

# AGENDA

## Oakland-Macomb Interceptor Drain Drainage Board Macomb and Oakland Counties

**March 15, 2023 – 11:30 a.m.**

Office of the Oakland County Water Resources Commissioner  
One Public Works, Building 95 West  
Waterford, Michigan, and Microsoft Teams

1. Call meeting to order

Board Members:

Michael Gregg, Chair, Michigan Department of Agriculture and Rural Development  
Candice Miller, Macomb County Public Works Commissioner  
Jim Nash, Oakland County Water Resources Commissioner

2. Motion to approve the meeting agenda for March 15, 2023
3. Motion to approve the Drainage District Board Meeting Minutes from February 22, 2023
4. Public Comment
5. Memorandum requesting the Board approve the Budget and Flow Allocations for 2023/2024
6. Motion to approve the following Change Orders:
  - a) Walsh Construction Change Order No. 31 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$63,734.54
7. Motion to approve the following Construction Estimates:
  - a) Construction Estimate No. 29 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$729,241.06
  - b) Construction Estimate No. 24 for Marra Services for NI-EA Contract No. One for PCI 4 Rehabilitation in the amount of \$ 453,774.16 with a transfer to the Oakland County Treasurer in the amount of \$3,514.43
8. Status of OMID Repairs Project
9. Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing
10. Motion to approve the following invoices:
  - 1) Labor/Fringes/Non-Direct Labor Factor

• Segment 5 NI-EA Construction	\$	5,843.61
• Segment 5 NESPS Mech./Elect. Construction	\$	10,095.46
  - 2) Equipment Charges

• Segment 5 NI-EA Construction	\$	206.16
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	• Segment 5 NESPS Mech./Elect. Construction		\$	347.54
b)	ASI			
	1) Invoice No. 8358-47a	NESPS	\$	17,523.99
	2) Invoice No. 8381-48a	O&M	\$	4,715.74
	3) Invoice No. 8380-48	NESPS	\$	65,823.31
		O&M	\$	6,041.00
c)	Hesco			
	1) Invoice No. 2314175	O&M	\$	5,597.50
	2) Invoice No. 2314176	O&M	\$	4,740.00
	3) Invoice No. 2314177	O&M	\$	5,358.91
	4) Invoice No. 2314178	O&M	\$	1,110.00
d)	Kennedy Industries			
	1) Invoice No. 635125	O&M	\$	3,182.50
	2) Invoice No. 635133	O&M	\$	1,858.00
e)	Metco			
	Invoice No.1811-50	O&M	\$	120,788.27
f)	Motor City Electric Technologies Inc.			
	Invoice No. 95022	O&M	\$	1,525.74
g)	NTH Consultants, Ltd			
	1) OMID System Immediate Repairs			
	Invoice No. 632143	O&M	\$	277.84
	2) Engineering Design Services Rehabilitation of NI-EA Sections PCI-4			
	Invoice No. 632144	NI-EA	\$	9,143.22
	3) Contract No. 1 PCI-4			
	Invoice No.632145	NI-EA	\$	65,761.73
	4) Consulting Services 2021 OMID System Inspection			
	Invoice No.632150	O&M	\$	2,355.11
h)	PM Technologies			
	Invoice No.	O&M	\$	2,019.43

10. Other Business

11. Adjourn

Next Regular Meeting: April 19, 2023, 11:30 a.m., Eastern Standard Time.

**Agenda Item No. 3**

Board Meeting Minutes from February 22, 2023

**MINUTES OF THE REGULAR MEETING OF THE DRAINAGE BOARD  
FOR THE OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT**

February 22, 2023

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held at the office of the Oakland County Water Resources Commissioner, One Public Works Drive, Building 95 West, Waterford, Michigan on the 22<sup>nd</sup> day of February at 11:30 a.m. Eastern Standard Time and via Microsoft Teams.

**PRESENT:**

Michael Gregg, Chairperson and Deputy for Gary McDowell, Director of the Michigan Department of Agriculture and Rural Development; Brian Baker for Candice Miller, Member and Macomb County Public Works Commissioner; and Jim Nash, Secretary and Oakland County Water Resources Commissioner.

**OTHERS PRESENT:**

Representing the office of the Macomb County Public Works Commissioner: Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Anne Vaara, Steve Korth, Sid Lockhart, Joel Brown, Brian Coburn, Raphael Chirolla, Megan Koss, and Stephanie Lajdziak. Others in attendance: Fritz Klingler, FK Engineering; Terry Moore, Metco; Shawn Phelps and Jeff Ragle, OC Fiscal Services; Larry Gilbert, Saju Sachidanandan, and Michelle Kitzinger, NTH Consultants; Brady Harrington; MDARD; Dave Pauline, Walsh Construction

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 11:31 p.m.

2. Agenda.

Motion by Nash, supported by Baker, to approve the February 22, 2023, agenda as presented.

ADOPTED: Yeas - 3  
              Nays - 0

3. Minutes.

Motion by Baker, supported by Nash, to approve the minutes of the January 18, 2023, meeting.

ADOPTED: Yeas - 3  
              Nays - 0

4. Public Comment.

None.

5. Change Order.

The following Change Orders were submitted to the Board for approval:

- a) D'Angelo Brothers Inc. Change Order No. 1 for the Extension of D'Angelo Underground Services Contract #6007. Motion by Nash, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- b) Cortis Brothers Trucking & Excavating, Inc. Change Order No. 1 for the Extension of the Cortis Underground Services Contract #6018. Motion by Nash, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- c) Walsh Construction Change Order No. 30 for the NESPS Pump & Electrical Upgrades Project. Motion by Nash, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- d) Marra Services Change Order No. 5 for the NI-EA OMID Contract One, PCI-4 Rehabilitation for a net increase of \$70,288.59 and 94 calendar days. Motion by Baker, supported by Nash, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

6. Construction Pay Estimates.

The following Construction Pay Estimates were submitted to the Board for approval:

- a) Construction Estimate No. 28 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$760,500.83 with a transfer to the Oakland County Treasurer in the amount of \$792.09. Motion by Nash, supported by Baker, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3  
Nays - 0

- b) Construction Estimate No. 23 for Marra Services for NI-EA Contract No. One for PCI-4 Rehabilitation in the amount of \$727,781.60. Motion by Baker, supported by Nash, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3  
Nays - 0

7. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS and NI-EA.

Fritz Klingler of FK Engineering presented the Project Progress Update to the Board and summarized the status of various projects. Motion by Nash, supported by Baker, to receive and file the report and summary.

ADOPTED: Yeas - 3  
 Nays - 0

8. Financial Reports.

Shawn Phelps presented the financial reports for Segments 1 through 5 and the NESPS. Motion by Baker, supported by Nash, to receive and file the financial reports.

ADOPTED: Yeas - 3  
 Nays - 0

9. Invoices.

The following invoices were submitted to the Board for approval:

1) Labor/Fringes/Non-Direct Labor Factor			
• Segment 5 NI-EA Construction		\$	6,380.97
• Segment 5 NESPS Mech./Elect. Construction		\$	9,937.43
2) Equipment Charges			
• Segment 5 NI-EA Construction		\$	226.47
• Segment 5 NESPS Mech./Elect. Construction		\$	351.15
b) ASI			
1) Invoice No. 8357-47	NESPS	\$	85,975.06
	O&M	\$	4,593.00
c) Clark Hill			
1) Invoice No. 1275424	O&M	\$	945.00
2) Invoice No. 1275436	NI-EA	\$	351.00
3) Invoice No. 1282926	NI-EA	\$	864.00
d) CSM			
Invoice No. 23-042	O&M	\$	857.73
e) Hesco			
1) Invoice No.2213522	O&M	\$	555.00
2) Invoice No.2213955	O&M	\$	9,883.75
3) Invoice No.2314127	O&M	\$	6,944.65
f) Jacobs			
Invoice No. C6A19900-06	O&M	\$	110,863.73
g) Kone			
Invoice No. 1158457903	O&M	\$	300.00
h) Meadowbrook Insurance			
Invoice No. 10700	NESPS	\$	54,940.39
i) Metco			
Invoice No. 1811-49	O&M	\$	75,077.15
j) Motor City Electric Company			
1) Invoice No. 94985	O&M	\$	495.41
2) Invoice No. 94986	O&M	\$	90.00
3) Invoice No. 94987	O&M	\$	90.00
4) Invoice No. 94988	O&M	\$	90.00

k)	NTH Consultants, Ltd		
1)	OMID System Immediate Repairs		
	Invoice No. 631960	O&M	\$ 2,289.13
2)	Engineering Design Services Rehabilitation of NI-EA Sections PCI-4		
	Invoice No. 631961	NI-EA	\$ 19,332.51
3)	Contract No. 1 PCI-4		
	Invoice No. 631962	NI-EA	\$ 110,699.89
4)	Eng./Consulting Services NESPS Upgrade		
	Invoice No. 631963	NESPS	\$ 161.35
5)	Consulting Services 2021 OMID System Inspection		
	Invoice No. 631964	O&M	\$ 5,661.35
6)	Rehabilitation Program 2021 Closeout Services		
	Invoice No. 631965	O&M	\$ 1,659.63
7)	Additional NESPS Maintenance		
	Invoice No. 631966	O&M	\$ 3,190.08
l)	PM Technologies		
1)	Invoice No. 70876793	O&M	\$ 398.50
2)	Invoice No. 73275637	O&M	\$ 893.56
3)	Invoice No. 102431	O&M	\$ 550.00
m)	PMA Consultants		
1)	Invoice No. 03559.01-31	NI-EA	\$ 9,787.64
2)	Invoice No. 03559.01-32	NI-EA	\$ 14,939.02
n)	Rotor		
1)	Invoice No. 12573	O&M	\$ 2,930.00
2)	Invoice No. 12574	O&M	\$ 732.50
3)	Invoice No. 12575	O&M	\$ 732.50
4)	Invoice No. 12576	O&M	\$ 439.50
5)	Invoice No. 12577	O&M	\$ 879.00
6)	Invoice No. 12578	O&M	\$ 3,088.01
7)	Invoice No. 12579	O&M	\$ 2,456.22
8)	Invoice No. 12580	O&M	\$ 7,860.30
9)	Invoice No. 12582	O&M	\$ 3,489.90
10)	Invoice No. 12583	O&M	\$ 3,288.51

Motion by Nash, supported by Baker, to approve the invoices as presented.

ADOPTED: Yeas - 3  
Nays - 0

10. Other Business.  
None.

11. Adjourn.  
Motion by Nash, supported by Baker, to adjourn the February 22, 2023, meeting at 12:30 p.m.

ADOPTED: Yeas - 3  
Nays - 0

Next Regular Meeting: *Office of the Oakland County Water Resources Commissioner, One Public Works Drive, Building 95 West, Waterford, Michigan* and electronically at 11:30 a.m., Eastern Standard Time on March 15, 2023.



I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage District, at a meeting held on February 22, 2023 and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976, as amended, and that the minutes were kept and will be or have been made available to the public as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 22<sup>nd</sup> day of February 2023.



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Jim Nash, Secretary  
Oakland-Macomb Interceptor Drain Drainage Board

## **Agenda Item No. 4**

Public Comment

**Agenda Item No. 5**

Budget and Flow Allocations for  
Rate Year 2023/2024



## Oakland-Macomb Interceptor Drain Drainage District

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**TO:** Mike Gregg, Chairman  
Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)

**FROM:** Raphael Chirolla; Financial Services OCWRC  
Bruce Manning, Financial Manager MCPWO

**SUBJECT:** Rate Year (RY) 2023/24 Budget Recommendation

**DATE:** March 15, 2023

Staff of the Macomb County Public Works Commissioner's Office and the Oakland County Water Resources Commissioner's Office recently met to discuss the budget, cost allocation, and capital improvement plan for the upcoming rate year. Staff recommends that the Board approve the proposed sewer charges contained herein for the rate year beginning July 1, 2023.

