EIGHT AND ONE-HALF MILE RELIEF DRAIN INTRA-COUNTY DRAINAGE BOARD OCTOBER 16, 2023 10:15 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 October 16, 2023	
3.	Approval of Minutes for September 11, 2023	3
4.	Public Participation	
5.	Project & Operational Updates – Vince Astorino	6
6.	Canal Rehabilitation Project – OCIP Insurance \$168,528.43 – Steve Downing	27
	Motion: To receive and file the memo regarding the binding of the Builder's Risk and Pollution Control insurance coverage for the Canal Rehabilitation project.	
7.	Consideration for approval of invoices (see attached)	37
8.	Financial Report – Bruce Manning	38
9.	Adjourn	

SYSTEM LEGEND (AS OF DATE OF PUBLICATION) SYSTEM BOUNDARY **DISTRICT LEGEND** (AS OF DATE OF PUBLICATION) 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM MARTIN SANITARY DIVERSION DISTRICT SOUTHEAST MACOMB SANITARY DISTRICT NORTHEAST SEWAGE DISPOSAL SYSTEM MILK RIVER INTERCOUNTY DRAIN DRAINAGE DISTRICT LOCAL MUNICIPALITY OTHER

ASSET LEGEND

PUMP STATION

Ø FLOW CONTROL STRUCTURE

RTB

GRAVITY INTERCEPTOR IN-SYSTEM STORAGE DEVICE

OVERFLOW POINT

LEVEL SENSOR

٥ RAIN GAUGE

М FLOW METER

PROJECT NO. 181053

intended to be 8.5"x11" when plotted, Scale(s)

indicated and graphic quality may

not be accurate for any other size

CHAPATON SYSTEM MAP

Macomb County, MI

Southeast Macomb Sanitary District

Wastewater Master Plan

USER: MESEDKI TIME: 1:33:59 PM DATE: 7/20/2021 LAYOUT: FIG 3-6 CHAPATON SYS PLOT INFO: Z:\2018\181053\CAD\PRECD\SEMSD OVERALL.DWG An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on September 11, 2023, at 10:03 A.M.

PRESENT: Candice S. Miller, Chair

Vince Viviano, Member

Sarah Lucido, Member

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Norb Franz, Communications Manager; Jennifer Jozwiak, Drain Account Specialist; Bruce Manning, Finance Manager; Pamela Sonnenberg, Administrative Assistant; Tom Stockel, Construction Supervisor; Michelle Nard, Board of Commissioners; Don VanSyckel, Board of Commissioners

PRESENT VIA TELECONFERENCE: Bonnie Rau, City of Sterling Heights DPW

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

Adopted: YEAS: 3

NAYS: 0

Minutes of the meeting of August 14, 2023, were presented. A motion was made by Ms. Lucido, supported by Mr. Viviano 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. Astorino said that there were two days of very intense wet weather events in the past month. The total for both was 3.54 inches for the Chapaton district. The first event we had an issue with storm pump #1. We couldn't get it to start. We knew we had issues prior to the event and had parts on order. We were able to identify different issues with it and get it running. We also had to use the emergency bypass that day due to the heavy rain. The second rain event was even more intense, we had all 3 storm pumps running at full speed and still had to discharge. Water quality numbers were good for the total at 16 cts/100 ml geometric mean. Ms. Miller stated that for the same weather event, Oakland County released 2.2 million gallons of raw sewage into the Red Run drain without any notification to us. There were wipes, gloves, and other debris running through the Red Run drain through back yards from that discharge.

Mr. Astorino said the In-System Storage project is moving along nicely. In the past month they have framed the bypass pipe and the control building is being put together. The third iteration of the bladder is being shipped and has passed all of the QA/QC tests.

Mr. Astorino stated that the Canal Rehabilitation is making very good progress. We dug a temporary utility trench that will have the water quality sample line and electrical. He showed some before and after photos of the work being performed.

Mr. Astorino updated on the 2023 Interceptor Inspection program. We are still waiting on the data from the contractor on that.

Mr. Astorino said that there is not much to report on the Chapaton Electrical upgrades. They are still putting together the submittals.

A motion was made by Ms. Lucido, supported by Mr. Viviano to receive and file the project updates.

Adopted: YEAS: 3

NAYS: 0

Mr. Astorino presented on the Pump Station Ventilation Improvement project. When the 3 large pumps at the Chapaton Pump Station run, the temperatures are extremely high. Back in 1968 when the building was originally constructed, there were louvres along the wall that would open next to the motors for ventilation. In 2010, there was an energy improvement project and for some reason the louvres were sealed up so now there is less ventilation. We need to keep the temperatures lower in that room as it is also damaging to the windings within the motors.

A motion was made by Ms. Lucido, supported by Mr. Viviano to approve the design and construction contract administration proposal from OHM for the Chapaton Pump Floor Ventilation project at a not-to-exceed amount of \$55,280.

Adopted: YEAS: 3

NAYS: 0

Mr. Astorino presented on the Digital Twin Pilot project which is a software platform that will mirror our SCADA system. This project will establish a standalone software tool that will replicate the 8.5 Mile system operations. It can be used to input historical rain events and create training scenarios. With the turnover in staff, the historical knowledge has been lost on how to run the facility during extreme weather events. The software also runs parallel to the SCADA system during wet weather events. It can then provide suggestions to operators during these events. It can be fully automated but we are not using it in that way. It is a tool that will help operators safely maximize the system during wet weather events.

