentrated on extending the useful life of the interceptor and reducing nuisance odors emitting from the interceptor.

The study identified the need to construct three new odor and corrosion control facilities. Additionally, it was determined that the existing open-bed woodchip media type Fraser Bio-Filter would be more efficient and effective if converted to an enclosed bio-filter with an engineered media. The locations of the new facilities were determined through analysis and computer modeling using data that was collected in the field during the study phase. The facilities are intended to complement one another to reduce hydrogen sulfide induced corrosion.

The facilities are summarized in the Table below:

Facility	Location	Filter Type	Media Type
Fraser	15 Mile & Garfield	Bio-Filter	Engineered
Macomb Township	21 Mile & Garfield	Bio-Filter	Engineered
Clintondale Pump Station	Union Lake & Sorrentino	Carbon Filter	Carbon
NGI Pump Station	Gratiot & Concordia	Chemical Injection	Calcium Nitrate

The construction contract was awarded to L. D'Agostini & Sons in October of 2022 and the contractual Notice to Proceed was issued with an effective date of December 2, 2022. The number of days to achieve substantial completion is 630 days, resulting in a contractually required substantial completion date of August 23, 2024.

The construction work commenced in January of 2023 and is estimated to be completed by the summer of 2024. The estimated schedule for each site is summarized in the table below:

Facility	Location	Start Date	Finish Date
Fraser	15 Mile & Garfield	March – 2023	January – 2024
Macomb Township	21 Mile & Garfield	April – 2023	April – 2024
Clintondale Pump Station	Union Lake & Sorrentino	September – 2023	May – 2024
NGI Pump Station	Gratiot & Concordia	January – 2023	October – 2023

*The dates are based on the Construction schedule dated February 7, 2023

Significant project tasks that have occurred over the past month:

1. The Contractor is developing and submitting the required submittals to the Engineer & Owner for review.
2. The Contractor is working on obtaining the required permits from various agencies.
3. NGI PS Site:
 - a. Building masonry completed
 - b. Started installing roof joints
 - c. Installed chemical feed lines
4. Clintondale PS Site:
 - a. The equipment pad foundations were completed
5. 21 Mile & Garfield Site
 - a. Drilled and installed the 8-foot caisson for the FAD tap at the Interceptor
6. Fraser Site
 - a. Started & completed the demolition of the existing bio-filter

Construction Costs:

	Date	
Original Contract Amount	12/2/2022	\$11,799,678.78
Current Contract Amount	4/30/2023	\$11,799,678.78
Total Spent to Date	4/30/2023	\$796,267.84
Remaining Budget	4/30/2023	\$11,003,410.94



Figure 13 – NGI PS Odor & Corrosion Equipment Building



Figure 14 – NGI Building - Steel Truss Installation



Figure 15 – 21 & Garfield – Drilling for 8-foot Caisson at Interceptor

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 16 – Fraser – Bio-Filter Demolition



