

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
NOVEMBER 13, 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**

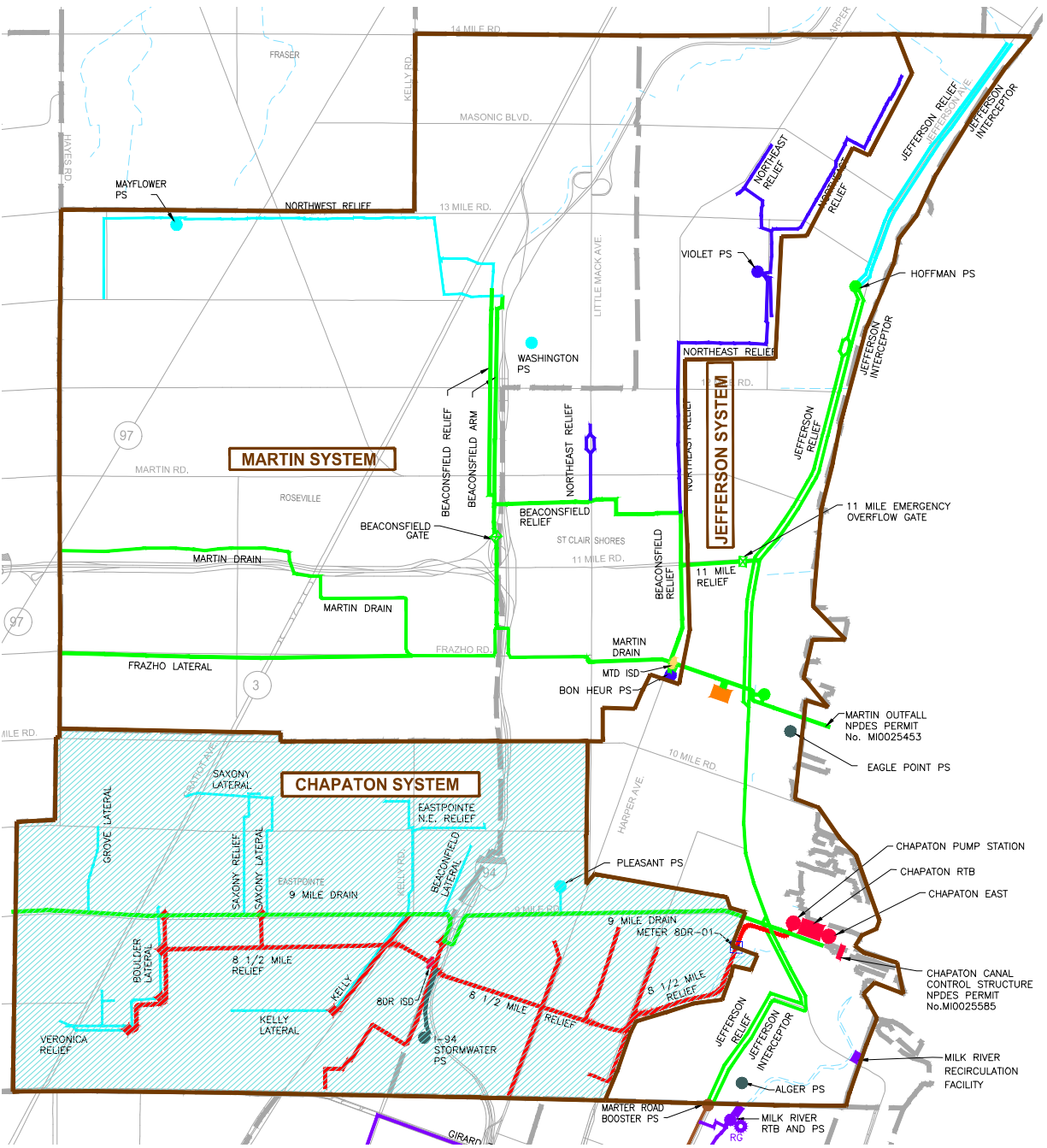
	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for November 13, 2023	
3. Approval of Minutes for October 16, 2023	3
4. Public Participation	
5. Project & Operational Updates – Vince Astorino	6
6. Consideration for approval of invoices (see attached)	30
7. Financial Report – Bruce Manning	31
8. Adjourn	