A motion was made by Ms. Lucido, supported by Mr. Viviano to approve the proposal from Jacobs for an amount not to exceed \$268,000 to complete the Eight and One-Half Mile Digital Twin software pilot project.

Adopted: YEAS: 3

NAYS: 0

Mr. Astorino presented on a request for a new used backhoe. The machine is multifunctional. It is used to unload heavy loads, digging holes, and picking up logs around the facility. The 2023/2024 budget has \$80,000 allocated in it to replace this piece of equipment.

A motion was made by Ms. Lucido, supported by Mr. Viviano to approve the purchase of a 2015 Backhoe/Loader with trade-in of the 1976 backhoe from Rosseel's Farm and Garden Supply for a net cost of \$80,000.

Adopted: YEAS: 3

NAYS: 0

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The Chair presented the invoices totaling \$1,747,935.34 to the board for review and approval.

A motion was made by Ms. Lucido, supported by Mr. Viviano 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 Ms. Lucido and supported by Mr. Viviano.

Adopted: YEAS: 3

NAYS: 0

There being no further business, it was moved by Ms. Lucido, supported by Mr. Viviano, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted: YEAS: 3

NAYS: 0

The meeting was adjourned at 10:43 A.M.

Candice S. Miller, Chair

Macomb County Public Works Commissioner

ardico S. Miller

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 September 11, 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

ndico S. Miller

DATED: 09/11/23



Candice S. Miller

Public Works Commissioner Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations Director

Date: October 16, 2023

Subject: Construction Projects Status Updates for the October 2023 Board Meeting

The following provides a status update for construction work completed within the 8 ½ Mile Relief Drain Drainage District (8MRDDD) for the previous month.

Wet Weather Operations

No wet weather events for the past month.

Chapaton In-System Storage Project

Contractor: Weiss Construction

Engineering Consultant: Tetra Tech

Project Description:

The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel.

Significant project tasks that have occurred over the past month:

- 1. Submittals are being received and processed by the engineering team.
- 2. Construction Activities per Update Period:
 - Continued staging construction materials delivered & stored along Beaconsfield greenbelt.
 - Maintained secured work site with swing gates and privacy fence screening at construction sites.
 - Continued Beaconsfield site vibration and sensor monitoring and documentation during construction as required.
 - Continued dewatering and maintaining adequate working conditions within the interior of the Beaconsfield shaft as necessary.

- Removed concrete forms from East tunnel and bypass walls as required at the Beaconsfield site.
- Layout and place concrete forms and installed reinforcing steel, dowels, and water stop for 11ft tunnel emergency bypass ceiling within the Beaconsfield shaft as designed.
- Poured in place high strength concrete emergency bypass ceiling adjacent to 11ft tunnel connecting East and West sections of 11ft tunnel within the Beaconsfield construction shaft as required.
- Placed approved backfill sand while performing compaction and density testing within specified incremental backfill heights as required inside the Beaconsfield shaft.
- Placed 300+ cubic yards of low strength concrete backfill material inside the Beaconsfield shaft as designed.
- Began strategically removing steel I-beam bracing from the Beaconsfield shaft as designed per engineers' approval.
- Finished installing CMU block walls, brick veneer and glass block windows for the Control Building at Beaconsfield as designed.

3. Construction Look Ahead:

- Continue deliveries of construction materials along Beaconsfield greenbelt.
- Continue Beaconsfield site vibration monitoring & documentation.
- Set in place upper portion of concrete wall forms to continue the east and west boxed out wall height above elevation 577ft at the Beaconsfield construction shaft.
- Install required reinforcing steel, dowels, and water stop to continue the east and west boxed out wall heights at Beaconsfield work site.
- Pour in place high strength concrete for the upper portion of the east and west boxed out walls as designed in the Beaconsfield shaft work site.
- Pour in place high strength concrete ceilings for the upper east and west walls as designed in the Beaconsfield shaft work site.
- Complete installation of required lamp-post vents and necessary components for carbon odor control unit at the Kelly Road worksite.
- Continue to excavate and place access drive subgrade at the Gaukler worksite.
- Finish installing odor pipe fittings, vents at the Gaulker Road work site as designed.
- Install trusses, sheeting and roofing for the proposed inflatable dam Control Building at Beaconsfield as required.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$9,673,200.00
Change Order #1	9/15/22	\$269,666.49
Revised Contract Amount		\$9,942,866.49
Total Spent to Date	Pay Apps. #1 - 18	\$5,757,972.89
Remaining Budget		\$4,184,893.60