The main elements of the proposed budget and sewer charges are as follows:

- 1) The Great Lakes Water Authority (GLWA) approved a 2.4% increase in sewer charges to OMIDDD.
- 2) The proposed operation and maintenance budget includes an increase of 2.8% (see Exhibit A)
- 3) The proposed revenue requirement is increasing by 2.2%.
- 4) The method for determining the split between Oakland and Macomb was approved on March 20, 2019, and will remain in place through RY 2024/25 unless GLWA modifies the sewer charge methodology. The cost allocation using this methodology is as follows:
  - a. GLWA common-to-all and OMIDDD operations and maintenance costs are allocated based on the ten-year rolling average as shown in Exhibit B. This year's allocation is 31.58% Clinton Oakland Sewage Disposal System (COSDS) and 68.42% to the Macomb Interceptor Drain Drainage District (MIDDD).
  - b. GLWA's Combined Sewage Overflow Program is allocated 39.48% to COSDS and 60.52% to MIDDD per the 1999 Rate Settlement Agreement.
  - c. Capital Improvement Reserve contributions are allocated based on the current GLWA Contract Capacity split of 33.10% for the COSDS and 66.90% for the MIDDD.
- 5) The budget proposes to fund \$1,350,000 of new major maintenance work and \$9,800,000 of new capital improvements from the OMIDDD operation and maintenance fund, in addition to projects that are not revenue financed (see Exhibit C).

**Recommended Action: Approve the proposed operating budget (Exhibit A), cost allocation (Exhibit B), and the Capital Improvement Program (Exhibit C) for the rate year beginning July 1, 2023, as presented.**

Effective July 1, 2023

# Exhibit A

## Annual Operating Charges

	Current 2023	2024	COSDS	MIDD	Annual		Monthly	
	Budget	Budget	%	%	COSDS	Macomb	COSDS	MIDD
<b>GLWA</b>								
Common-to-all and OMIDDD Charges	\$ 68,870,100	\$ 70,483,000	31.58%	68.42%	\$ 22,258,531	\$ 48,224,469		
CSO Program	1,692,300	1,738,800	39.48%	60.52%	686,478	1,052,322		
Total	70,562,400	72,221,800			22,945,009	49,276,791	\$ 1,912,084.08	\$ 4,106,399.25
<b>OMIDDD</b>								
Operations and Maintenance Expense								
Sewer System Maintenance	595,360	614,000	31.58%	68.42%	193,901	420,099		
Sewer System Engineering	68,220	98,530	31.58%	68.42%	31,116	67,414		
Pump Maintenance Unit	2,237,780	2,184,160	31.58%	68.42%	689,758	1,494,402		
Systems Control Unit	410	270	31.58%	68.42%	85	185		
Mapping Unit	1,300	680	31.58%	68.42%	215	465		
Miss Dig	110	-	31.58%	68.42%	-	-		
General and Administrative	1,261,030	1,381,940	31.58%	68.42%	436,417	945,523		
Subtotal	4,164,210	4,279,580			1,351,492	2,928,088	112,624.33	244,007.33
Non Operating	-	-	31.58%	68.42%	-	-	-	-
Major Maintenance	1,150,000	1,150,000	31.58%	68.42%	363,170	786,830	30,264.17	65,569.17
Emergency Maintenance	500,000	-	31.58%	68.42%	-	-	-	-
Capital Improvement	800,000	1,300,000	33.10%	66.90%	430,300	869,700	35,858.33	72,475.00
Subtotal	2,450,000	2,450,000			793,470	1,656,530		
O&M Non-Rate Revenue	(210,060)	(300,490)	31.58%	68.42%	(94,895)	(205,595)	(7,907.92)	(17,132.92)
<b>FY 2024 Total Fixed Charges</b>	<b>\$ 76,966,550</b>	<b>\$ 78,650,890</b>			<b>\$ 24,995,076</b>	<b>\$ 53,655,814</b>	<b>2,082,922.99</b>	<b>4,471,317.83</b>

Capital Improvements are defined as investments that are made to assets that exceed \$5,000 and increase the useful life of assets by five years or more.

### Debt Service\*

2010A mfa 5368-02	1,673,875	1,675,375
2010B	-	-
2011A mfa 5368-02	1,619,688	1,623,875
2013A mfa 5368-03	3,953,400	3,951,200
2014A	471,844	475,144
2015A mfa 2001-01	544,250	544,625
2019 refunding	445,528	458,498
2019 revenue	507,315	509,798
2020A	3,273,900	3,275,900
2022 Issuance Projected Debt**	887,750	-
2023 Issuance Projected Debt***	-	1,904,900
Total Debt Service	13,377,549	14,419,314

### Total OMIDDD Related Revenue Requirements

**90,344,099**      **93,070,204**

\* Estimated annual debt service for the 2024 budget updated February 2023

\*\* 2022 issuance projected debt for 2023 using dated date of 9/1/2022, funding of approximately \$15 million, final maturity 7/1/2042, and true interest cost of approximately 2.6%.

\*\*\* 2023 issuance projected debt for 2024 using a dated date of 9/1/2023, funding of approximately \$28 million (refer to Exhibit C), final maturity 7/1/2043, and true interest cost of approximately 3.2%.

**Exhibit B**  
**Oakland-Macomb Interceptor Drain Drainage District**  
**Fiscal Year (FY) 2023/24 Budget**

*Effective July 1, 2023*

**Flow Data**

Year	Fiscal Year	OMIDDD Allocation Flows		OMIDDD Allocation Flows	
		COSDS (cfs)	MIDDD (cfs)	COSDS (%)	MIDDD (%)
1	FY2012/13	29.89	62.82	32.24%	67.76%
2	FY2013/14	30.74	64.80	32.18%	67.82%
3	FY2014/15	29.74	64.76	31.47%	68.53%
4	FY2015/16	29.36	65.08	31.09%	68.91%
5	FY2016/17	30.63	66.50	31.54%	68.46%
6	FY2017/18	34.05	69.60	32.85%	67.15%
7	FY2018/19	34.05	69.60	32.85%	67.15%
8	FY2019/20	32.51	70.79	31.47%	68.53%
9	FY2020/21	27.02	64.16	29.64%	70.36%
10	FY2021/22	32.11	73.61	30.37%	69.63%
Current FY2022/23 (10-Yr)		31.08	66.76	31.77%	68.23%
<b>Prop. FY2023/24 (10-Yr A)</b>		<b>31.01</b>	<b>67.17</b>	<b>31.58%</b>	<b>68.42%</b>

1. All annual flows are based on the average monthly flow rates, proportioned based on the number of days in each month.
2. COSDS Flows for fiscal years FY2012/13 thru FY2014/15 include a 30% adjustment to account for diversion to the Clinton River Wastewater Resource Reclamation Facility (CRWRRF).
3. Due to a catastrophic failure at the CRWRRF (COSDS's non-OMID outlet), there was volatility in the flow delivered from COSDS to OMID in FY2017/18 and FY2018/19. When paired, these two years offset each other and the volatility is mitigated. The OMID rates are based on a rolling 10-year average flow rate. In Rate Years 2028/29 and 2029/30, these volatile years will roll off the average, which will create volatility in the average if the actual values are used. To reduce this future volatility, the actual COSDS-to-OMID flows and MIDDD flows for FY2017/18 (COSDS = 37.74 cfs, MIDDD = 67.29 cfs) and FY2018/19 (COSDS = 30.35 cfs, MIDDD = 71.90 cfs) have both been replaced with the average for these two years (COSDS = 34.045 cfs, Macomb = 69.595 cfs).
4. Except as noted above, COSDS fiscal year flows are based on measured flow, which includes actual diversion to CRWRRF.

**EXHIBIT C**  
**OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT**  
**CAPITAL IMPROVEMENT PROGRAM**  
**February 14, 2023**

**Fund FND82912 Oakland Macomb InterceptorCh21**

Description	2022 Actual	2023 Updated	2024 Proposed
<b>UNDESIGNATED BEGINNING BALANCE</b>	<b>\$7,639,027</b>	<b>\$7,214,380</b>	<b>\$14,380</b>
Transfer to Emergency Reserve	(\$1,500,000)	(\$7,200,000)	
Net Change from Operations	\$1,075,353		
<b>UNDESIGNATED ENDING BALANCE</b>	<b>\$7,214,380</b>	<b>\$14,380</b>	<b>\$14,380</b>
<b>MAINTENANCE RESERVE BEGINNING BALANCE</b>	<b>\$2,848,992</b>	<b>\$3,694,956</b>	<b>\$3,144,956</b>
Maintenance Reserve Revenue	\$1,500,000	\$1,150,000	\$1,150,000
PRJ-12842 NESPS Oper Control Transition	(\$113,203)	(\$60,000)	
PRJ-13014 NESPS Emergency Contingencies	(\$51,378)	(\$90,000)	
PRJ-13015 OMID Immediate Repairs	(\$42,333)	(\$150,000)	
Crane Replacement		(\$300,000)	(\$300,000)
P4 VFD Replacement		(\$300,000)	(\$300,000)
CCTV Inspection		(\$250,000)	(\$250,000)
PLC Replacement at NESPS Generator		(\$50,000)	
Wet Well Cleaning		(\$500,000)	(\$500,000)
General Major Maintenance	(\$447,122)		
Total Maintenance Reserve Expense	(\$654,036)	(\$1,700,000)	(\$1,350,000)
<b>MAINTENANCE RESERVE ENDING BALANCE</b>	<b>\$3,694,956</b>	<b>\$3,144,956</b>	<b>\$2,944,956</b>
<b>EMERGENCY RESERVE BEGINNING BALANCE</b>	<b>\$1,500,000</b>	<b>\$1,429,863</b>	<b>\$9,129,863</b>
Emergency Reserve Revenue	\$500,000	\$500,000	
Expenses	(\$2,070,137)		
Transfer from Undesignated	\$1,500,000	\$7,200,000	
<b>EMERGENCY RESERVE ENDING BALANCE</b>	<b>\$1,429,863</b>	<b>\$9,129,863</b>	<b>\$9,129,863</b>
<b>CAPITAL RESERVE BEGINNING BALANCE</b>	<b>\$2,413,875</b>	<b>\$2,978,217</b>	<b>\$8,971,097</b>
Capital Reserve Revenue	\$807,426	\$800,000	\$1,300,000
PRJ-13016 OMID Flow Control Improvements	(\$3,626)	(\$400,000)	(\$7,000,000)
PRJ-13017 NESPS Security Upgrades	(\$146)		
1-3019 OMID NIEA Sewer Rehabilitation Design		\$2,236,910	
1-3020 NESPS Mechanical and Electrical Upgr/Design		\$3,905,970	
PRJ-17059 OMID Odor/Corrosion System Design	(\$232,565)	(\$500,000)	(\$500,000)
PRJ-17060 OMID Flow Ctrl Struct Rehab	(\$3,942)		
NESPS Discharge Chamber Correction		(\$50,000)	(\$200,000)
CS-6 Bypass System Installation			(\$1,000,000)
NESPS Wet Well Heaters			
OMID Odor and Corrosion Facility Design			
Macomb SCADA Upgrades OMIDDD Portion			
OMID PCI-7 Bypass Feasibility Analysis			(\$450,000)
Pipe Lining PCI-7			
MIDDD Segment 5-OMID Portion			(\$650,000)
General Capital	(\$2,803)		
Total Capital Reserve Expense	(\$243,084)	\$5,192,880	(\$9,800,000)
<b>CAPITAL RESERVE ENDING BALANCE</b>	<b>\$2,978,217</b>	<b>\$8,971,097</b>	<b>\$471,097</b>
<b>Reserve</b>			
<b>Undesignated</b>	<b>\$7,214,380</b>	<b>\$14,380</b>	<b>\$14,380</b>
<b>Major Maintenance</b>	<b>\$3,694,956</b>	<b>\$3,144,956</b>	<b>\$2,944,956</b>
<b>Emergency Maintenance</b>	<b>\$1,429,863</b>	<b>\$9,129,863</b>	<b>\$9,129,863</b>
<b>Capital</b>	<b>\$2,978,217</b>	<b>\$8,971,097</b>	<b>\$471,097</b>
<b>NET POSITION ENDING BALANCE</b>	<b>\$15,317,417</b>	<b>\$21,260,297</b>	<b>\$12,560,297</b>
12.5% of the Operations and Maintenance Budget		\$9,340,826	\$9,589,139

EXHIBIT C  
OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT  
CAPITAL IMPROVEMENT PROGRAM  
February 14, 2023

Fund FND82912 Oakland Macomb InterceptorCh21

**Current Construction Funds as of 12/31/2022**

<b>Project Description</b>	<b>Remaining Funds Committed for Capital Projects (In- progress)</b>
PRJ-13308 OMID NI-EA CONSTRUCTION	\$20,889,417
PRJ-13309 NESPS MECH-ELEC CONSTRUCTION	\$11,521,125
PRJ-13252 OMID Segment 5	\$1,322,242
<b>Total Remaining Expense in Construction Funds</b>	<b>\$32,410,542</b>

**Future Bonded Projects Through 2024**

<b>Project Description</b>	<b>Project Estimate</b>
NIEA Contract II Bond (Summer 2023)	\$16,000,000
OMID Odor/Corrosion Facility Construction (Summer 2023)	\$12,000,000
<b>Total Bonded Projects</b>	<b>\$28,000,000</b>



## **Agenda Item No. 6**

### **Change Order**

**CHANGE ORDER NO. THIRTY-ONE**

Oakland Macomb Interceptor Drain, Drainage District (OMIDDD)

For Construction of the Pump and Electrical Upgrades Project

Northeast Sewage Pumping Station (NESPS)

Located in the City of Detroit, Wayne County, Michigan

**CONSTRUCTION MANAGER,  
AT RISK (CMAR)  
Walsh Construction Co. II, LLC**

**Authorization for:**

- 1.) Update Bio-Filter Network Connection; 2) Generator Switchgear Modification for Tie-Breaker Interlock Override Control Switch and Control Circuits; 3.) Provide Load Transfer Switch and receptacle for portable generator connection at the Control Structure 9 facility and other remote locations; 4.) Labor costs for expedited stop log removal during the KGV # 5 shutdown; 5.) Revise conduit and wiring runs for the pump and motor vibration power supply; 6.) Provide conduit and cable for installation of the Station Flood Alarm; 7.) e-Builder Project Management License renewal; 8.) Electrical, Instrumentation, and I & C revisions from RFI response.