Hard copy is 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



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
- FLOW CONTROL STRUCTURE
- RTB
- GRAVITY INTERCEPTOR
- IN-SYSTEM STORAGE DEVICE
- OVERFLOW POINT
- LEVEL SENSOR
- RAIN GAUGE
- FLOW METER

PLOT INFO: Z:\2018\181053\CAD\PRECED\SEMSD_OVERALL.DWG LAYOUT: FIG 3-6_CHAPATON SYS DATE: 7/20/2021 TIME: 1:33:59 PM USER: WESEDK1

PROJECT NO.

181053

3.6

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 October 16, 2023, at 10:11 A.M.

PRESENT: Candice S. Miller, Chair
Bryan Santo, Member
Sarah Lucido, Member

ALSO PRESENT: Daniel Acciavatti, Deputy Government Relations; Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Finance Manager; Pamela Sonnenberg, Administrative Assistant; Tom Stockel, Construction Supervisor; Don VanSyckel, Board of Commissioners; Barbara Zinner, 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. Santo to approve the agenda as presented.

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of September 11, 2023, were presented. A motion was made by Ms. Lucido, supported by Mr. Santo to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

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

Mr. Astorino said that there were no wet weather events for the past month.

Mr. Astorino passed around a material sample of what the bladder is being made of for the In-System Storage project. He said it is being made by hand, in layers. The previous two attempts to manufacture it failed. They are shipping it out, it should arrive in 4-6 weeks. He presented some photos of the work being done.

Mr. Astorino stated that the Canal Rehabilitation is making very good progress. He presented a side-by-side video to show the progress. There is a 30% increase in additional storage. Ms. Zinner asked how long this new bladder will last and Mr. Astorino said 50+ years.

Mr. Astorino updated on the 2023 Interceptor Inspection program. We started to go through the data from the 8 ½ Mile section. For the most part, everything is in good shape. There are a couple areas located along Harper that there was large encrustation build up in the 24-inch pipe. We received a quote from Doetsch to send in a robot to grind the encrustations down. Ms. Lucido asked if that could possibly be why the streets flood because the street grates are clear, but water does not drain. Mr. Astorino said it could be possible, but he would have to look at it to be sure.

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. Santo to receive and file the project updates.

Adopted: YEAS: 3
NAYS: 0

Mr. Downing presented on the Canal Rehabilitation project OCIP Insurance for \$168,528.43.

A motion was made by Ms. Lucido, supported by Mr. Santo to receive and file the memo regarding the binding of the Builder's Risk and Pollution Control Insurance coverage for the Canal Rehabilitation project.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$3,680,643.24 to the board for review and approval.

Mr. Santo asked what type of backhoe was purchased and how it was purchased. Mr. Astorino said that it was brought to the Board last month. We traded in our old 1976 backhoe, received \$20,000 for it and purchased a used CAT backhoe.

A motion was made by Mr. Santo, supported by Ms. Lucido 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 Ms. Lucido.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. Santo, supported by Ms. Lucido, 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

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 October 16, 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: 10/16/23



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: November 13, 2023

Subject: Construction Projects Status Updates for the November 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 limits of the Construction Site as necessary.