7

Figure 1 – Placed Concrete Bypass @ Beaconsfield Shaft



Figure 2 - Compacting Sand Backfill @ Beaconsfield Shaft

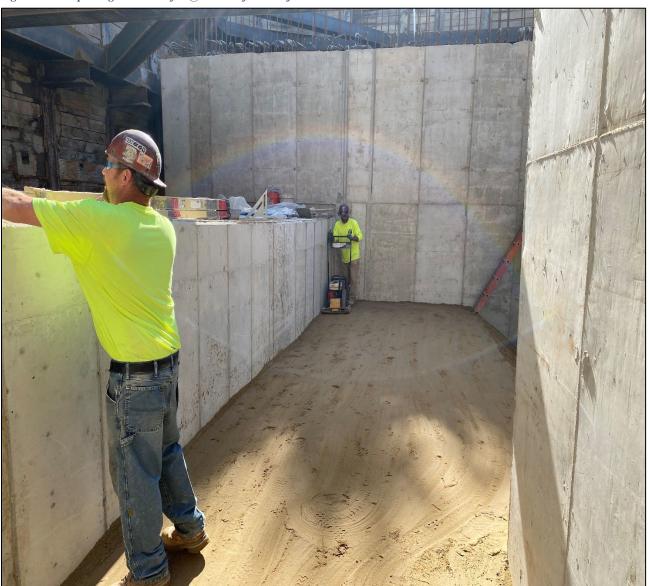


Figure 3 – Density Testing Sand Backfill @ Beaconsfield Shaft

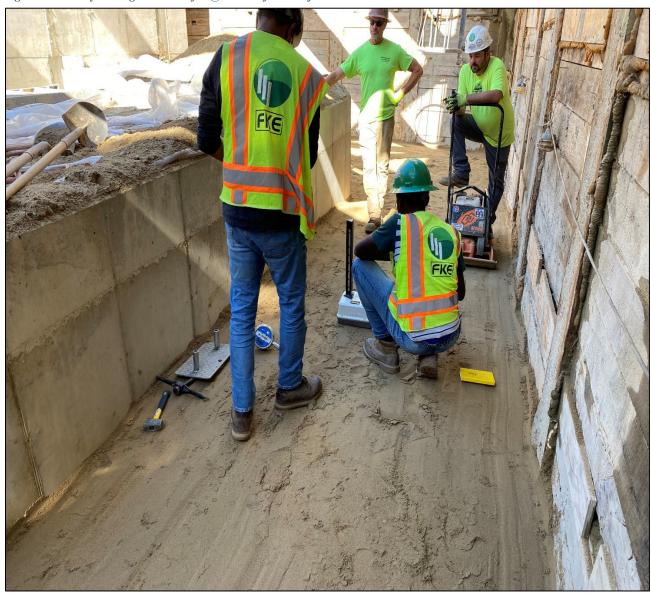


Figure 4 – Backfilling & Compaction @ Beaconsfield Shaft

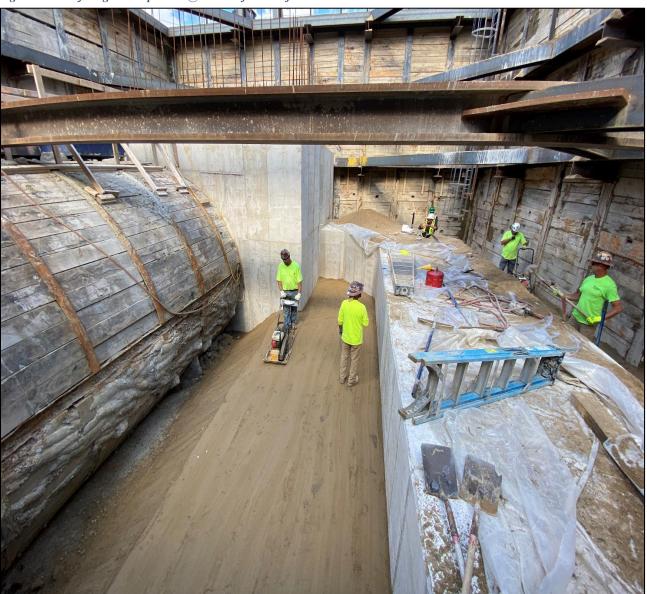


Figure 5 – Concrete Backfill @ North Side of Beaconsfield Tunnel



Figure 6 - Placing Sand Backfill @ Beaconsfield Shaft



Figure 7 – Installing Brick Vernier @ Beaconsfield Control Bldg.

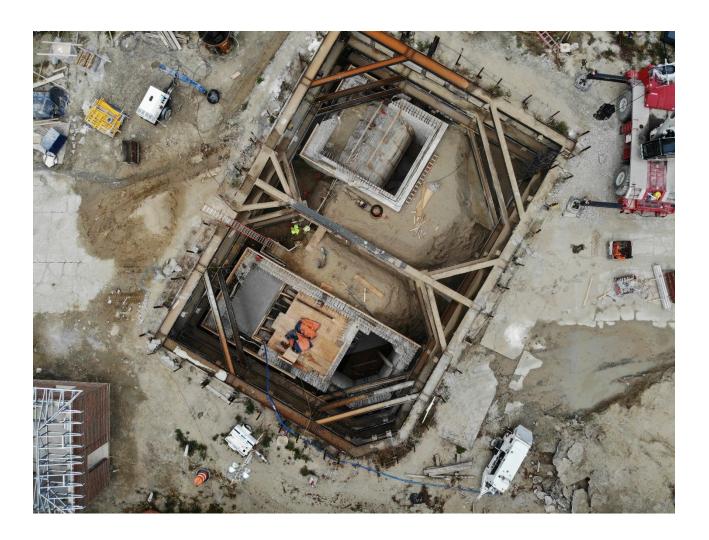


Figure 8 – Interior @ Beaconsfield Control Bldg.