\*\*\*\*\*

Address:

Walsh Construction Co. II LLC  
3031 West Grand Blvd., Suite 640  
Detroit, MI 48202

Change Order No. 31 Date: March 03, 2023

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
31 -1	<p><b><u>LOCATION:</u></b></p> <p>The Northeast Sewage Pumping Station; Detroit, Wayne County, Michigan, and Control Structure Nine, Warren, Macomb County, Michigan</p> <hr/> <p><b><u>DESCRIPTION (Change/ Add)</u></b></p> <p>Extend the conduit raceway for the Bio Filter network communication to allow a direct connection to the new Network Cabinetry in lieu of a connection to Control Panel 4.</p>	LS	1	\$1,952.61	\$1,952.61	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 31

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<p><b><u>REASON:</u></b></p> <p>The existing as-built information for the ethernet connection for the HVAC and Bio Filter control panels indicates connections are to Control Panel 4. In reality, the cables were determined to terminate at the Security Cabinet. The proposed changes in moving the connections to the new Network Cabinetry will result in a more efficient system and will result in simplified programming changes and/or updates in the future.</p> <p>Attachment : Walsh Construction Co. PCI 970172</p>					
31 -2	<p><b><u>DESCRIPTION (Change/ Add):</u></b></p> <p>Install modifications to the "Generator Tie-Breaker Interlock Override Control Switch" with modifications as required to the control circuitry.</p> <p><b><u>REASON:</u></b></p> <p>The concern regarding electrical loads being non-operational from the generator system is resolved by the addition of a "Generator Tie-Breaker Interlock Override Control Switch", and with the necessary modifications to the affected control circuits.</p> <p>Attachment: Walsh Construction Co, PCI No. 970171</p>	LS	1	\$5,971.81	\$5,971.81	-0-
31 -3	<p><b><u>DESCRIPTION (Extra/ Add):</u></b></p> <p>Provide an electrical connection to the CS-9 Control Cabinet exterior that will allow for a safe and efficient tie-in of a portable electric generator unit in the event of power failure. Included in this extra is a universal "pig-tail" extension cord assembly that can also used at other remote control locations in the event of an emergency. (Note: This change reflects the accounting adjustment described in previous C.O. # 30, Item 30-2.)</p>	LS	1	\$4,717.51	\$4,717.51	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 31

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
31 -3	<p><b><u>REASON:</u></b></p> <p>This additional support equipment provides backup versatility to ensure the Control Structure 9 (and other sites) can be quickly "powered up" with temporary portable equipment in the event of a power outage.</p>					
31 -4	<p><b><u>DESCRIPTION (Extra/ Add):</u></b></p> <p>Reimburse the Contractor for the premium time portion of the labor cost required to remove the KGV # 5 Stop Log arrangement to allow for resumption of normal flow.</p> <p><b><u>REASON:</u></b></p> <p>The Contractor was requested to continue work under premium time work-hours to complete the removal of the KGV 5 stoplog that normally would have occurred under straight time wage rates. The questionable operational status of Sewage Pump # 2 created concerns over the remaining capacity of the NESPS to handle overnight flows without having isolated Pump 5 available for service if needed. The expedited removal of the KGV 5 stop log eliminated this risk.</p> <p>Attachment PCI 970169</p>	LS	1	\$2,046.11	\$2,046.11	-0-
31 -5	<p><b><u>DESCRIPTION ( Change/ Deduct)</u></b></p> <p>Revise the source of motor and pump vibration transmitter power from panel LP-8 on the Motor Room floor to the Medium Voltage Motor Control Center in the new Electrical Building.</p> <p><b><u>REASON:</u></b></p> <p>This change resulted in the reduction of a significant quantity of conduit and wire resulting in a simplified installation at reduced cost.</p> <p>Attachment: Walsh Construction Co. PCI 970151</p>	LS	1	(\$4,369.07)	-0-	(\$4,369.07)

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 31

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
31 -6	<p><b><u>DESCRIPTION (Extra/ Add):</u></b></p> <p>Revise the conduit and wiring for the Dry Well Sump Pump Pit Duplex Pump arrangement "Dry Well Flooded" alarm.</p> <p><b><u>REASON:</u></b></p> <p>The wiring diagram furnished in GLWA as-built information has been determined to be inaccurate. It appears the Dry Well Flooded float switch is actually wired to the existing Ovation cabinet rather than CP-4 as indicated on the drawings. This arrangement does not provide satisfactory communication. This effort corrects this problem with connectivity to the SCADA system now provided.</p> <p>Attachment: Walsh Construction Co. PCI 970173</p>	LS	1	\$3,131.99	\$3,131.99	-0-
31 -7	<p><b><u>DESCRIPTION (Extra/ Add):</u></b></p> <p>Renew the annual licensure charge for the e-Builder management software.</p> <p><b><u>REASON:</u></b></p> <p>The e-Builder software system provides the administrative record keeping for the Pump and Electrical Upgrades and other OMID DD projects. The annual license term begins on February 28 and extends until the end of February in the following year. This renewal addresses the period from February 28, 2023 through February 27, 2024</p> <p>Attachment: Walsh Construction. Co. PCI 970170</p>	LS	1	\$44,296.56	\$44,296.56	-0-
31 -8	<p><b><u>DESCRIPTION (Changes/ Add):</u></b></p> <p>Address various changes in updated Electrical, Instrumentation, and Control (I&amp;C) drawings resulting from RFI comments.</p>	LS	1	\$5,987.02	\$5,987.02	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 31

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
31 -8	<p><b>REASON:</b></p> <p>Various changes and items of additional effort have resulted from response to RFI comments. This tasks include changes to the HVAC Control Panel location, Lighting Panel revisions, and similar other modifications that result in new Work being performed to replace existing systems, and the various changes that result.</p> <p>Attachment: Walsh Construction Co. PCI 970158</p> <p align="center">*****</p> <p><b>End of Change Order No. 31 Line Items</b></p>					
					Amount Increase	Amount Decrease
		Totals	\$68,103.61	(\$4,369.07)		
		Net Changes (Increase)	\$63,734.54	-----		

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 31

Prepared By: Lawrence T. Gilbert Date: 3-16-2023  
Lawrence T. Gilbert, P.E.  
NTH Consultants, Ltd.

Recommended By: \_\_\_\_\_ Date: \_\_\_\_\_  
John Michalski, P.E.  
Engineer of Design, Applied Science, Inc.

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_  
Joel Brown, P.E.  
Chief Engineer,  
Construction Projects  
Unit, WRC

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_  
Stephen Downing  
Construction and Maintenance Manager, Macomb County Public Works

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_  
Sid Lockhart, P.E.  
Manager of Special Projects, WRC

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Steve Korth, P.E.  
Chief Manager, WRC

All of the Construction Manager's contractual obligations remain in place and are applicable to all work and payments identified herein. No adjustment to contract time or price shall be made for these issues except as set out in this, or by a subsequent related Change Order.

The Construction Manager agrees to do the work described above and agrees to accept Contract time adjustments in full on the basis indicated.

Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_  
Title  
of: Walsh Construction Co. II, Inc.

The Construction Manager is hereby authorized and instructed to do the Work described above in accordance with the terms of the Contract, as amended.

This Change Order No. 31 was approved by the Drainage Board on: \_\_\_\_\_ Date: \_\_\_\_\_



## Attachment No. 1 to Change Order No. Thirty-One

The Engineer has reviewed the items included in this Change Order and confirms that these adjustments to the Contract are reasonable and in accordance with industry standards and the requirements of the Contract.

*Contract Status Summary*  
Change Order No. Thirty-One  
OMID NESPS Pump & Electrical Upgrades Project

*Construction Manager at Risk: Walsh Construction Co. II*

Project Award Date (Pre-Construction Services)	December 16, 2019
Notice to Proceed Date (Construction Phase)	October 23, 2020
Contract Substantial Completion Date (Original)	March 28, 2023
Contract Final Completion Date (Original)	June 22, 2023
Total GMP Contract Value (Including Control Structure 9) (Reconciled for separation of Pre-Construction Costs)	\$ 42,863,185.19
C.O. Values, # 7, 8, 9, 10, 11, 12, 13, 14, 15,16, 17,18, 19, 20, 21,22, 23, 24, 25,26,27, 28, 29, 30 and also including CS-9 C.O. # 1,2,3,4	\$ 4,518,060.47
This Change Order # 31	\$ 63,734.54
<b><i>Adjusted GMP Contract Value, Pump &amp; Electrical Upgrades and CS-9 Projects (Including C.O. # 31)</i></b>	<b>\$ 47,444,980.20</b>



**Agenda Item No. 7**

Construction Estimates

**OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD**  
**Northeast Sewage Pumping Station- Pump and Electrical Upgrades Project**  
**Located in the City of Detroit, Wayne County, Michigan**

**Regular Construction Estimate No. Twenty-Nine**  
**Page One of Two**

February 01, 2023 through February 28, 2023

Department No.:	6010101	Account No.:	731472
Fund No.:	84917	Program No.:	149015
OMID Project No.:	514629	Activity:	FAC

**Construction Manager at Risk:** Vendor # 23191 LI 43331; exp. 12/16/22

Walsh Construction Co. Date of Contract: Dec. 16, 2019

3031 West Grand Boulevard, Suite 640 (Adjusted Final Completion Date: July 28, 2023

Detroit, MI 48202 Contract No. 5977

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Orig. GMP amount for Pump & Elec. Upgrades Project, and including CS-9	\$44,107,745.19
Pre-Construction Payment ( Separate Accounting)	(\$1,244,560.00)
NESPS Pump & Elec. Upgrades Original Contract Budget	\$42,863,185.19
Change Orders, This Estimate: C.O. # 30- Accounting Reconciliation	\$70,196.40
Previous C.O.s: (Numbers 7 through No. 29 and CS-9 # 1 through # 4)	\$4,518,060.47
Adjusted Contract Amount <b>including CS-9 values</b>	\$47,451,442.06
Sub-Total To Date	\$ 35,071,974.23
Less Deductions: None	\$ -
Gross Estimate: (Work in Place - Amount Complete =73.9 %)	\$ 35,071,974.23
Less Amount Reserved (max. 10% of 50% of total CV, <b>including CS-9 value</b> )	\$ 2,372,572.10
Total Amount Allowed To Date:	\$32,699,402.13
Less Previous Estimates:	\$31,970,161.07
Payment Due	\$729,241.06
Reserve Pay to Contractor:	\$0.00
Balance to Finish: \$ 12,379,467.83	Accounting Auditor:
Amount to be Reserved	2,372,572.10
Less Previous Transfer to Reserve	2,372,572.10
Amount of Current Transfer	\$0.00

3-6-23/14:30



**OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD**  
**For Construction of the NI-EA OMID Contract 1 - PCI 4 Rehabilitation**  
**Located in the City of Detroit, Wayne, Michigan**  
**Project ID 1-00000003308**

Regular Construction Estimate No. 24

Period: 2/01/23 through 2/28/23

Department No.:	6010101	Account No.:	731472
Fund No.:	84917	Program No.:	149015
Project No.:	100000003308	Activity:	FAC

Contractor:	Vendor # 29656 Contract # 6323	Date of Contract:	January 21, 2021
Marra Services, Inc.	LI # 44838 exp. 1/20/23	Final Completion Date:	September 9, 2022
700 E. 73 rd. Street		Adj. Final Completion:	May 12, 2023
Cleveland, OH 44103			

Original Construction Contract Amount		\$14,732,510.00
Previous Change Orders: No. One, Two, Three and Four		\$1,217,368.02
Change Orders This Estimate: C.O. # 5, Item 2		\$70,288.59
Total Net Change Orders:		\$1,287,656.61
<b>Adjusted Contract Amount:</b>		<b>\$16,020,166.61</b> ✓
Sub-Total To Date		\$12,327,463.34
Less Deductions: None		\$0.00
Gross Estimate, Work in Place	76.9% Complete ✓	\$12,327,463.34
Less Amount Reserved (Max. at 10% of 50% of adjusted C.V.)		\$801,008.33 ✓
Total Amount Allowed To Date:		\$11,526,455.01
Less Previous Estimates		\$11,072,680.85
Net Payment Request To Be Paid To Contractor:		\$453,774.16 ✓
Reserve Payment to Contractor:		\$0.00
Balance to Finish: \$ 3,692,703.27	Accounting Auditor:	
Amount to be Reserved from Above		\$801,008.33
Less Previous Transfers To Reserve:		\$797,493.90
Amount of Current Transfer		\$3,514.43 ✓

Prepared by: Lawrence T. Gilbert  
 Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.