- Continued to strategically remove steel I-beam bracing from the Beaconsfield shaft as designed per engineers' approval.
- Placed approved backfill sand while performing compaction and density testing within specified incremental backfill heights as required inside the Beaconsfield shaft.
- Placed 100+ cubic yards of low strength concrete backfill material inside the Beaconsfield shaft as designed.
- Layout and placed concrete forms, reinforcing steel, dowels, and water stop for East and West mechanical room floors @elevation 577' within the Beaconsfield shaft as designed.
- Poured in place high strength concrete East and West mechanical floor sections @elevation 577' within the Beaconsfield construction shaft as required.
- Assembled and installed structural metal roof trusses for the Control Building at Beaconsfield as designed.
- Installed wood sheathing and soffit on the Control Building roof at Beaconsfield as required.
- Excavated and installed water line, natural gas line and meter to the Beaconsfield Control Building
- Excavated existing roadway and set in place parallel 24in vent pipes and fittings to proposed concrete carbon vent pad at Beaconsfield as required.
- Set forms and placed concrete bases for North and South vented lampstands located in the Kelly Road Boulevard as proposed.

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 wall heights above mechanical floor elevation 577' at the Beaconsfield construction shaft.
- Set in Place all required access hatches and openings as proposed to the 8.5 tunnel as designed at the Beaconsfield site.
- Pour in place the remainder concrete walls and ceilings for the east and west access points with high strength concrete as designed in the Beaconsfield shaft work site.
- Continue to backfill and remove steel I-beam bracing from the Beaconsfield shaft as designed per engineers' approval.
- 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 roofing and electrical equipment 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 - 19	\$5,984,060.58
Remaining Budget		\$3,958,805.91

Figure 1 – Removing Steel I-Beams @ Beaconsfield Shaft



Figure 2 – Placing Concrete Backfill @ Beaconsfield Shaft



Figure 3 – Installing Supports for Mechanical Room Floor @ Beaconsfield Shaft



Figure 4 – Placing Mechanical Room Concrete Floor @ Beaconsfield Shaft



Figure 5 – Installing 24in Vent Pipe @ Beaconsfield Road



Figure 6 – Placing Concrete Thrust for Vent Pipe @ Beaconsfield Greenbelt



Figure 7 – Placing Concrete Lampstand Bases @ Kelly Rd. Blvd.



Figure 8 – New Gas Line @ Beaconsfield Control Bldg.



Figure 9 – Installing Roof Trusses @ Beaconsfield Control Bldg.



Figure 10 – Installing Roof Sheeting & Overhang @ Beaconsfield Control Bldg.



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 11 – Drone Aerial at 200 FT



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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 outfall structure foundation including sheeting, deep excavation, 1x3 stone, concrete mudmat, steel reinforcement, and 30" thick concrete base slab.
 - Constructed temporary sheet piling cofferdam for 8'x8' gravity emergency bypass conduit and outfall structure control building.
 - Lowered existing City of St. Clair Shores water main below proposed improvements.
 - Completed remaining portion of 24" flushing intake pipe from the East Building to the new outfall structure slab
 - Poured remaining divider walls and exterior walls for new screening structure adjacent to East Building.
 - Begin sheeting along northerly property line

2. Construction Look Ahead:
 - Strip all remaining vertical forms.
 - Form, place rebar, and pour top slab of screening structure.
 - Make several repairs and utility relocations on east face of East Building prior to pouring top slab.
 - Finish sheeting along northerly property line (tie-back wall) and begin sheeting along northerly edge of new canal footprint.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$27,374,710.00
Total Spent to Date	Through Pay App. #3	\$8,941,384.03
Remaining Budget		\$18,433,325.97

Figure 12 – Screening Structure divider walls in various stages of construction



Figure 13 – Lowering pre-assembled reinforcement into place for divider wall



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Figure 14 – Reinforcement for southerly wall of Screening Structure with boxout for 9EB



Figure 15 – Decorative stamped concrete wall on the North side of the canal.