Figure 9 – Installing Glass Block Windows @ Beaconsfield Control Bldg.





Chapaton RTB Canal Rehabilitation Project

Contractor: Z Contractors

Engineering Consultant: Wade Trim

Project Description:

The primary focus of the project is to rehabilitate the Chapaton Treatment Canal which was last rehabilitated in the early 2000s, replace the Chapaton Canal Control Structure gates and associated building and electrical components, and raise the top of the Chapaton Treatment Canal above the 500-year flood elevation. This will provide flood resiliency for the surrounding area and will improve the water quality of Lake St. Clair by capturing more CSO and discharging fewer times per year. Additional project components include a direct process pipe to the lake to reduce treatment costs by using less water, proper abandonment of a portion of the 100-year-old 9-Mile Drain, and an 11-acre sewer separation along 9-Mile Road.

Significant project tasks that have occurred over the past month:

- 1. Construction Activities per Update Period:
 - Completed all sheeting, grading, base slab concrete, stone base, and geogrid reinforcement along the canal bottom for the westerly 150' of 700' total canal length.
 - Completed all south-side sheeting from the existing sheeting to the existing outfall structure.
 - Performed cutover to temporary utilities servicing the existing outfall building during construction.
 - Installed approximately 600' of new 24" flushing line toward the proposed outfall structure (final connection to be completed in conjunction with outfall structure).
 - Formed and poured reinforced concrete divider walls for new screening structure adjacent to East Building.

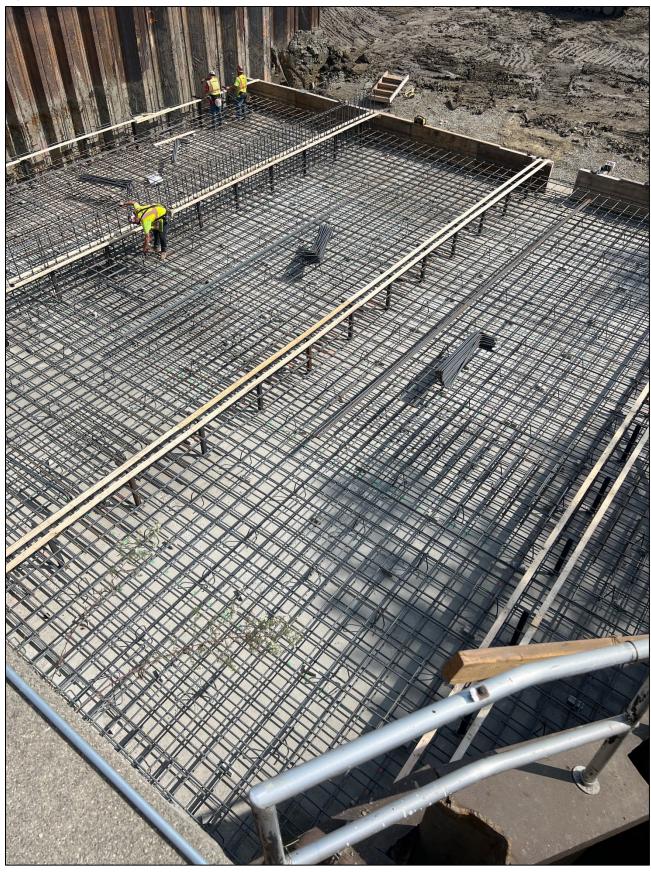
2. Construction Look Ahead:

- Strip forms on two divider walls form, place rebar, and pour remaining walls.
- Begin forming top slab of screening structure.
- Remove earth around existing outfall structure (supported by temporary sheeting)
- Install remaining sheet piling for outfall structure foundation.
- Excavate approx. 9' of earth between foundation sheet piling and begin constructing deep concrete foundation for new outfall structure.
- Begin cofferdam and excavation for new 8'x8' gravity emergency bypass conduit around existing and future control buildings.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$27,374,710.00
Total Spent to Date	Pay App. #2	\$4,100,970.73
Remaining Budget		\$23,273,739.27

Figure 11 – Rebar within the base slab on the West end.



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 12 – Access Road Pour adjacent to new stone & geogrid reinforcement



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Figure 13 – New Outfall Structure Sheet Piling in foreground; new south-side sheeting in background



Figure 13 – Forms and re-steel for divider walls (on new base slab)