Date: 3-26-2023

Recommended by: \_\_\_\_\_  
 Saju Sachidanandan, P. E.; NTH Consultants Ltd.

Date: \_\_\_\_\_

Recommended by: \_\_\_\_\_  
 Joel Brown, P.E. Oakland County WRC

Date: \_\_\_\_\_

Recommended by: \_\_\_\_\_  
 Stephen Downing; Macomb County OPWC

Date: \_\_\_\_\_

Approved for Payment by: \_\_\_\_\_  
 Sid Lockhart, P.E.; Special Projects Manager, Oakland County WRC

Date: \_\_\_\_\_

## **Agenda Item No. 8**

Report/Update – Status of OMID  
Project, Segments 1 through 4, NESPS,  
NI-EA

# Oakland Macomb Interceptor Drain (OMID) Repairs

## Project Progress Update

Prepared by:

F. Klingler, P.E., B. Kelly, P.E., FK Engineering Assoc.

S. Sachidanandan, P.E., L. Gilbert, P.E., NTH Consultants, Ltd.

J. Michalski, P.E., Applied Science, Inc.; T. Moore, Metco Services, Inc.

J. Matteo, P.E., Jacobs Consultants Inc.

### March 15, 2023 OMIDDD Board Meeting

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The following provides a status update as of the writing of this report (March 8, 2023) for the work completed for the Oakland-Macomb Interceptor Drain Repair Program (SRF Segments 1-4; Contract 7 PCI-4 repairs; Maintenance Repairs in PCI-5 through PCI-11A; Control Structure Modifications; NIEA Repairs; NESPS Upgrades; Odor/ Corrosion Control System, and other related work):

### SRF Segment 1 Status:

#### Contracts 1&2: Complete

#### System-wide Odor/Corrosion Study: Complete

#### Odor and Corrosion Control Design

- Project Budget: \$963,222.90
- Total Spent (approximate, through January 2023): \$485,788.00
- Effort is currently on time.

#### Status of Major Project Tasks:

- Task 1 (field investigations and modeling) is complete.
- Jacobs is nearing completion of the (Task 2) Basis of Design Report, which will set forth the pertinent information for the OMIDDD, MIDDD, and Jacobs team to proceed to the next phase of detailed design.
- Jacobs has established the required footprint of the replica house that will contain the odor control equipment at the Meter ST-S-3 site at Dodge Park Road/Sorrento Boulevard in Sterling Heights (concept presented at the January 2023 Board meeting). Jacobs has drafted the rear yard setback variance request for OMIDDD/MIDDD review for this facility, which will be submitted in March to the City of Sterling Heights Zoning Board of Appeals. The request will include all necessary property information, a description of the system, as well as preliminary site plan, landscaping, and structural/architectural drawings.
- Though no variance is required for the odor control system at Meter ST-S-1/CS-8 at Utica Road near Dodge Park Road in Sterling Heights, similar drawings will be provided to Sterling Heights for review.
- On February 16, the Jacobs design team, OMIDDD, and MIDDD met with City of Sterling Heights to review preliminary designs at each odor control facility site. The design team received constructive feedback from City of Sterling Heights, which resulted in various action items and guidance for proceeding with the design. In general, sites at ST-S-1/CS-8 and ST-S-3 received sufficient feedback to continue with detailed design. Jacobs will be engaging the City of Sterling Heights Fire Marshall and building officials in the next phase of design – particularly for the replica house structure at ST-S-3 – to ensure all code requirements are met. Locating the CS-6/CS-12 odor /corrosion and ventilation

## March 15, 2023 OMIDDD Board Meeting

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systems on the Sterling Heights-owned property west of the CS-12 construction site is still under consideration. The Sterling Heights-owned property would avoid potential conflicts with the overhead ITC lines, providing a safer environment to perform maintenance on the system. Upon request from the February 16 meeting attendees, Jacobs and OMIDDD will engage the Sterling Heights Parks Department on the advantages and disadvantages of both potential sites.

### **SRF Segment 2 Status:**

**Contract 3 (Base Contract & C.O. 2E-2J): Complete**

### **SRF Segment 3 Status:**

**Contract 4: Complete**

### **SRF Segment 4 Status:**

**Contract 5A/5B: Complete**

- City of Utica Use Agreement for access paths is pending; awaiting final authorization.

**Contract 6: Complete**

**Contract 7 (NIEA 110 feet of Emergency Rehab): Complete**

### **NESPS Odor/Corrosion Control System (No Segment or Contract No.):**

**Construction Complete**

- Warranty period through December 2022. Final warranty inspection/walk-through to be scheduled in spring 2023.

### **NESPS & OMID Maintenance, Operations & Upgrades Status:**

**Status of Emergency Contingency Plan for pumping during total power loss or other catastrophic system failure:**

- Mersino Dewatering is under contract for standby emergency bypass pumping.
- The OMIDDD Project Team has finalized design for keeping the 15 Mile Road bypass pumping arrangement (initially constructed in summer 2021) intact and buried below grade, pending final agreement with ITC and other easement owners. Currently under review by ITC, and coordinating with other easement holders.
- Remaining items in the final emergency plan include punch-list and optimization steps for electrification, modifications at the 15 Mile Road Site, and overall optimization of the Emergency Plan per above. Final plan document will be revised after final installation of the emergency pumping conveyance conduit. Currently, the Team is considering re-naming the

# March 15, 2023 OMIDDD Board Meeting

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project "Contingency Plan for PCI-7 Emergency Flow Management" to better describe the tentative nature of the project.

## **Additional work being performed under Metco Maintenance Contract for NESPS:**

- Flow control operations related to OMID/MID/NIEA sewer repair and upgrade projects have been periodically postponed due to wet weather and related elevated flows.
- Mechanical and Electrical corrective/preventative maintenance schedules continue.
- Coordination between OMIDDD, GLWA, MIDDD, NESPS, and Pump/Electrical Upgrade Project is ongoing and has not impacted station operations or ability to meet demand.
- The wet well elevator remains disabled. A submittal regarding restoration is under review. Workshop held February 17, 2023. Final completion is projected for 2024.
- Next quarterly wet well sediment inspection and bar screen cleaning scheduled for the week of April 10, 2023.
- New level sensors (radar technology) installed on south side of the wet well. Additionally, a new pressure transducer and stilling well has been installed. This will provide an expanded range of measurement in the wet well. Both instruments are in service and continue to perform well. North side installations scheduled for April 14.
- A NESPS Controls Workshop with the OMID team and GLWA is an ongoing process, designed around new operational parameters and control strategies.
- Quarterly OMIDD-GLWA Coordination Meeting scheduled March 21, 2023. The purpose of these meetings is to ensure that all parties are up to date on system status and project schedules. There were no unusual issues reported.
- NESPS rail crane inspected March 6, 2023 by Kone Cranes. Report under review.

## **Overall NESPS Station Performance Report by METCO:**

- Mechanical: No changes from previous report. Sanitary Pumps #2 #4, #5, and #6 ready for duty. Total pump capacity equals 500-cfs. The wet well dewatering pump is also ready for duty.
- Sanitary #2 and Sanitary #4 continue to share primary duty. Pumps #5 and Pump #6 share backup roles. This strategy has proven results in meeting dry and wet weather demands.
- The existing switchgear is currently fed by existing Transformer #4 (T4). The switchgear in the NEW electrical building is also fed by existing Transformer #4 (T4). New (T3) is currently out of service to allow DTE to perform system maintenance. Shutdown duration March 3<sup>rd</sup> thru April 3<sup>rd</sup>. Generator back-up is available to feed power to P4, P5 and P6 in the existing substation.
- Dry well submersible sump pump #2 out for repair, with scheduled April 5<sup>th</sup> return. An electrical short was likely caused by moisture intrusion.
- Specific data logging software has been installed within the Sanitary Pump #2 VFD drive PLC. This software was instrumental in detecting the VFD faults experienced November 14, 2022, which disabled the pump.
- Rotor integrated the existing Eaton Power Expert (Quality Power Monitoring Meter) located on the VFD Sanitary Pump #4 switchgear into the OMID SCADA system. Occasional faults, voltage sags, spikes were reported. Incoming power data is collected daily with the data kept on file.
- CMMS: NEXGEN asset management in use. Monthly status meetings are being held with OMID. Contractors are fulfilling their requirements with no outstanding issues to report.
- HVAC: Gas detection in use. Rounds are conducted daily. Unit filters restocked and changed as required.
- Overall General Housekeeping tasks in order. Minor maintenance activities have all been addressed in a timely manner.



# March 15, 2023 OMIDDD Board Meeting

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## Control Structures Performance Report (CS-5, CS-6, CS-7, CS-8):

- Daily flow control operations support MID/OMID/NIEA repair and improvement projects. (Weather permitting)
- All LOTO protocols are in-place with no major issues to report.
- System-wide communications are good.
- CS-6 gate has been restored and is currently operational with limited abilities. A limit switch and position indicator must be installed to fully complete restoration. HESCO has ordered and is still waiting on these parts. (Still waiting on parts)
- CS-7 in stand-by mode ready for service.
- CS-8 in stand-by mode ready for service.
- CS-5 in stand-by mode ready for service.
- CS-9 in stand-by mode ready for service.
- Routine daily rounds and inspections made with no major maintenance issues to report.

## Other System Operation Issues

- O&M Manual is currently being revised to include new structures, recently modified structures, new monitoring equipment, and recent inspection and repair status.
- EGLE has informally agreed to consent to use of all flow control structures for long term flow control. Request for formal consent is promised but not yet received.

## OMID Control Structure Upgrades Status:

- ASI is now contracted for design of major upgrades to control structures that considers long-term operability.
- Initial inspections and planning complete.
- Basis of Design complete and under review.
- Design projected to be complete in May 2023.

## OMID System 3-Year Spot Repairs Status: Complete; final as-builts under review

## OMID System 6-Year Inspection Status:

- Tunnel reach inspections (95 total) were completed on February 25, 2023. Coordination is underway to complete three remaining manhole inspections (out of 95).

## NIEA Repairs (Design/Construction)

### Contract 1 (PCI-4 Rehabilitation): In Construction

**Amt Invoiced:** Construction cost to date is \$12,327,463.34 , representing 76.9 % of the adjusted Contract value.

**Schedule Status:** Current adjusted Substantial Completion date was January 8,2023, now adjusted by Change Order No. 5 to April 12, 2023. Contractor is operating approximately 22 weeks behind the adjusted schedule but anticipates making up at least some of this time with productive lining and grouting work.