Figure 16 – Outfall Structure sheeting & stone base (right), Ex. outfall building and cofferdam (left)



Figure 17 – Pouring concrete mudmat for Outfall Structure



Figure 18 – Steel reinforcement for Outfall Structure base slab



Figure 19 – Drone Aerial at 100 FT Facing East (Baseline)

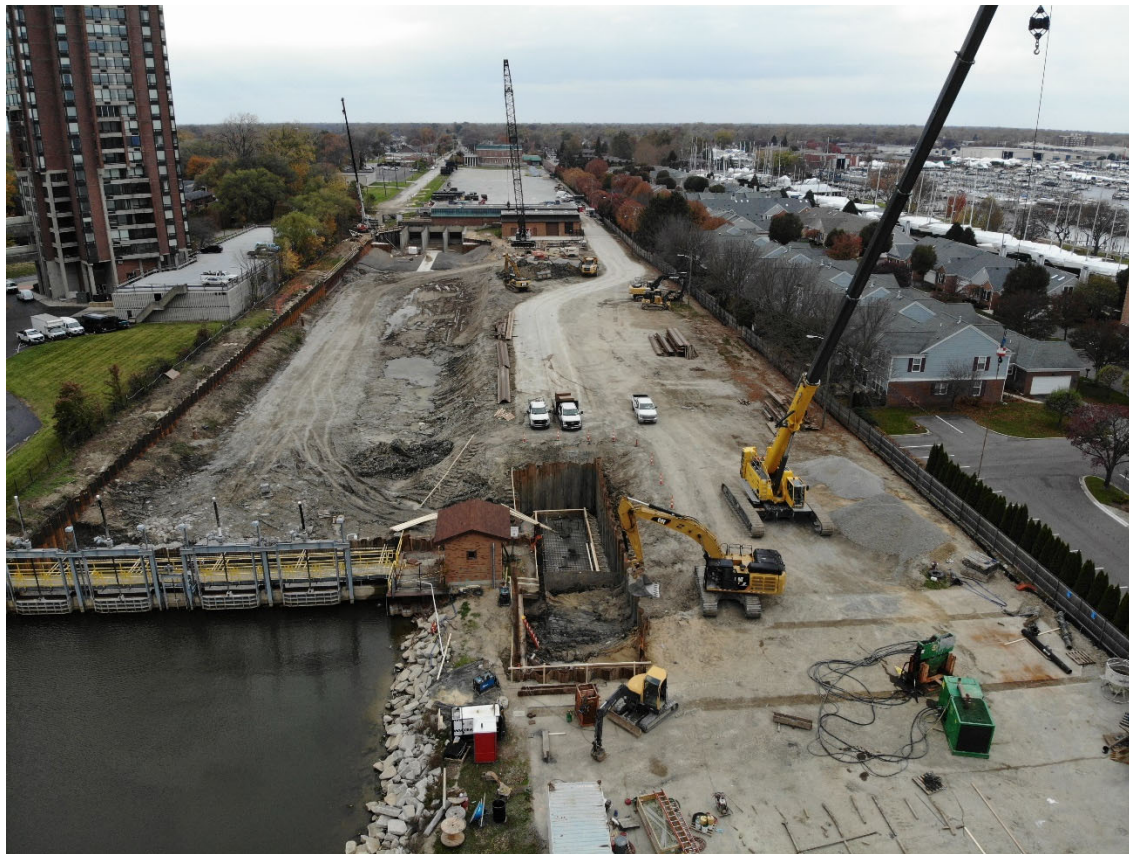


Figure 20 – Drone Aerial at 100 FT Facing East (11/6/23)



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Figure 21 – Drone Aerial at 100 FT Facing West (11/6/23)



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 MIDD 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. All pipe inspections have been completed.
2. Second crew is currently performing manhole scans with 75% already completed.