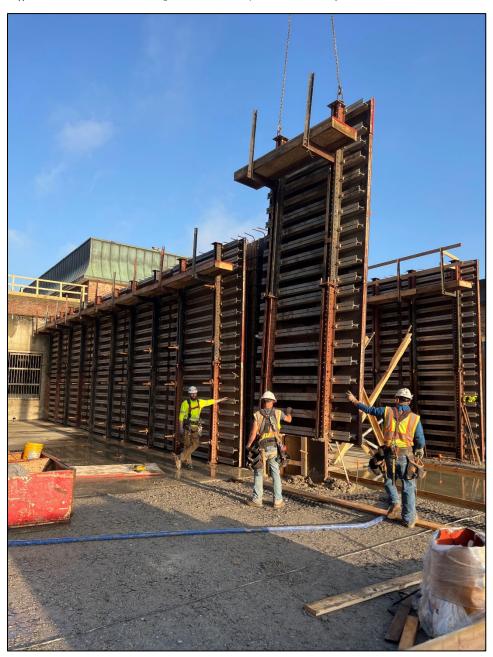


Figure 14 – Divider wall pour

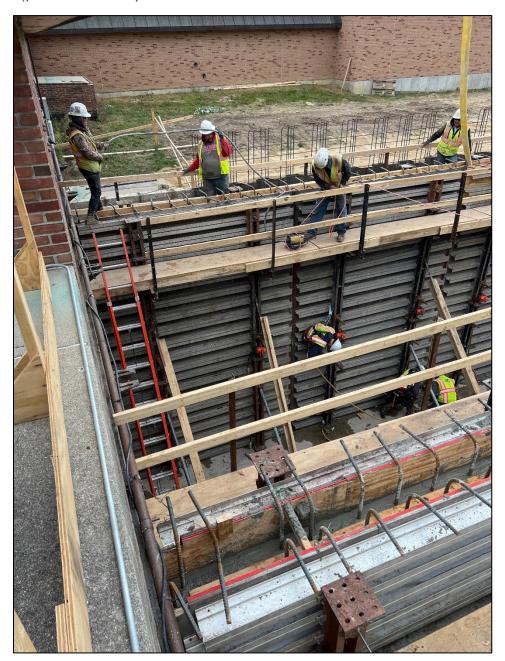


Figure 15 – Drone Aerial at 100 FT Facing East (Baseline)

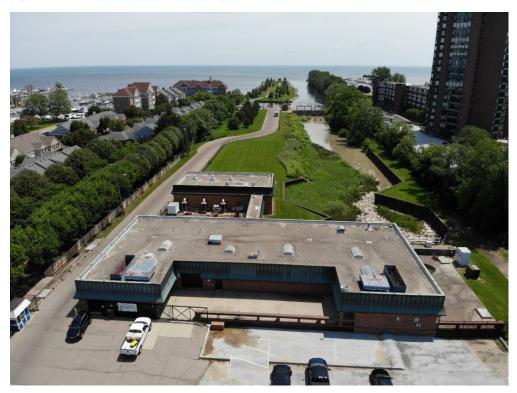
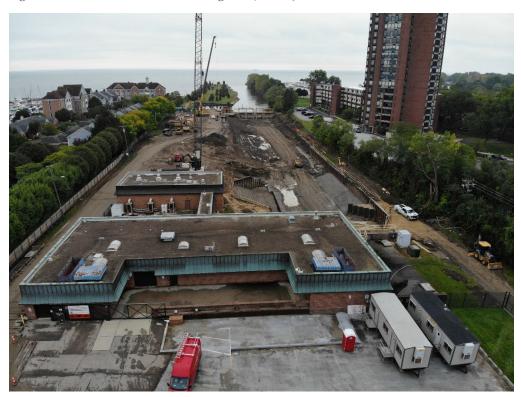


Figure 16 – Drone Aerial at 100 FT Facing East (9/29/23)



2023 Interceptor Inspection Program

Contractor: Taplin

Engineering Consultant: NTH

Project Description:

The 2023 sewer inspection program was awarded to Taplin in March 2023. The inspection program includes inspection of approximately 24 miles of sanitary sewer ranging from 2-feet to 12-feet in diameter and 152 manholes across the MIDDD and 8.5 Mile Districts.

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 8.5 Mile, due to being a combined sewer and mostly stormwater, is on a 10-year schedule. This may be adjusted pending the results of the current inspection.

Significant project tasks that have occurred over the past month:

- 1. Inspection is 95% complete and ahead of schedule. The only remaining segment is from Malvern to the Chapaton Pump Station.
- 2. Sample videos have been sent to NTH and MCPWO for review. Official inspection data has not been sent yet.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	4/10/23	\$403,919.38
Total Spent to Date	Pay App #1	\$282,170.30
Remaining Budget		\$121,749.08

^{*}This Table reflects the 8.5 Mile costs only.

Chapaton Electrical Upgrades

Contractor: Rotor Electric

Engineering Consultant: Tetra Tech

Project Description:

The project consists of installing three 2 MW generators and all associated synchronous gear, new motor starters for each of the three stormwater pumps, new 15 kV switchgear, and a complete motor rebuild for storm pump 2. This project will increase the electrical resiliency of the Chapaton Pump Station.

Significant project tasks that have occurred over the past month:

- 1. Submittals are being received and processed by the engineering team.
- 2. Construction Activities per Update Period:
 - No construction activities at this time. On-site work is currently not planned until 2025.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$14,650,000.00
Total Spent to Date	Pay Apps. #	\$0.00
Remaining Budget		\$14,650,000.00





Public Works Commissioner Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

From: Stephen Downing, Construction & Maintenance Manager

Date: October 16, 2023

Subject: Canal Rehab Builder's Risk, Pollution & OPPI Policy Premiums

The 8 ½ Mile Relief Drain Drainage District awarded the Canal Rehab Project to Z-Contractors during the June 12, 2023 Board Meeting. Since that time we have worked with Wade Trim and Z-Contractors to prepare, review and execute contracts. In addition Meadowbrook Insurance solicited proposals from insurance carriers to develop cost for Owner provided Builder's Risk, Pollution, and OPPI insurance policies.