# March 15, 2023 OMIDDD Board Meeting

## Contract 1 (PCI-4 Rehabilitation) Construction Status:

- 100% of the Channeline and Rockhard SCP segments are now on site. In addition, 100% of the QuakeWrap lining pipe is complete at the Hastings, MI manufacturing facility, with four sections now on site. MDOT Spring Transportation Permits are not available beginning Feb. 13, 2023 and this restriction will delay the receipt of the remaining Quakewrap segments on site depending on current progress requirements. At this time, the Quakewrap delivery delay will not impact the overall project completion schedule.
- Approximately 1,000 linear feet of lining has been installed out of a contract total of 1,120 feet (approx. 702 feet fully grouted in place). The cement supplier's grout shortage has generally subsided and the full-grouting operation has resumed; however, the supplier has yet to confirm a continuing availability for future requirements.
- Geotechnical monitoring of construction activities at the access shaft location indicates continuing stable conditions.



Tents for Winter Assembly of Channeline Segments (top right and left, bottom right)



Lining Efforts in January 2023

# March 15, 2023 OMIDDD Board Meeting

## Contract 2 (PCI-18/19 Rehab): Design Complete, Bidding Complete

**Amt Invoiced:** \$2,333,548 out of currently projected study/design budget of \$2,400,570.  
**Schedule Status:** Contract 2: "Issued for Bid" work complete; Bid documents are out; Bids received on March 1, 2023.

### Contract 2 (PCI -18/19 Rehabilitation) Design Status:

- NI-EA OMID Contract No. 2 PCI-18 & 19 Rehabilitation Issued for Bid contract set complete and has been issued to prospective bidders.
- Bids received on March 1, 2023. Four (4) contractors submitted proposals for the project - Z Contractors, Inc., Ric-Man Construction, Inc., LGC Global, and L D' Agostini & Sons.
- Base Bid "As-read" low bidder – Z Contractors, Inc (\$12,596,800)
- Bid tabulation and review are currently underway
- Flow control measures necessary to complete Contract 2 work may impact a downstream GLWA project (DB-226), although it appears at this time that both project schedules align.
- Working with GLWA to develop cost sharing agreement; Draft agreement is being negotiated.
- The **draft** line item schedule and budgets for OMID NIEA Contracts 1 and 2 are summarized:

Work Item/ Milestone	Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
Lining Study Final Report	\$126,744		10/30/2019
90%, 100% Design Package			3/20/2020 and 4/28/2020 (Contract 1) 4/16/2021 and 10/1/22 (Contract 2)
Issued for Bid			6/10/2020 (Contract 1) 11/4/22 (Contract 2)
Bid Opening			9/30/2020 (Contract 1) 3/1/23(Contract 2)
Contract Award and NTP			12/16/2020 and 1/04/2021 (Contract 1) 6/20/23 and 7/20/23 (Contract 2)
Subtotal - Design	\$2,400,570		
Substantial Completion of Construction	\$3,500,000	\$30,000,000	456 cal. days for C-2A plus 210 cal days for C-2B. (Contract 1, projected). Contract 2A& B, est. 10/28/24 and 6/25/25.

## NESPS Pump and Electrical Upgrades Project

**Budget Status:** \$1,280,139 billed out of current Design Budget of \$1,382,430; \$968,018 out of the current CCA Budget of \$2,443,262. The total construction amount invoiced as of February 28, 2023, is \$35,071,974.23 out of \$47,451,442.16 ( including the now completed and operational Control Structure 9 Bulkhead Gate facility and adjusted for stored material inclusion in major work activities), representing 74% of the Pump & Electrical Upgrades Project.

**Schedule Status:** Work is currently delayed due to supply chain issues and electrical issues that occurred in the motor control cabinetry on Aug 23, 2022 as discussed in prior Reports. Contractor is working on an enhanced schedule to make up time but will be unable to meet the scheduled completion date, with an estimated delay of 15.7 months. Negotiations ongoing.

## March 15, 2023 OMIDDD Board Meeting

The following Design Team and Construction Services Effort is active:

- Construction Phase services (RFIs, Submittals) are ongoing, and the engineering team is reviewing and responding.
- The new Sewage Pump #1 and #3 and Motor are substantially installed. In-place testing and replacement of incompatible motor exciter components is incomplete, due to the event of August 23, 2023 effectively delaying final re-testing and acceptance.
- The concrete encased underground conduit for the new Fiber Optics communication line is complete from the NESPS to the GLWA Chemical Building termination. Work on the cable installation and tie-ins is near complete and is undergoing testing.
- A review of alternative energy saving methods and pump sequence remains ongoing, incorporating GLWA SCC comments.
- Chemical injection to seal groundwater infiltration at the existing discharge pipe wall penetrations is complete; Current observations suggest that the infiltration has been arrested successfully.
- Small diameter conduit runs and wiring are being installed in the existing NESPS building with favorable progress, now approaching substantial completion for this activity.
- Steel discharge piping for Pump 6 is now at the Toledo, Ohio facility for sand blast preparation and painting, with several additional segments already received on site. Coating is now complete on Pump 6 piping and delivery to jobsite is expected the week of 3/6/23.
- The August 23, 2022 Arc-Flash incident remains under investigation. The Construction Manager has filed a claim on the OCIP Builder's Risk insurance coverage for this event.
- Schedule adjustments are currently under discussion. The Contractor has revised the sequence of rehabilitation for the existing Pump Knife Gate Valves, removed KGV # 2, installed a temporary "spool piece filler" and, sent the valve out for rehab. Current reports indicate KGV #2 is in better condition than the KGV # 1, and refurbishment is proceeding ahead of schedule.
- Work on the alternate discharge piping installation for the Dewatering Pump is progressing well and awaiting delivery of 12" dia. knife gate valves for completion.

The **draft** line item schedule and budget are summarized:

Work Item/ Milestone	Design/CCA Budget	Const Budget	Estimated Delivery Date
2 Final Basis of Design			5/31/2019
7 MDEQ Submittal (Part 41 Permit)			4/8/2020 (initial pkg)
8 90% Design Submittal			6/30/20
9 Final Package Development			8/14/2020
Subtotal	\$3,826,000	\$44,100,000	
10 Substantial Completion	\$2,500,000 (est.)	\$44,100,000 (est.)	9/22/2023 (late)
11 Final Completion			12/21/2023 (late)



# March 15, 2023 OMIDDD Board Meeting



**NESPS Refurbishment  
Project Location**



**Electrical subcontractor pulling fiber optic cable to NEWTP  
Chemical Building**



**Shrink-wrapping of KGV2 for weather protection**

# March 15, 2023 OMIDDD Board Meeting

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Painting Pump #4



Electrical work on sixth floor



PM Technologies conducting over-stress test for electrical generators



Installation of 12-inch dewatering bypass on fourth floor

## CS-9 Gate Installation Complete (as-builts pending)

## OMID Improvements at CS-6 Site

The Contractor has been removing the TERS around the finished CS-12 structure and assembling reinforcing steel for roof panels. The electrical Subcontractor has been making gradual progress on conduits and other electrical components. Expect to begin cleaning and lining efforts this summer, including OMIDDD section between CS-4 and CS-12.

# November 9, 2022 OMIDDD Board Meeting

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## Summary of OMID Design and Construction Status:

Work In Construction Since 2009							
Seg. No	Contract No. (Description)	Contractor	Const. Comp?	As-Builts Final?	Balancing Change Order?	Contractor Closed Out?	Easements Settled?
1	Contract 1 (CS-9, 5, 3)	Ric-Man	Y	Y	Y	Y	Y
1	Contract 2 (CS-6, 7, 8)	Ric-Man	Y	Y	Y	Y	Y
2	Contract 3-2E (Gatehouse)	IWPC (Weiss)	Y	Y	Y	Y	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	IWPC	Y	Y	Y	Y	Y
3	Contract 4 (Lining PCI-5 thru 8)	Jay Dee Cont.	Y	Y	Y	Y	Y
4	Contract 5 (Lining PCI-9, 10A/B)	Lanzo	Y	Y	Y	Y	N
4	Contract 6 (Lining PCI-11A)	Lanzo	Y	Y	Y	Y	Y
N/A	Contract 7 (Lining 110' of NIEA)	IWPC	Y	Y	Y	Y	N/A
N/A	Odor/Corrosion Control System	CSM	Y	Y	Y	Y	N/A
N/A	Control Structure Modifications	CSM/Hesco/MCE	Y/Y/Y	Y/Y/N	Y/Y/N	Y/Y/N	N/A
N/A	OMID Maintenance Repairs	Doetsch	Y	N	N	N	N/A
N/A	CS-9 Gate Modifications	Walsh as CMR	Y	N	N	N	Y
N/A	NESPS Pump & Electrical Upgrade	ASI;Walsh as CMAR	N	N	N	N	Y
N/A	NIEA-OMIDDD Contract 1 (PCI-4)	Marra	N	N	N	N	N
N/A	NIEA-OMIDDD Cont 2 (PCI-18/19)	Z Cont. (tentative)	N	N	N	N	N

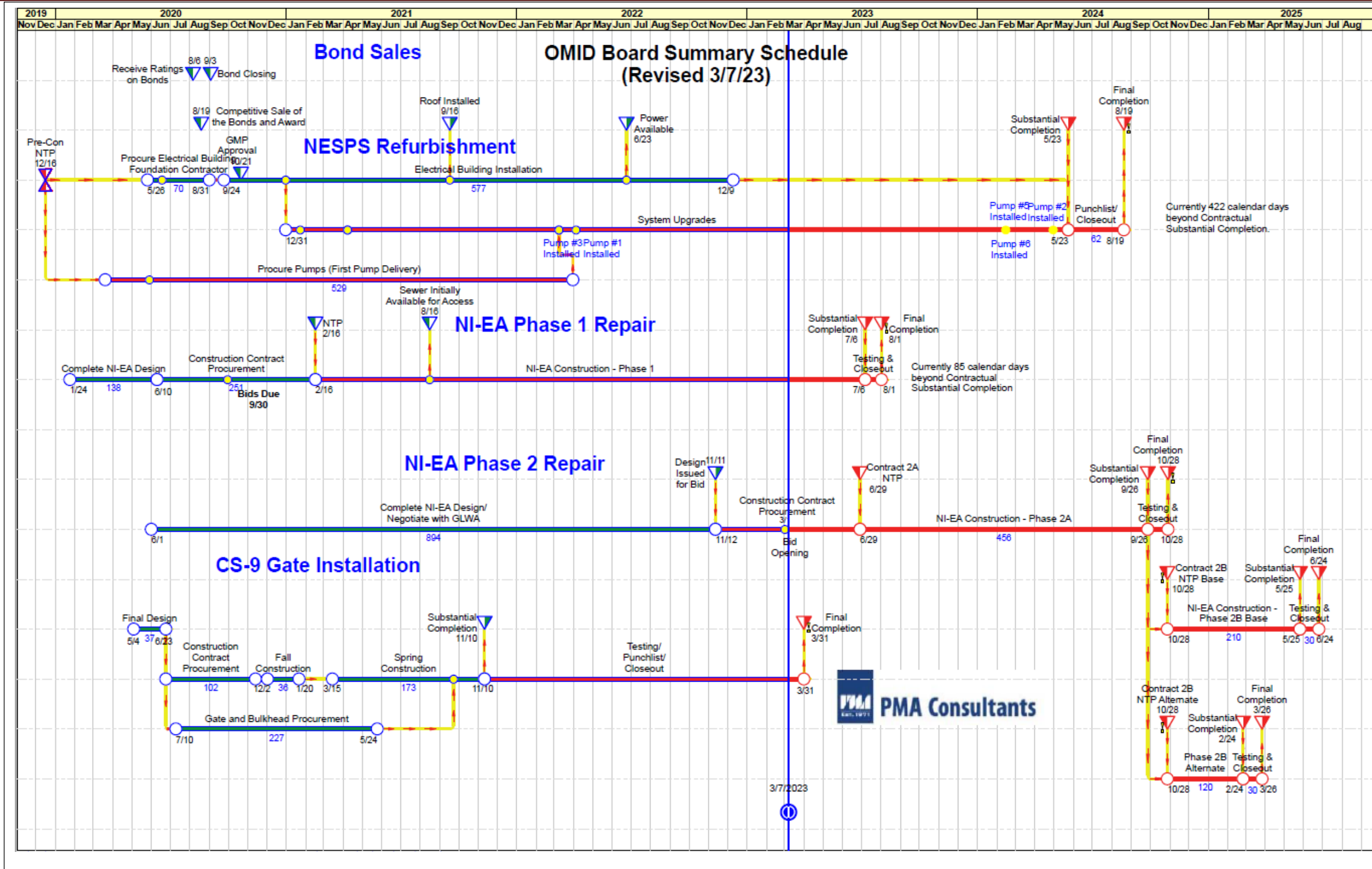
Work Currently in Design/Study/Engineering		
Description	Design Consultant	Status
System-wide Odor/Corrosion Design	Jacobs	Study Complete, Design Ongoing
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing
NIEA-OMIDDD Contract 2 (PCI-18/19)	NTH	Design Complete; currently in bid-phase; pursuing cost
Emergency Pumping Plan	ASI/NTH/FKE	Draft Plan to be modified following ITC bypass pumping modifications