Figure 17 – Fraser Bio-Filter Demolition

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

MACOMB INTERCEPTOR DRAINAGE DISTRICT
04/18/2023 - 05/09/2023

<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 – 7.4212%							
	Clinton – 21.2122%							
	Fraser – 4.1667%							
	Harrison – 6.3461%							
	Lenox – 1.1179%							
	Macomb – 14.0617%							
	New Haven – 0.8255%							
	Shelby – 9.7911%							
	Sterling Heights – 30.6812%							
	Utica – 1.6170%							
	Washington – 2.7596%							
		Astorino		Anderson, Eckstein & Westrick	\$ 58,326.80	Invoice #143294 - 04.04.23	Garfield Interceptor Pilot Program	\$ 77,334.60
		Astorino		Anderson, Eckstein & Westrick	\$ 23,404.40	Invoice #143372 - 04.24.23	Garfield Interceptor Pilot Program - 03.13.23 - 04.09.23	\$ 54,206.20
		Astorino		Aquasight	\$ 89,624.00	Invoice #000763 - 04.09.23	Covid-19 Monitoring - Grant	\$ 282,159.00
		Astorino		CDW Government	\$ 1,454.16	Invoice #JD33988 - 04.20.23	Routers	
		Astorino		City of Mt. Clemens	\$ 14,906.80	Invoice #28005317 - 03.24.23	Monthly Utilities - February 2023	
		Astorino		Colville Electric Co., LLC	\$ 688.22	Invoice #23279 - 04.18.23	Server Replacement Project	
		Astorino		Department of Roads	\$ 1,055.98	Invoice #302375 - 02.17.23	Fleet Fuel - January 2023	
		Astorino		Department of Roads	\$ 1,576.95	Invoice #302421 - 04.12.23	Fleet Fuel - March 2023	
		Astorino		DTE Energy	\$ 1,416.53	Invoice #23-209 - 03.31.23	Monthly Electric - 03.02.23 - 03.30.23	
		Astorino		DTN, LLC	\$ 897.00	Invoice #6248793 - 01.20.23	Storm Sentry Weather Service	
		Astorino		Fishbeck	\$ 2,281.32	Invoice #422437 - 04.20.23	GLWA Engineering Assistance through 04.14.23	
		Downing		FK Engineering Associates	\$ 68,247.46	Invoice #20-058-034 - 04.06.23	Segment 6 CCA - 03.05.23 - 04.01.23	\$ 338,755.86
		Downing		FK Engineering Associates	\$ 100,054.48	Invoice #20-152-028 - 04.06.23	Segment 5 CCA - 03.05.23 - 04.01.23	\$ (202,100.42)
		Astorino		FK Engineering Associates	\$ 2,000.00	Invoice #20-042-008 - 04.10.23	Sewer Rehab Analysis - 8.15.21 - 04.08.23	
		Astorino		FK Engineering Associates	\$ 5,580.50	Invoice #22-126-005 - 04.11.23	Critical Areas Inspection Program	\$ 42,129.47
		Astorino		HESCO	\$ 10,300.00	Invoice #App 1 - 04.28.23	Meter Maintenance - 03.01.23 - 03.30.23	\$ 455,900.00
		Downing		L D'Agostini & Sons, Inc.	\$ 357,990.14	Invoice #WWS-2022-001 App 2 - 05.01.23	Odor & Corrosion Improvements	\$ 11,003,410.94
		Astorino		METCO Consulting Services	\$ 9,546.57	Invoice #2206A-03 - 04.02.23	Flow Control Assistance	\$ 78,442.92
		Astorino		METCO Consulting Services	\$ 3,433.04	Invoice #2206B-04 - 05.01.23	CPS Electrical Room AC Upgrades Project	\$ 67,467.83
		Astorino		METCO Consulting Services	\$ 7,542.05	Invoice #2206A-04 - 05.01.23	Flow Control Assistance	\$ 70,900.87
		Astorino		METCO Consulting Services	\$ 3,601.39	Invoice #2206B-03 - 04.02.23	CPS Electrical Room AC Upgrades Project	\$ 71,186.61
		Astorino		NTH Consultants, Ltd	\$ 1,658.25	Invoice #632435 - 04.07.23	2023 Interceptor Inspection Program - Design	\$ 60,159.00
	Downing		NTH Consultants, Ltd	\$ 2,505.14	Invoice #632428 - 04.07.23	Meter and Drop Shaft Rehab - Warranty Inspection	\$ 51,034.90	
	Downing		Oscar Renda Contracting	\$ 127,800.00	Invoice #WO19024 Est #32 - 05.08.23	Romeo Arm Segment 5 Lining through 04.30.23	\$ 15,974,748.66	
	Downing		Oscar Renda Contracting	\$ 133,488.00	Invoice #WO19024 Est #31 - 04.06.23	Romeo Arm Segment 5 Lining through 03.31.23	\$ 15,869,786.32	
	Astorino		People Driven Technology	\$ 1,365.79	Invoice #INV4719 - 04.18.23	SCADA Maintenance		
	Astorino		Rescue Training Services LLC	\$ 1,425.00	Invoice #04142023 - 04.14.23	16 Hour Confined Space Training		
	Downing		Ric-Man Construction	\$ 424,742.09	Invoice #WO21026 Est #20 - 05.01.23	Segment 6 Services 03.21.23 - 04.20.23	\$ 5,754,030.20	
	Downing		Tetra Tech, Inc.	\$ 31,242.00	Invoice #52054072 - 04.17.23	Odor & Corrosion CCA through 03.31.23	\$ 892,812.75	
	Astorino		ULINE	\$ 720.59	Invoice #161212178 - 03.15.23	Gloves		
	Astorino		Verizon	\$ 1,402.89	Invoice #9930861338 - 03.23.23	Monthly Cellular - 02.24.23 - 03.23.23 (Eq. Fund)		
	Astorino		Verizon	\$ 1,865.85	Invoice #9930861338 - 03.23.23	Monthly Cellular - 02.24.23 - 03.23.23		