Z-Contractors commenced with field work in August of 2023 which required the binding of the Builder's Risk and Pollution policies at a minimum. The premiums for each policy are shown in the table below. A complete breakdown of each policy and premium can be found in the attached MIA Proposal.

Insurance Policy	Insurance Premium
Builder's Risk	\$119,639
Contractor's Pollution Liability	\$48,889.43
Owner's Protective Professional Indemnity (OPPI)	\$94,812.50
Total Premiums	\$263,527.48

The MCPWO team evaluated the need for the OPPI policy on this project, ultimately determined that it was not required as Wade Trim is provided \$10 Million in Professional Liability policy.

The action is that the 8 ½ Mile Relief Drain Drainage District Board receive and file this memo regarding the binding of the Builder's Risk, and Pollution policies for the premium amounts indicated in the table above for a total of \$168,528.43.

Meadowbrook Insurance Agency Memo Attachments:

Eight & One-Half Mile Relief Drain Drainage District

Owner Controlled Insurance Program Proposal for:

Chapaton RTB Canal Rehabilitation

8/21/2023 to 8/21/2025

(dated 8/21/2023)

Eight & One-Half Mile Relief Drain Drainage District

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Meadowbrook Insurance Agency

MISSION STATEMENT

Global, Innovative, Architect of Risk Management Solutions for our Clients

MANTRA

Urgency......Solutions



MEADOWBROOK SERVICES

- Insurance Management and Brokerage Operations -

Meadowbrook insurance operations are made up of seven major areas:

- ➤ Program management Account Servicing
- ➤ Insurance Agency Operations
- > Reinsurance Intermediaries
- > Captive Management
- Management of Insurance Companies
- > Claims Management
- Loss Control

- Service Products -

Meadowbrook Agency offers an extensive array of services. Our service product capabilities include the following:

Property/Casualty	Captive Formation & Management
Employee Benefits Counseling	Reinsurance Brokerage
Claims Management	Off Shore Captives
Sales & Marketing	Feasibility Studies
➤ Loss Control	Pool Management
Education & Training	Litigation Management
Risk Management	➤ Rent A Captives
Retail Brokerage	



MEADOWBROOK PROFILE

Meadowbrook was founded in 1955. Since that time, Meadowbrook:

- ➤ has grown to become Michigan's largest property casualty agency and ranked 20th nationally
- > employs more than 801 associates nationwide in 19 offices nationwide
- > is heralded as an innovative pioneer of alternative risk management techniques
- > offers both traditional and alternative solutions to client's needs
- core business consists of commercial property, casualty, life, accident and health insurance
- > clients range from small to large businesses
- > is committed to finding the most cost-effective methods of handling client risks and management needs
- > brings a wide range of experience and expertise to their work
- is able to create <u>customized</u> solutions for clients by combining traditional insurance products with progressive risk management alternatives
- > Estate Planning

Meadowbrook is committed to servicing our client's needs.



Meadowbrook is proud to be affiliated with the following charitable organizations.

































































Eight & One-Half Mile Relief Drain Drainage District

Meadowbrook Agency Service Team

GENERAL INFORMATION

toll free - 800 / 482-2726 switchboard/after hours: 248 / 358-1100 website: www.meadowbrook.com

PRODUCER

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cell -248 / 943-1317
e-mail: ssaputo@meadowbrook.com

MARKETING

Patrick Kennedy Account Executive tel - 248 / 204-6161

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PRIMARY CONTACT

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BACK UP CONTACT

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PERSONAL LINES

Kelly Arnold Account Manager Agency Operations tel – 989 / 921-5307

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CLAIMS REPORTING

All claims - except Workers Compensation*

It is our ongoing mission to provide effective, efficient solutions for your claims servicing needs. In keeping with the goal of offering world-class claims service and enhancing your experience, we've established two new, centralized claims reporting contacts.

Telephone:

(888) 965-3527

Email:

<u>Agencyclaims@meadowbrook.com</u> Workers Compensation claims will continue to be reported directly to your insurance company.