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3. Several areas of concern discovered during the inspection along the Harper lateral were quickly addressed by MCPWO staff.
4. Overall, the 8-1/2 pipe network is in good shape with only localized spot repairs expected.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	4/10/23	\$403,919.38
Total Spent to Date	Through Pay App #2	\$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

EIGHT AND ONE-HALF MILE RELIEF
10/11/2023 - 11/7/2023

<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>
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	\$ 1,752.01	Invoice #146307 - 10.09.23	Chapaton Basin Gate Rehab Design-08.28.23 - 09.24.23	\$ 18,396.10
		Astorino	Colville Electric	\$ 649.75	Invoice #23491 - 09.30.23	Canal Rehabilitation Power Outlet	
		Astorino	Colville Electric	\$ 821.25	Invoice #23490 - 09.30.23	Chapaton Storm Pump 1 Repairs	
		Astorino	Colville Electric	\$ 2,722.94	Invoice #23487 - 09.30.23	Chapaton Storm Pump 1 Repairs	
		Astorino	Colville Electric	\$ 1,695.72	Invoice #23562 - 10.24.23	Chapaton Canal Rehabilitation Power Outlet	
		Astorino	Department of Roads	\$ 612.41	Invoice #30254A - 09.13.23	Fleet Fuel - August 2023	
		Astorino	Department of Roads	\$ 584.88	Invoice #302572A - 10.16.23	Fleet Fuel - September 2023	
		Astorino	DTE Energy	\$ 603.31	Invoice #23-708 - 08.31.23	Monthly Electric - 09.01.23 - 09.30.23	
		Astorino	DTE Energy	\$ 7,217.56	Invoice #23-806 - 09.13.23	Monthly Electric - 09.11.23 - 10.08.23	
		Astorino	Evoqua	\$ 608.12	Invoice #906128143 - 10.05.23	Lab Supplies	
		Astorino	Fishbeck	\$ 1,365.00	Invoice #427401 - 09.06.23	As-Needed - EPA Grant Assistance	
		Astorino	Fishbeck	\$ 1,470.00	Invoice #429482 - 11.01.23	As-Needed Engineering through 10.27.23	
		Astorino	Kennedy Industries	\$ 1,049.50	Invoice #637469 - 07.18.23	Pump Troubleshooting	
		Astorino	METCO	\$ 10,115.00	Invoice #2207B-01 - 11.03.23	Chapaton HVAC Study through 10.29.23	\$ 86,645.00
		Astorino	NTH Consultants	\$ 13,295.75	Invoice #634023 - 10.09.23	Chapaton Structural Repairs Warranty Inspection	\$ 1,444.25
		Astorino	NTH Consultants	\$ 1,601.00	Invoice #634019 - 10.06.23	2023 Interceptor Inspection through 09.29.23	\$ 22,928.18
		Astorino	NTH Consultants	\$ 1,396.25	Invoice #634253 - 11.03.23	Chapaton Structural Repairs Warranty Inspection	
		Astorino	NTH Consultants	\$ 2,262.95	Invoice #634253 - 11.03.23	As Needed - Density Testing - Canal Rehab	\$ 83,045.05
		Astorino	OHM	\$ 2,330.00	Invoice #23-68065 - 10.10.23	Ventilation Design through 09.30.23	\$ 80,100.00
		Astorino	Tetra Tech	\$ 4,605.37	Invoice #52148921 - 10.27.23	Chapaton Electrical CCA through 09.29.23	\$ 700,588.00
		Astorino	Tetra Tech	\$ 42,959.66	Invoice #52147762 - 10.25.23	In-System Storage CCA through 09.26.23	\$ 316,150.74
		Astorino	Uline	\$ 1,531.89	Invoice #168793890 - 09.22.23	Training Supplies	
		Astorino	Wade Trim	\$ 16,271.48	Invoice #2029173 - 11.02.23	Chapaton Flushing Improvements Design through	\$ 182,912.31
		Astorino	Wade Trim	\$ 134,089.35	Invoice #2029176 - 11.02.23	Chapaton Canal Rehab CCA through 10.27.23	\$ 1,670,751.90
		Astorino	Weiss Construction	\$ 326,205.74	Invoice #WWS-2021-006 APP 18 - 09.22.23	In-System Storage through 09.22.23	\$ 4,184,893.60
		Astorino	Weiss Construction	\$ 226,087.69	Invoice #WWS-2021-006 APP 19 - 10.24.23	In-System Storage through 10.20.23	\$ 3,958,805.91
		Stockel	Wild Bill & Associates	\$ 1,170.00	Invoice #9252 - 05.08.23	Chapaton Boat Launch Closed Signs	
		Astorino	Z Contractors	\$ 4,840,413.30	Invoice #APP 3 - 10.30.23	Chapaton RTB Canal Rehab through 10.30.23	\$ 18,433,325.97
		Total				\$ 5,645,487.88	