# March 15, 2023 OMIDDD Board Meeting



OMID Project Schedule Summary

# March 15, 2023 OMIDDD Board Meeting



## MID/OMID Construction Schedule

Project	Work Location	Owner	Lead Engineer	Contractor	2023												2024												MID/OMID Control Devices Required to Store Flow										Concurrent Work Notes							
					M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	CS-2	CS-3	CS-5	CS-6	CS-6 PS	CS-7	CS-8	CS-9	CS-12	CPS										
MID Grouting Garfield Interceptor	Lakeshore Interceptor (LSI)	MID	AEW	Doetsch																															-	-	-	-	-	-	-	-	n/a	N	Work is Random - If other work requires CS-3 closure, then LSI work will be concurrent. CPS can not be used for storage. Schedule duration is TBD based on grout takes. Present work in in the Garfield.	
MID Inspection	Routine Inspection of MID Manholes & Interceptors	MID	Fishbeck	Doetsch																															-	-	-	-	-	-	-	-	n/a	-	Work may require brief flow control to inspect certain reaches. Work will be coordinated around active construction.	
Segment 6 Lining	15 Mile upstream of Garfield (15 Mile Interceptor)	MID	FKE	Ric-Man																															-	-	-	-	-	-	-	-	-	Y	Flow control on pause but upcoming. May work concurrent with Segment 5 or NIEA rehabilitation. Schedule is estimated.	
	15 Mile upstream of Garfield & between CS-2/CS-3 (Romeo Arm)	MID	FKE	Ric-Man																															Y	Y	N	-	-	-	-	-	Y	Y	May work concurrent with Segment 5 or NIEA rehabilitation. Flow control conditions at the CS gates is similar with the exception of utilizing CS-2. Schedule is estimated.	
Segment 5 Lining*	15 Mile between ITC Corridor & Eberlein	MID	FKE	ORC																															-	Y	N	Y	-	Y	Y	-	Y	H	If work is concurrent with NIEA rehabilitation; CS-9 is required. Flow control dates may change depending on sediment removal means and methods. Current projected finish is 8 months late.	
NIEA Rehabilitation (Downstream of NESPS)	PCI-4 Shaft & Lining (Contract 1)	OMID	NTH	MARRA																															-	Y	N	Y	-	Y	Y	Y	-	H	If work is concurrent with Segments 5 & 6 Lining; CS-9 is required.	
	PCI-18/19 Flow Control Structures (Contract 2A)	OMID	NTH	TBD																															-	Y	N	Y	-	Y	Y	Y	-	H	Shaft construction. MID/OMID flow control may be required depending on 7-Mile Relief Inter-Connection and PC-663 Gate status. Coordination with GLWA and downstream system when flow is diverted to 7 Mile Relief.	
	PCI-18/19 Spot Repairs and Linings (Contract 2B)	OMID	NTH	TBD																															-	-	-	-	-	-	-	-	-	-	PC-663 Gate closure will divert flow to 7 Mile Relief Sewer. Coordination with GLWA and downstream system when flow is diverted to 7 Mile Relief. NESPS should operate normally to pass DWF rates. (10/2024 to 5/2025)	
OMID CCTV Inspection	Throughout System	OMID	NTH	Doetsch																															-	Y	Y	Y	-	Y	Y	-	n/a	H	Present work is in upstream manholes so limited flow control necessary. Flow control will be required within certain reaches to facilitate.	
CS-9 Gate Level Sensor Work	CS-9	OMID	NTH	Walsh																															-	Y	Y	Y	-	Y	Y	Y	n/a	H	Level Sensor replacement	
NESPS Improvements	NESPS Pump Replacement	OMID	ASI	Walsh																															-	Y	-	Y	-	Y	Y	Y	-	H	Will require brief flow control for pump installation, gate installation, and electrical work.	
DB-226 DRI Repairs (Reach 2A - 3B)	GLWA - DRI	GLWA	FKE	Jay Dee																															-	-	-	-	-	-	-	-	-	-	Can be effected by flows rerouted from the NIEA to the DRI. Project status changes in late 2024 following completion of Reach 3B after which flow control for NIEA C2B is not impacted.	
Rigid Seal Study	NESPS Discharge Chamber	OMID	NTH	TBD																															-	Y	Y	Y	-	Y	Y	Y	n/a	H	Schedule to be confirmed. Requires 2-3 Days	
Inspection and Repair of Discharge Chamber Riser	NESPS Discharge Chamber	OMID	NTH	TBD																															-	Y	Y	Y	-	Y	Y	Y	n/a	H	Schedule to be confirmed.	
Flow Control Structure Rehabilitation	CS-5, CS-6, CS-7, CS-8	OMID	ASI	TBD																															N	N	-	-	-	-	-	-	N	N	N	Work will take CS Structures out of Service during Gate and Operator modifications.
PSPS / COSDS Work (PSPS Shutdown)	PSPS	WRC	n/a	n/a																															-	-	-	-	-	-	-	-	-	-	-	Diversion to PSPS is 5MGD (May increase to 10MGD this Fall). Scheduled shut down of PSPS in September; no flow diversion to Pontiac WWTP (CRWRRF). Will significantly impact storage capabilities on the Oakland Arm CS gates.

Table updated on 3/1/2023. Estimates to be updated as necessary.

- \* Flow control will be required for sewer cleaning, currently estimated in 2022. Flow control requirements are TBD based on contractor means & methods, not reflected in "Control Devices Required to Store Flow" section.
- \* Flow control will be required for sewer lining (Schedule TBD). Flow control CS requirements are defined in the "Control Devices Required to Store Flow" section.
- PSPS and ELPS operations can significantly impact storage times upstream of CS-6, 7 & 8 and subsequently downstream control structures. Coordination & alerting for ELPS, PSPS, WRC Meters 1222/1223 & 1000 required.

- Y = Required to store
- N = Required to not store
- H = Helpful to extend work times. *If available when not required for concurrent work.*
- = Irrelevant

-  Estimated Project Window
-  Flow Control Required
-  Flow Control May Be Required

### Summary of OMID Flow Control Requirements for Ongoing and Future Projects

**Agenda Item No. 9**

Financial Reports – General Financial Report and  
Status of State Revolving Fund Financing and  
Other Financing

YTD Trial Balance Fund: 84917 Oakland Macomb InterceptorSeg5 As of Fiscal Period: Month 5, 2023		YTD Balance No Project	OMID Segment 5 100000003252	OMID NI-EA CONSTRUCTION 100000003308	NESPS MECH-ELEC CONSTRUCTION 100000003309	YTD Balance
100100	Cash - Operating	0.00	1,738,393.06	10,614,894.40	20,273,551.54	32,626,839.00
101500	Undeposited Cash					0.00
104100	Accrued Interest on Investment		(129,611.64)			(129,611.64)
143100	PrepaidExpenses			52,083.32	51,255.00	103,338.32
151000	Restricted Cash	0.00				0.00
	<b>ASSETS</b>	<b>0.00</b>	<b>1,608,781.42</b>	<b>10,666,977.72</b>	<b>20,324,806.54</b>	<b>32,600,565.68</b>
201210	Vouchers Payable AP Cont					0.00
222300	Unearned Revenues	0.00	576,414.65	(2,407,672.79)	(4,956,470.90)	(6,787,729.04)
230852	Accounts Payable					0.00
272600	Unavailable Revenue - Other	0.00				0.00
	<b>LIABILITIES</b>	<b>0.00</b>	<b>576,414.65</b>	<b>(2,407,672.79)</b>	<b>(4,956,470.90)</b>	<b>(6,787,729.04)</b>
605000	Special Assessments Revenue					0.00
655000	Income From Investments		(1,570,416.28)			(1,570,416.28)
670000	Other Revenues					0.00
	<b>REVENUES</b>	<b>0.00</b>	<b>(1,570,416.28)</b>	<b>0.00</b>	<b>0.00</b>	<b>(1,570,416.28)</b>
730000	Contractual Services			1,084,932.82	1,355,510.89	2,440,443.71
770000	Internal Support Expenditures			24,854.58	44,460.35	69,314.93
	<b>EXPENSES</b>	<b>0.00</b>	<b>0.00</b>	<b>1,109,787.40</b>	<b>1,399,971.24</b>	<b>2,509,758.64</b>
381315	FB Restricted Debt	0.00	(47,288,433.00)			(47,288,433.00)
382100	FB Committed for Capital Proj	0.00	46,673,653.21	(9,369,092.33)	(16,768,306.88)	20,536,254.00
	<b>Fund Balance</b>	<b>0.00</b>	<b>(614,779.79)</b>	<b>(9,369,092.33)</b>	<b>(16,768,306.88)</b>	<b>(26,752,179.00)</b>
		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>(0.00)</b>	<b>0.00</b>

Cash as of 02/28/2023 \$ 32,626,839.00

Invoices/Reimbursements for NIEA Construction on Current Agenda impacting Cash Balance (74,904.95)

Invoices/Reimbursements for NESPS Mech / Electrical Construction on Current Agenda impacting Cash Balance (88,063.04)

Total Net Cash Balance \$ 32,463,871.01

**OCM Project Work In Progress**

**Company** Oakland County  
**Projects and Project Hierarchies** PRJ-13308 OMID NI-EA  
**Budget Structure** Project Task  
**Period** FY2023 - Feb

Project	Final Budget	Actuals MTD	Commitments	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	28,395,600.00	16,466.44	747,114.11	1,109,787.40	1,856,901.51	17,728,622.28	10,666,977.72
1 > Administration	584,000.00	0.00	0.00	0.00	0.00	175,749.40	408,250.60
1 > Contingency	2,581,000.00	0.00	0.00	0.00	0.00	0.00	2,581,000.00
1 > Engineering	478,000.00	5,428.66	0.00	23,922.91	23,922.91	147,858.50	330,141.50
1 > Engineering Consultants	4,913,000.00	0.00	19,332.51	694,018.88	713,351.39	3,765,071.29	1,147,928.71
1 > Facility Acquisition	17,983,600.00	0.00	727,781.60	343,781.60	1,071,563.20	13,309,019.95	4,674,580.05
1 > Inspection	260,000.00	0.00	0.00	0.00	0.00	0.00	260,000.00
1 > Legal and Financial	1,259,000.00	0.00	0.00	(4,951.00)	(4,951.00)	119,272.50	1,139,727.50
1 > Right of Way	265,000.00	621.11	0.00	931.67	931.67	77,427.69	187,572.31
1 > Standard	40,000.00	10,416.67	0.00	52,083.34	52,083.34	134,222.95	(94,222.95)
1 > Survey	32,000.00	0.00	0.00	0.00	0.00	0.00	32,000.00
Project Revenues	0.00	0.00	0.00	0.00	0.00	25,987,927.21	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	0.00	4,022,827.56	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	0.00	21,965,099.65	
<b>Revenue Over/ (Under) Expenses</b>						<b>8,259,304.93</b>	

**OCM Project Work In Progress**

**Company** Oakland County  
**Projects and Project Hierarchies** PRJ-13309 NESPS MECH-ELEC  
**Budget Structure** Project Task  
**Period** FY2023 - Feb