Eight & One-Half Mile Relief Drain Drainage District

8/21/2023 to 8/21/2025

Named Insureds

Eight & One-Half Mile Relief Drain Drainage District

Scheduled Project

Project Name	Construction Value
	(Hard Costs)
Chapaton RTB Canal	\$27,374,710
Rehabilitation Project	



Eight & One-Half Mile Relief Drain Drainage District Premium Summary

8/21/2023 to 8/21/2025

Projects Covered: Chapaton RTB Canal Rehabilitation Project

	PROPOSED PREMIUM	OPTION #1 (no excess
INSURANCE POLICIES		flood)
Builder's Risk	\$104,544.00	\$119,639
ACE American Ins. Co.	\$27.3M Hard Costs	\$27.3M Hard Costs
THE THIRD THE CO.	\$4.05M Soft Costs	\$4.05M Soft Costs
	\$1,000,000 Flood Limit	\$1,000,000 Flood Limit
	\$500,000 Flood	\$250,000 Flood
	Deductible	Deductible
	Deadeline	Doutellie
Difference in Conditions -	\$94,095.00	N/A
Excess Flood	\$1M X \$1M	
Aspen Specialty Insurance	,	
Co.		
General Liability	Included in April 2022	Included in April 2022
Navigators Specialty	Program	Program
	\$50M Total Limit	\$50M Total Limit
Excess Liability		
Various Carriers		\$48,889.43
Contractors Pollution Liability	49,075.98	49,075.98
AIG Specialty Ins. Co.	\$10M Limit	\$10M Limit
Oran and Breat ative Burfactions	\$04.812.50	¢04.912.50
Owners Protective Professional	\$94,812.50 \$5M Limit	\$94,812.50 \$5M Limit
Indemnity (OPPI)	\$1M Defense Outside	\$1M Defense Outside
Berkley Assurance Company	511vi Delense Outside	511vi Delense Outside
Total Premium:	\$342,527.48	\$263,527.48

Premium Payment Plan

Builder's Risk, Difference in Conditions – Excess	☒ Pay in Full
Flood, Contractors Pollution Liability, Owners	⊠ Agency Bill
Protective Professional Indemnity	



EIGHT AND ONE-HALF MILE RELIEF 09/18/2023 - 10/10/2023

Funding Source	Apportionment	Manager	<u>Vendor</u>	Amount	Invoice Detail	Project Summary	Pı	oject Balance
8 1/2 Mile Relief	Chapter 20							
	State of MI – 16.04%							
	County of Macomb – 2.25%							
	Dept. of Roads – 2.25% Eastpointe – 54.33%							
	St. Clair Shores – 25.13%							
		Astorino	Anderson, Eckstein & Westrick	\$ 7,008.04	Invoice #0145828 - 09.06.23	Chapaton Gate Basin Rehabilitation	\$	20,148.11
		Astorino	City of St. Clair Shores	\$ 1,735.14	Invoice #23-627 - 09.15.23	Monthly Utilities - 06.14.23 - 09.15.23		
		Tanghe	Department of Roads	\$ 605.08	Invoice #302520 - 08.18.23	Monthly Fuel July 2023		
		Astorino	DTE Energy	\$ 592.30	Invoice #23-519 - 08.31.23	Monthly Electric - 08.01.23 - 08.31.23		
		Astorino	DTE Energy	\$ 12,034.20	Invoice #23-541 - 09.13.23	Monthly Electric - 08.09.23 - 09.10.23		
		Astorino	Fire Equipment	\$ 630.00	Invoice #127966 - 09.01.23	Annual Inspection - Alarm System		
		Astorino	Fishbeck	\$ 1,497.50	Invoice #428382 - 10.04.23	As Needed Engineering through 09.29.23 - 9 Mile Sewer		
		Baker	Kienbaum Hardy Viviano Pelton	\$ 880.00	Invoice #50133 - 09.01.23	General Matters August 2023 - Canal Project		
		Downing	Marino's Landscape	\$ 649.00	Invoice #23675 - 08.31.23	Lawn Care August 2023		
		Downing	Meadowbrook	\$ 5,230.12	Invoice #12813 - 09.11.23	Canal OCIP Builders Risk (08.30.23 - 09.30.23)		
		Downing	Meadowbrook	\$ 114,408.88	Invoice #12813 - 09.11.23	Canal OCIP Builders Risk (10.01.23 - 08.30.25)		
		Downing	Meadowbrook	\$ 2,137.24	Invoice #12811 - 09.11.23	Canal OCIP Pollution Liab (08.30.23 - 09.30.23)		
		Downing	Meadowbrook	\$ 46,752.19	Invoice #12811 - 09.11.23	Canal OCIP Pollution Liab (10.01.23 - 08.30.25)		
		Astorino	Mobile Motion Controls	\$ 1,450.00	Invoice #FS086 - 09.25.23	Gate Repair		
		Astorino	NTH Consultants	\$ 3,181.50	Invoice #633741 - 09.01.23	9-Mile Emergency Bypass Rehabilitation	\$	95,122.03
		Astorino	Rescue Training Services	\$ 1,425.00	Invoice #09012023 - 09.01.23	Confined Space Rescue Training		
		Astorino	Rosseel's Farm & Garden	\$ 80,000.00	Invoice #271061 - 09.12.23	Backhoe		
		Tanghe	Russ Milne	\$ 1,566.72	Invoice #C98964 - 09.20.23	Vehicle #17-423 - Diagnostic / Repairs		
		Tanghe	Russ Milne	\$ 947.52	Invoice #C99380 - 09.28.23	Vehicle #17-423 Maintenance		
		Astorino	Spencer Oil Company	\$ 569.85	Invoice #703654 - 09.27.23	Fuel		
		Astorino	Taplin Group	\$ 282,170.30	Invoice #WWS-2022-005 - 09.20.23	2023 Interceptor Inspection through 07.15.23	\$	713,068.48
		Astorino	Tetra Tech	\$ 4,660.00	Invoice #52124559 - 09.11.23	Chapaton Electrical CCA through 08.25.23	\$	705,193.37
		Astorino	Tetra Tech	\$ 29,744.31	Invoice #52124550 - 09.11.23	In-System Storage through 08.25.23	\$	359,110.40
		Astorino	Wade Trim	\$ 133,653.42	Invoice #2028794 - 09.28.23	Chapaton RTB Canal Upgrades through 09.22.23	\$	1,804,841.25
		Astorino	Wade Trim	\$ 27,926.80	Invoice #2028793 - 09.28.23	Chapaton RTB Flushing Improvements	\$	199,183.79
		Astorino	Z Contractors	\$ 2,919,188.13	Invoice # WWS-2022-003 - 0925.23	Chapaton RTB Canal Rehabilitation	\$	23,273,739.27