Budget to Actual
8.5 Mile Relief
As of Oct 31, 2023 =8%

DESCRIPTION	2024 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	275,000			275,000	0.0%
Other Revenue	5,000			5,000	0.0%
Grants	47,009,450		8,832,404	-	18.8%
8.5 O&M/Charge Required Revenue	5,260,440		2,630,220	2,630,220	50.0%
PY Revenue-Fund Balance	11,372,850			11,372,850	0.0%
Reimbursement from St. Clair Shores	710,000			710,000	0.0%
Use of Reserve	270,560			270,560	0.0%
Total Revenue Accounts	64,903,300	-	11,462,624	15,263,630	17.7%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000			6,000	0.0%
Dues, Training, Conf, Subs.	17,400		2,957	14,443	17.0%
Engineering					
PS Main Floor Ventilation	750,000			750,000	0.0%
Digital Twin Model Pilot Project	275,000			275,000	0.0%
Sluice & Dewatering Gates Rehab/Replacement Project	4,912,400			4,912,400	0.0%
Flushing	4,863,290		44,198	4,819,092	0.9%
General Construction/Engineering Contingency-All Projects	567,500			567,500	0.0%
As Needed Engineering	161,460		25,471	135,989	15.8%
9 Mile Emergency Bypass Structural Rehab	881,420		3,182	878,238	0.4%
9 Mile Bypass Pipe Structural Repairs-Construction/CA	50,000		14,692	35,308	29.4%
In-System Storage-Construction Admin and Construction	2,617,840			2,617,840	0.0%
In-System Storage-Construction Admin and Construction (County ARPA)	2,150,250		624,998	1,525,252	29.1%
Electrical Rehab (State and County ARPA Funds)	15,369,930		11,535	15,358,395	100.0%
Canal Rehab (State ARPA Funds)	29,489,270		8,195,871	21,293,399	100.0%
New Equipment	113,750			113,750	0.0%
Office Supplies	500			500	0.0%
Operating Supplies	96,450		2,979	93,471	3.1%
Other Professional Svcs	56,500		880	55,620	1.6%
Personnel Services	1,251,350			1,251,350	0.0%
Repair & Maintenance	614,500		13,352	601,148	2.2%
Contribution to Reserve	288,240			288,240	0.0%
Scada System	82,050			82,050	0.0%
Utilities	288,200		21,590	266,610	7.5%
Total Expense Accounts	64,903,300	-	8,961,705	55,941,595	13.8%

	O&M Balance 9/30/2023	O&M	Total 10/31/2023
Cash - Operating	15,698,301	2,500,919	18,199,220
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		11,462,624	11,462,624
Expenditures		8,961,705	8,961,705
			0
Equity*	15,698,301		18,199,220

Detail of 2023 Equity*

Chlorine storage tank relining	7,500	Capital Reserve	1,768,010
Painting	50,000	SCADA Reserve	158,470
As needed Engineering	35,723	SRF Replacement Reserve	2,851,350
Sluice and Dewatering Gates Rehab/Replace Project	3,958,336	9 Mile Bypass Pipe Struct Rprs	29,726
Flushing	3,850,637	In System Storage	1,961,964
9 Mile Emergency Bypass Structural Rehab	996,585	East Building Server	30,000

ARPA Funds	Remaining
County	
ISS	2,595,237
Electrical	9,500,000
State	
Electrical	5,903,393
Canal Rehab	20,741,110
Federal Earmark	2,500,000