MACOMB INTERCEPTOR DRAINAGE DISTRICT
04/18/2023 - 05/09/2023

<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>
BIOFILTER		Astorino	De-Cal, Inc.	\$ 576.20	Invoice #WO90023085-1 - 04.11.23	1st Quarter HVAC Preventive Maintenance	
CPS		Astorino	Clinton Township Treasurer	\$ 2,474.07	Invoice #23-206 - 04.04.23	Monthly Water - 02.28.23 - 03.28.23	
		Astorino	De-Cal, Inc.	\$ 2,091.20	Invoice #WO90023091-1 - 04.11.23	1st Quarter HVAC Preventive Maintenance	
		Astorino	DTE Energy	\$ 26,199.48	Invoice #23-222 - 04.05.23	Monthly Electric - 03.02.23 - 04.03.23	
		Astorino	GALCO	\$ 1,496.70	Invoice #4138442 - 03.24.23	Filter Fans	
		Astorino	Kennedy Industries	\$ 3,100.00	Invoice #636042 - 04.10.23	Pump Oil Change and Testing	
		Astorino	McNaghton-McKay Electric	\$ 578.72	Invoice #23173520-02 - 04.18.23	Supplies	
		Astorino	McNaghton-McKay Electric	\$ 5,143.89	Invoice #23173520-01 - 04.18.23	Supplies	
METERS		Astorino	Aquasight	\$ 99,586.00	Invoice #000761 - 04.09.23	Annual ACE Fee 05.01.23 - 04.30.24	
NGI		Astorino	Cummins Sales & Service	\$ 1,758.00	Invoice #S6-5999 - 04.20.23	Electrical Maintenance	
		Astorino	Fishbeck	\$ 5,124.00	Invoice #422466 - 04.20.23	Inspection Program through 04.14.23	\$ 45,636.63
		Astorino	Kennedy Industries	\$ 9,970.00	Invoice #636128 - 04.13.23	Repair FLYGT Pump	
		Astorino	National Industrial Maintenance	\$ 1,194.60	Invoice #43611 - 08.18.22	Jet Vac Cleaning	
		Astorino	National Industrial Maintenance	\$ 1,232.14	Invoice #44723 - 02.24.23	Jet Vac Cleaning	
OMID		Downing	Oakland County Treasurer	\$ 4,364,430.08	Invoice #CI017091 - 03.31.23	Sewer Disposal - April 2023	
Total				\$ 6,017,098.47			