Total \$ 3,680,643.24

	2023			REMAINING	
DESCRIPTION	FINAL BUDGET	ENCUMBERED	ACTUAL	BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	20,000		216,556	(196,556)	1082.8%
Other Revenue	5,000		158,836	(153,836)	3176.7%
State Grant-Electrical and Canal Rehab	-		722,098	-	100.0%
County ARPA Funds	-		5,765,546	-	100.0%
8.5 O&M/Charge Required Revenue	5,003,220		5,003,220	-	100.0%
PY Revenue-Fund Balance	4,412,010		, ,	4,412,010	0.0%
Use of Reserve from prior contributions	3,738,110			3,738,110	0.0%
Use of Reserve(Flow Meters)	350,000			350,000	0.0%
Use of SCADA Reserve	64,750			64,750	0.0%
Use of Surplus from past collections	1,051,830		-	1,051,830	0.0%
Total Revenue Accounts	14,644,920	-	11,866,256	9,266,308	81.0%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000		6,000	_	100.0%
Dues, Training, Conf, Subs.	17,010		1,638	15,372	9.6%
Engineering			,		
Sluice & Dewatering Gates Rehab/Replacement Project	1,974,340		32,321	1,942,019	1.6%
Canal Rehab Design	320,000		281,420	38,580	87.9%
8.5 Mile Inspection Project	500,000		42,649	457,351	8.5%
9 Mile Drain & Dewater Accusonic Flow Meters	350,000		247,208	102,792	70.6%
9 Mile Emergency Bypass Structural Rehab	3,000,000		18,784	2,981,216	0.6%
Flushing	1,895,660		1,784	1,893,876	0.1%
Chapaton Electrical Upgrades (ARPA Funds)	-		125,187	(125,187)	100.0%
Canal Rehab (ARPA Funds)	-		158,288	(158,288)	100.0%
As needed Engineering	39,110		34,426	4,684	88.0%
Sluice and Dewatering Gates Rehab/Replace Project (Was 9 Mile PS)	2,025,660		75,622	1,950,038	3.7%
Cost Share Army Corp Grant-Green Infrastructure Project	162,500		-,-	162,500	0.0%
9 Mile Bypass Pipe Structural Repairs-Construction/CA	308,010		1,491	306,519	0.5%
Chapaton Improvements-Office Space Downstairs	100,000		1,231	98,769	1.2%
In-System Storage-Construction Admin and Construction (County ARPA)	1,659,410		2,889,885	(1,230,475)	174.2%
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New Equipment	3,000			3,000	0.0%
Office Supplies	500			500	0.0%
Operating Supplies	81,800		84,147	(2,347)	102.9%
Other Professional Srvcs	42,500		35,869	6,631	84.4%
Personnel Services	1,135,790		614,093	521,697	54.1%
Repair & Maintenance	246,000		122,258	123,742	49.7%
Contribution to Reserve	288,240			288,240	0.0%
Scada System	199,390		43,146	156,244	21.6%
Utilities	290,000		269,453	20,547	92.9%
Total Expense Accounts	14,644,920	-	5,086,900	9,558,020	34.7%

	O&M Balance 9/30/2022	O&M	Total 9/30/2023
Cash - Operating	9,802,509	6,779,356	16,581,865
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		11,866,256	11,866,256
Expenditures		5,086,900	5,086,900
			0
Equity*	9,802,509		16,581,865

Detail of 2022 Equity*

9 Mile Bypass Struct Rprs-Const/CA	292,264	Capital Reserve	953,047
As-Needed Engineering	48,544	Contribution from Macomb Cty	2,000,000
Chapaton Improvements-Lab/Office Space	173,347	In System Contrib from SEMSD	1,351,239
Chlorine storage tank #3 relining	7,500	LSCWWI 04B Transfer	738,112
Cost Share Army corp Grant-Green Infrastructure Project	162,500	SCADA Reserve	155,140
Fiber Optic Improvements	16,130	SRF Replacement Reserve	2,592,140
Firewall Hardware Design/Config	12,900	Painting	25,000
In-System Storage Design/Const Admin/Const	116,276	SolarWind -Network Mgmt Softwar	9,670
Obsolete Wireless backhaul replacement links	16,120	Storm PLC Replacments	30,000
Sluice & Dewatering Gates Rehab/Replace Proj(Was 9 Mile PS)	1,102,581		

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