Budget to Actual
MIDDD
As of Apr 30, 2023 = 83%

DESCRIPTION	2023 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	48,014,249		40,015,568	7,998,681	83.3%
OMID O&M	4,358,913		3,632,428	726,486	83.3%
Settlement	100,000			100,000	0.0%
Reimbursements	225,000		518,047	(293,047)	230.2%
PY Revenue-Fund Balance	16,738,220			16,738,220	0.0%
Reimb-Local Communities	17,159,080		14,299,233	2,859,847	83.3%
State Grant-ARPA Seg 5 & 6	-		16,928,642	-	100.0%
COVID Grant	-		1,094,122	-	100.0%
Interest	50,000		486,330	(436,330)	972.7%
Total Revenue Accounts	86,645,462	-	76,974,370	27,693,856	88.8%
EXPENSE ACCOUNTS					
GLWA-OMID	48,014,249		40,015,568	7,998,681	83.3%
OMID O&M	4,358,913		3,632,428	726,486	83.3%
Public Works Wastewater Disposal Division	1,889,760		749,032	1,140,728	39.6%
Office Operations/Insurance	343,100		62,543	280,557	18.2%
SCADA	461,990		152,007	309,983	32.9%
Engineering					
Replenish reserve from CPS refunding	618,680			618,680	0.0%
Drop shaft rehab Design	1,600,000		177,965	1,422,035	11.1%
METCO As Needed	75,000		62,217	12,783	83.0%
Data Review-Aquasight	58,000		18,000	40,000	31.0%
Annual Meter Dye Testing	50,000		35,650	14,350	71.3%
As Needed Engineering	250,000		59,156	190,844	23.7%
Odor and Corrosion Construction/CCA	3,280,000		934,898	2,345,102	28.5%
GLWA Assistance	30,000		5,843	24,157	19.5%
General Construction/Engineering Contingency-All Projects	450,000			450,000	0.0%
Garfield Interceptor Lining Pilot	-		335,916	(335,916)	100.0%
As Needed Applied Science	25,000		26,181	(1,181)	104.7%
As Needed Metco	60,000		26,140	33,860	43.6%
Level Sensors/Pressure/H2S-Meters	214,200			214,200	0.0%
Odor and Control-Construction	7,010,000		199,223	6,810,777	2.8%
Segment 6 Construction Administration	685,530		956,664	(271,134)	139.6%
Segment 6 Construction/CCA from reserve	-		4,168,258	(4,168,258)	100.0%
Wastewater Master Plan from reserve	-		59,000	(59,000)	100.0%
SY-S-1, SY-S-2, & WA-S-1 Meter Const Admin/Rehab	927,790		17,090	910,700	1.8%
Segment 5 Construction Admin	972,500		886,841	85,659	91.2%
COVID Grant	-		1,094,122	(1,094,122)	100.0%
Segment 5 Construction from reserve	611,240		2,869,178	(2,257,938)	469.4%
Legal Services	75,000		13,554	61,446	18.1%
Clintondale PS O&M	870,000		432,460	437,540	49.7%
NGI O&M	307,500		97,349	210,151	31.7%
Meters O&M	228,400		106,283	122,117	46.5%
Control Structures and Pump Station O&M	281,370		91,289	190,081	32.4%
Biofilter O&M	25,500		8,742	16,758	34.3%
Contribution Life Cycle Reserve	184,300			184,300	0.0%
Interceptor O&M	9,898,300		564,398	9,333,902	5.7%
Stormwater Pump Stations	131,000		109,167	21,833	83.3%
Sewage Disposal Charges - Mt. Clemens	200,000		147,845	52,155	73.9%
Debt Service - Revenue Bonds	2,458,140		2,048,450	409,690	83.3%
Total Expense Accounts	86,645,462	-	60,163,456	26,482,006	69.4%

	O&M Balance 6/30/2022	O&M	Total 4/30/2023
Cash - Operating	34,922,137	16,810,914	51,733,051
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		76,974,370	76,974,370
Expenditures		60,163,456	60,163,456
			0
Equity*	34,922,137		51,733,051

Detail of 2022 Equity*

Reserve at 6/30/2022	10,665,604
Construction/ Engineering Reserve	23,088,928
Life Cycle Reserve	1,167,605