<b>Project</b>	<b>Final Budget</b>	<b>Actuals MTD</b>	<b>Commitments</b>	<b>Actuals YTD</b>	<b>Total Spend</b>	<b>Actuals LTD</b>	<b>Variance</b>
<b>Project Expenses</b>	<b>54,086,000.00</b>	<b>10,443.00</b>	<b>760,500.83</b>	<b>1,399,971.24</b>	<b>2,160,472.07</b>	<b>33,761,193.46</b>	<b>20,324,806.54</b>
1 > Administration	620,000.00	0.00	0.00	(51,255.00)	(51,255.00)	44,200.00	575,800.00
1 > Contingency	4,917,000.00	0.00	0.00	0.00	0.00	0.00	4,917,000.00
1 > Engineering	446,000.00	6,594.04	0.00	29,950.59	29,950.59	221,208.99	224,791.01
1 > Engineering Consultants	3,987,000.00	0.00	0.00	(211,096.49)	(211,096.49)	2,419,715.26	1,567,284.74
1 > Facility Acquisition	40,857,000.00	0.00	760,500.83	1,552,856.04	2,313,356.87	29,830,921.25	11,026,078.75
1 > Inspection	285,000.00	3,848.96	0.00	14,509.76	14,509.76	355,817.21	(70,817.21)
1 > Legal and Financial	2,417,000.00	0.00	0.00	0.00	0.00	179,800.00	2,237,200.00
1 > Right of Way	393,000.00	0.00	0.00	0.00	0.00	0.00	393,000.00
1 > Standard	130,000.00	0.00	0.00	65,006.34	65,006.34	709,530.75	(579,530.75)
1 > Survey	34,000.00	0.00	0.00	0.00	0.00	0.00	34,000.00
<b>Project Revenues</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>49,129,529.10</b>	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	0.00	7,291,907.09	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	0.00	41,837,622.01	
<b>Revenue Over/ (Under) Expenses</b>						<b>15,368,335.64</b>	

**OCM Project Work In Progress**

**Company** Oakland County  
**Projects and Project Hierarchies** PRJ-13252 OMID Segment 5  
**Budget Structure** Project Task  
**Period** FY2023 - Feb

<b>Project</b>	<b>Final Budget</b>	<b>Actuals MTD</b>	<b>Actuals YTD</b>	<b>Total Spend</b>	<b>Actuals LTD</b>
<b>Project Expenses</b>	0.00	0.00	0.00	0.00	757,136.57
1 > Administration	0.00	0.00	0.00	0.00	242,201.57
1 > Legal and Financial	0.00	0.00	0.00	0.00	514,935.00
1 > Standard	0.00	0.00	0.00	0.00	0.00
<b>Project Revenues</b>	0.00	36,132.87	1,570,416.28	(1,570,416.28)	2,942,332.64
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	894,060.05
RC655077 - Accrued Interest Adjustments	0.00	37,196.15	101,021.69	(101,021.69)	(42,887.60)
RC655385 - Income from Investments	0.00	(1,063.28)	77,767.98	(77,767.98)	1,005,072.86
RC655462 - Increase Market Value Investment	0.00	0.00	1,391,626.61	(1,391,626.61)	1,084.24
RC670513 - Prior Years Revenue	0.00	0.00	0.00	0.00	0.00
RC697219 - Premiums on Bonds Sold	0.00	0.00	0.00	0.00	7,672,724.75
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	(6,587,721.66)
<b>Revenue Over/ (Under) Expenses</b>					<b>2,185,196.07</b>

Oakland County - Water Resources Commissioner's Office  
Fund Equity: Schedule of Reserves and Dedicated Funds  
As of Date: February 28, 2023

Fund	Description	Major Maintenance	Emergency Maintenance Reserve	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	OMIDD Maintenance Fund	3,418,230.70	3,294,461.61	2,458,486.31	8,140,031.06		17,311,209.68
84917	OMIDD Seg 5						
	- Project 1-3252 Interceptor Seg 5					2,185,196.07	
	- Project 1-3308 NI - EA Construction					8,259,304.93	
	- Project 1-3309 NESPS Construction					<u>15,368,335.64</u>	<u>25,812,836.64</u>
Total Equity in Maintenance and Construction Funds							<u><u>43,124,046.32</u></u>

**NOTE: This report presents pre-closing figures and as such are subject to change**



**OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS**

OMIDD Meeting Date 03/15/2023

		84917 1-3308	84917 1-3309	82912	
<b>Payable To</b>	<b>Invoice #</b>	<b>Segment 5 NIEA Construction</b>	<b>Segment 5 NESPS Mech / Electric Construction</b>	<b>Operations &amp; Maintenance</b>	<b>Total</b>
Oakland County *	WRC Labor/Fringes/Non-direct Labor (08/27/22 - 09/23/22)	5,843.61	10,095.46		\$15,939.07
Oakland County *	WRC Equipment (08/27/22 - 09/23/22)	206.16	347.54		\$553.70
Applied Science, Inc	Invoice # 47 A (ASI Inv. #8358) Services 1/1/23 to 1/28/23		17,523.99		\$17,523.99
Applied Science, Inc	Invoice # 48 (ASI Inv. #8381) Services 1/29/23 to 2/25/23		65,823.31	6,041.00	\$71,864.31
Applied Science, Inc	Invoice # 48 A (ASI Inv. #8381) Services 1/29/23 to 2/25/23		4,715.74		\$4,715.74
HESCO	Invoice # 2314175 OMIDD Flow Control Structures 10/21/2022			5,597.50	\$5,597.50
HESCO	Invoice # 2314176 OMIDD Flow Control Structures 12/07/2022			4,740.00	\$4,740.00
HESCO	Invoice # 2314177 OMIDD Flow Control Structures 01/25/2023			5,358.91	\$5,358.91
HESCO	Invoice # 2314178 OMIDD Flow Control Structures 10/21/2022			1,110.00	\$1,110.00
Kennedy Industries	Invoice # 635125 - NESPS Field Service 1/24/2023			3,182.50	\$3,182.50
Kennedy Industries	Invoice # 634356 - NESPS Field Service 01/18/2023			1,858.00	\$1,858.00
METCO	Invoice # 1811-50 01/30/2023 Through 02/26/2023			120,788.27	\$120,788.27
Motor City Electric Technologies	Invoice # 95022 NESP SCADA T&M Service Date 02/15/2023			1,525.74	\$1,525.74
NTH Consultants	Invoice # 632143 OMIDD Immediate Repairs 01/28/2023 Through 02/17/2023			277.84	\$277.84
NTH Consultants	Invoice # 632144 NIEA Design for PCI-4 01/28/2023 Through 02/17/2023	9,143.22			\$9,143.22
NTH Consultants	Invoice # 632145 (D-425) Engineering Services Through 2/17/2023	65,761.73			\$65,761.73
NTH Consultants	Invoice # 632150 OMIDD System Inspection 01/28/2023 Through 02/17/2023			2,355.11	\$2,355.11
PM Technologies	Invoice # 70881913 NESPS Generator 1 Completed Date 02/14/2023			2,019.43	\$2,019.43
	Total Invoices/Reimbursements for Approval	\$80,954.72	\$98,506.04	\$154,854.30	\$334,315.06
	* Less WRC Charges already paid from OMI Fund	(6,049.77)	(10,443.00)	0.00	(16,492.77)
	Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board	\$74,904.95	\$88,063.04	\$154,854.30	\$317,822.29

## **Agenda Item No. 10**

### **Invoices**

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 1/28/23 - 2/24/23									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1094849	01/30/23	01/17/23	BROWN, JOEL	1.50	197.33	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	01/30/23	01/18/23	BROWN, JOEL	3.50	460.43	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	01/30/23	01/19/23	BROWN, JOEL	2.00	263.10	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	01/30/23	01/23/23	BROWN, JOEL	1.50	197.33	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	01/30/23	01/25/23	BROWN, JOEL	2.00	263.10	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	01/30/23	01/26/23	BROWN, JOEL	3.00	394.65	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	01/30/23	01/27/23	BROWN, JOEL	2.50	328.88	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	01/30/23	BROWN, JOEL	1.00	131.55	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/01/23	BROWN, JOEL	1.00	131.55	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/02/23	BROWN, JOEL	3.00	394.65	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/03/23	BROWN, JOEL	1.00	131.55	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/06/23	BROWN, JOEL	1.00	131.55	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/07/23	BROWN, JOEL	1.00	131.55	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/08/23	BROWN, JOEL	1.50	197.33	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/09/23	BROWN, JOEL	4.00	526.20	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1094849	02/16/23	02/10/23	BROWN, JOEL	1.50	197.33	REGULAR	WRCCON	PRJ-13309	ENGINEERING
			<b>BROWN, JOEL Total</b>		<b>4,078.08</b>				
1094845	02/07/23	01/31/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/07/23	02/02/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/07/23	02/07/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/07/23	02/09/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/22/23	02/14/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/22/23	02/16/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/22/23	02/21/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
1094845	02/22/23	02/23/23	POUSHO, ROBERT	8.00	459.20	REGULAR	WRCCON	PRJ-13309	INSPECTION
			<b>POUSHO, ROBERT Total</b>		<b>3,673.60</b>				
1131289	01/30/23	01/17/23	PUSCAS, JACK J	4.00	323.28	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	01/30/23	01/19/23	PUSCAS, JACK J	4.00	323.28	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/01/23	01/23/23	PUSCAS, JACK J	4.00	323.28	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/01/23	01/25/23	PUSCAS, JACK J	1.00	80.82	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/01/23	01/26/23	PUSCAS, JACK J	4.00	323.28	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/15/23	01/30/23	PUSCAS, JACK J	1.00	80.82	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/15/23	02/06/23	PUSCAS, JACK J	4.00	323.28	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/15/23	02/07/23	PUSCAS, JACK J	2.00	161.64	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	02/15/23	02/09/23	PUSCAS, JACK J	5.00	404.10	REGULAR	WRCADM	PRJ-13309	ENGINEERING
			<b>PUSCAS, JACK J Total</b>		<b>2,343.78</b>				
			<b>Grand Total</b>		<b>10,095.46</b>				

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 1/28/23 - 2/24/23									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1094849	01/30/23	01/17/23	BROWN, JOEL	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/17/23	BROWN, JOEL	1.50	0.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/17/23	BROWN, JOEL	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	01/30/23	01/18/23	BROWN, JOEL	3.50	8.19	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/18/23	BROWN, JOEL	3.50	1.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/18/23	BROWN, JOEL	3.50	0.88	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	01/30/23	01/19/23	BROWN, JOEL	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/19/23	BROWN, JOEL	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/19/23	BROWN, JOEL	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	01/30/23	01/23/23	BROWN, JOEL	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/23/23	BROWN, JOEL	1.50	0.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/23/23	BROWN, JOEL	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	01/30/23	01/25/23	BROWN, JOEL	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/25/23	BROWN, JOEL	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/25/23	BROWN, JOEL	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	01/30/23	01/26/23	BROWN, JOEL	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/26/23	BROWN, JOEL	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/26/23	BROWN, JOEL	3.00	0.75	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	01/30/23	01/27/23	BROWN, JOEL	2.50	5.85	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	01/30/23	01/27/23	BROWN, JOEL	2.50	1.00	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	01/30/23	01/27/23	BROWN, JOEL	2.50	0.63	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	01/30/23	BROWN, JOEL	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	01/30/23	BROWN, JOEL	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	01/30/23	BROWN, JOEL	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/01/23	BROWN, JOEL	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/01/23	BROWN, JOEL	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/01/23	BROWN, JOEL	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	02/02/23	BROWN, JOEL	3.00	7.02	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/02/23	BROWN, JOEL	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/03/23	BROWN, JOEL	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/03/23	BROWN, JOEL	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/03/23	BROWN, JOEL	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	02/06/23	BROWN, JOEL	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/06/23	BROWN, JOEL	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	02/06/23	BROWN, JOEL	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/07/23	BROWN, JOEL	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/07/23	BROWN, JOEL	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/07/23	BROWN, JOEL	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	02/08/23	BROWN, JOEL	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/08/23	BROWN, JOEL	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	02/08/23	BROWN, JOEL	1.50	0.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/09/23	BROWN, JOEL	4.00	1.00	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/09/23	BROWN, JOEL	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/09/23	BROWN, JOEL	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1094849	02/16/23	02/10/23	BROWN, JOEL	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1094849	02/16/23	02/10/23	BROWN, JOEL	1.50	0.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1094849	02/16/23	02/10/23	BROWN, JOEL	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
			<b>BROWN, JOEL Total</b>		<b>92.72</b>				
1094845	02/07/23	01/31/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/07/23	01/31/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/07/23	02/02/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/07/23	02/02/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/07/23	02/07/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/07/23	02/07/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/07/23	02/09/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/07/23	02/09/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/22/23	02/14/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/22/23	02/14/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/22/23	02/16/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/22/23	02/16/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/22/23	02/21/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1094845	02/22/23	02/21/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/22/23	02/23/23	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1094845	02/22/23	02/23/23	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
			<b>POUSHO, ROBERT Total</b>		<b>175.36</b>				
1131289	01/30/23	01/17/23	PUSCAS, JACK J	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	01/30/23	01/17/23	PUSCAS, JACK J	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	01/30/23	01/19/23	PUSCAS, JACK J	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	01/30/23	01/19/23	PUSCAS, JACK J	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/01/23	01/23/23	PUSCAS, JACK J	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/01/23	01/23/23	PUSCAS, JACK J	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	02/01/23	01/25/23	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	02/01/23	01/25/23	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/01/23	01/26/23	PUSCAS, JACK J	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	02/01/23	01/26/23	PUSCAS, JACK J	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING

1131289	02/15/23	01/30/23	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	02/15/23	01/30/23	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/15/23	02/06/23	PUSCAS, JACK J	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/15/23	02/06/23	PUSCAS, JACK J	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	02/15/23	02/07/23	PUSCAS, JACK J	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	02/15/23	02/07/23	PUSCAS, JACK J	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/15/23	02/09/23	PUSCAS, JACK J	5.00	11.70	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	02/15/23	02/09/23	PUSCAS, JACK J	5.00	2.00	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
			<b>PUSCAS, JACK J Total</b>		<b>79.46</b>				
			<b>Grand Total</b>		<b>347.54</b>				

OMI Segment 5 NI-EA Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 1/28/23 - 2/24/23									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1094815	01/30/23	01/17/23	BROWN, JOEL	1.5	197.33	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	01/30/23	01/18/23	BROWN, JOEL	3.5	460.43	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	01/30/23	01/19/23	BROWN, JOEL	1	131.55	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	01/30/23	01/20/23	BROWN, JOEL	2	263.10	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	01/30/23	01/23/23	BROWN, JOEL	2	263.10	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	01/30/23	01/24/23	BROWN, JOEL	1.5	197.33	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	01/30/23	01/25/23	BROWN, JOEL	2	263.10	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	02/16/23	01/30/23	BROWN, JOEL	0.5	65.78	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	02/16/23	01/31/23	BROWN, JOEL	1	131.55	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	02/16/23	02/01/23	BROWN, JOEL	2	263.10	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	02/16/23	02/03/23	BROWN, JOEL	1	131.55	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	02/16/23	02/07/23	BROWN, JOEL	2	263.10	REGULAR	WRCCON	PRJ-13308	ENGINEERING
1094815	02/16/23	02/08/23	BROWN, JOEL	1	131.55	REGULAR	WRCCON	PRJ-13308	ENGINEERING
			<b>BROWN, JOEL Total</b>		<b>2,762.57</b>				
1094815	02/10/23	01/31/23	LOCKHART, SIDNEY	2	286.04	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1094815	02/10/23	02/01/23	LOCKHART, SIDNEY	2	286.04	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1094815	02/10/23	02/02/23	LOCKHART, SIDNEY	1	143.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1094815	02/10/23	02/06/23	LOCKHART, SIDNEY	2	286.04	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1094815	02/10/23	02/07/23	LOCKHART, SIDNEY	2	286.04	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1094815	02/10/23	02/08/23	LOCKHART, SIDNEY	1	143.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
			<b>LOCKHART, SIDNEY Total</b>		<b>1,430.20</b>				
1094816	02/09/23	02/02/23	PARROTT, JEFFREY	1	85.74	REGULAR	WRCROW	PRJ-13308	ROW
1094816	02/09/23	02/09/23	PARROTT, JEFFREY	2	171.48	REGULAR	WRCROW	PRJ-13308	ROW
1094816	02/09/23	02/10/23	PARROTT, JEFFREY	3	257.22	REGULAR	WRCROW	PRJ-13308	ROW
1094816	02/24/23	02/21/23	PARROTT, JEFFREY	1	85.74	REGULAR	WRCROW	PRJ-13308	ROW
			<b>PARROTT, JEFFREY Total</b>		<b>600.18</b>				
1131284	01/30/23	01/17/23	PUSCAS, JACK J	4	323.28	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	01/30/23	01/19/23	PUSCAS, JACK J	4	323.28	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	02/01/23	01/24/23	PUSCAS, JACK J	1	80.82	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	02/15/23	01/31/23	PUSCAS, JACK J	1	80.82	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	02/15/23	02/01/23	PUSCAS, JACK J	1	80.82	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	02/15/23	02/07/23	PUSCAS, JACK J	1	80.82	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	02/15/23	02/08/23	PUSCAS, JACK J	1	80.82	REGULAR	WRCADM	PRJ-13308	ENGINEERING
			<b>PUSCAS, JACK J Total</b>		<b>1,050.66</b>				
			<b>Grand Total</b>		<b>5,843.61</b>				

**OMI Segment 5 NI-EA Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 1/28/23 - 2/24/23**

WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1094815	01/30/23	01/17/23	BROWN, JOEL	1.5	3.51	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/17/23	BROWN, JOEL	1.5	0.60	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/17/23	BROWN, JOEL	1.5	0.38	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	01/30/23	01/18/23	BROWN, JOEL	3.5	8.19	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/18/23	BROWN, JOEL	3.5	1.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/18/23	BROWN, JOEL	3.5	0.88	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	01/30/23	01/19/23	BROWN, JOEL	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/19/23	BROWN, JOEL	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/19/23	BROWN, JOEL	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	01/30/23	01/20/23	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/20/23	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/20/23	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	01/30/23	01/23/23	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/23/23	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/23/23	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	01/30/23	01/24/23	BROWN, JOEL	1.5	3.51	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/24/23	BROWN, JOEL	1.5	0.60	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/24/23	BROWN, JOEL	1.5	0.38	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	01/30/23	01/25/23	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	01/30/23	01/25/23	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	01/30/23	01/25/23	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	01/30/23	BROWN, JOEL	0.5	0.13	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	01/30/23	BROWN, JOEL	0.5	1.17	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/16/23	01/30/23	BROWN, JOEL	0.5	0.20	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/16/23	01/31/23	BROWN, JOEL	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	01/31/23	BROWN, JOEL	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/16/23	01/31/23	BROWN, JOEL	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/16/23	02/01/23	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	02/01/23	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/16/23	02/01/23	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/16/23	02/03/23	BROWN, JOEL	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	02/03/23	BROWN, JOEL	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/16/23	02/03/23	BROWN, JOEL	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/16/23	02/07/23	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	02/07/23	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/16/23	02/07/23	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/16/23	02/08/23	BROWN, JOEL	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/16/23	02/08/23	BROWN, JOEL	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/16/23	02/08/23	BROWN, JOEL	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
			<b>BROWN, JOEL Total</b>		<b>62.81</b>				
1094815	02/10/23	01/31/23	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/10/23	01/31/23	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/10/23	01/31/23	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/10/23	01/31/23	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	PRJ-13308	ENGINEERING
1094815	02/10/23	02/01/23	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/10/23	02/01/23	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/10/23	02/01/23	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/10/23	02/01/23	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	PRJ-13308	ENGINEERING
1094815	02/10/23	02/02/23	LOCKHART, SIDNEY	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/10/23	02/02/23	LOCKHART, SIDNEY	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/10/23	02/02/23	LOCKHART, SIDNEY	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/10/23	02/02/23	LOCKHART, SIDNEY	1	5.69	ASSIGNED	Blazer/Suburbans	PRJ-13308	ENGINEERING
1094815	02/10/23	02/06/23	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/10/23	02/06/23	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/10/23	02/06/23	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/10/23	02/06/23	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	PRJ-13308	ENGINEERING
1094815	02/10/23	02/07/23	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/10/23	02/07/23	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/10/23	02/07/23	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/10/23	02/07/23	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	PRJ-13308	ENGINEERING
1094815	02/10/23	02/08/23	LOCKHART, SIDNEY	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1094815	02/10/23	02/08/23	LOCKHART, SIDNEY	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ENGINEERING
1094815	02/10/23	02/08/23	LOCKHART, SIDNEY	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1094815	02/10/23	02/08/23	LOCKHART, SIDNEY	1	5.69	ASSIGNED	Blazer/Suburbans	PRJ-13308	ENGINEERING
			<b>LOCKHART, SIDNEY Total</b>		<b>86.80</b>				
1094816	02/09/23	02/02/23	PARROTT, JEFFREY	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	02/09/23	02/02/23	PARROTT, JEFFREY	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	02/09/23	02/02/23	PARROTT, JEFFREY	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	02/09/23	02/09/23	PARROTT, JEFFREY	2	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	02/09/23	02/09/23	PARROTT, JEFFREY	2	0.80	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	02/09/23	02/09/23	PARROTT, JEFFREY	2	4.68	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	02/09/23	02/10/23	PARROTT, JEFFREY	3	7.02	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	02/09/23	02/10/23	PARROTT, JEFFREY	3	0.75	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	02/09/23	02/10/23	PARROTT, JEFFREY	3	1.20	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	02/24/23	02/21/23	PARROTT, JEFFREY	1	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ROW

1094816	02/24/23	02/21/23	PARROTT, JEFFREY	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	02/24/23	02/21/23	PARROTT, JEFFREY	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ROW
			<b>PARROTT, JEFFREY Total</b>		<b>20.93</b>				
1131284	01/30/23	01/17/23	PUSCAS, JACK J	4	1.60	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	01/30/23	01/17/23	PUSCAS, JACK J	4	9.36	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	01/30/23	01/19/23	PUSCAS, JACK J	4	1.60	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	01/30/23	01/19/23	PUSCAS, JACK J	4	9.36	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	02/01/23	01/24/23	PUSCAS, JACK J	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	02/01/23	01/24/23	PUSCAS, JACK J	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	02/15/23	01/31/23	PUSCAS, JACK J	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	02/15/23	01/31/23	PUSCAS, JACK J	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	02/15/23	02/01/23	PUSCAS, JACK J	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	02/15/23	02/01/23	PUSCAS, JACK J	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	02/15/23	02/07/23	PUSCAS, JACK J	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	02/15/23	02/07/23	PUSCAS, JACK J	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	02/15/23	02/08/23	PUSCAS, JACK J	1	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	02/15/23	02/08/23	PUSCAS, JACK J	1	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
			<b>PUSCAS, JACK J Total</b>		<b>35.62</b>				
			<b>Grand Total</b>		<b>206.16</b>				





# Applied Science, Inc.

21455 Melrose Ave. Bldg R Suite 12 Southfield, MI 48075  
Phone: (313) 567-3990 Fax: (313) 567-3750  
www.asi-detroit.com

March 6, 2023

Project Invoice # 48 (ASI Inv. 8380)

Joel Brown, P.E.  
Civil Engineer III  
Oakland County Water Resources Commissioner's Office  
One Public Works Drive, Building 95 West  
Waterford, MI 48328

Re: Northeast Sanitary Pump Station  
Contract #5470  
(ASI Job No. 1815)

Invoice Period: 1/29/23-2/25/23

**li# 41133 v#352**

Task No.	Task Description	Total This Invoice
1	<b>Transition &amp; Basis of Design</b>	
	Total:	\$ -
	Subconsultants:	
	<b>FK Engineering:</b>	\$ -
	ASI Markup 5%:	\$ -
	<b>Total:</b>	<u>\$ -</u>
	Previous Amount Invoiced:	
	Total Invoiced To-Date	
	Contract Task Total:	
	Amount Remaining:	

Task No.	Task Description	Total This Invoice
2	<b>Design Services for Pump &amp; Electrical Upgrades</b>	
	Total:	\$ -
	Subconsultants:	
	<b>Metco Services</b>	\$ -
	<b>FK Engineering:</b>	\$ -
	<b>NTH Consultants</b>	\$ -
	<b>AEW</b>	\$ -
	ASI Markup 5%:	\$ -
	<b>Total Due This Invoice:</b>	<u>\$ -</u>
	<b>Total This Invoice</b>	<u>\$ -</u>

Task No.	Task Description	Total This Invoice
3	<b>Additional Special Services</b>	
	Total:	\$ -
	Subconsultants:	
	<b>NTH Consultants</b>	\$ -
	<b>FK Engineering:</b>	\$ -
	ASI Markup 5%:	\$ -
	<b>Total Due This Invoice:</b>	<u>\$ -</u>
	<b>Total This Invoice</b>	<u>\$ -</u>

Task No.	Task Description	Total This Invoice
5	<b>Construction Services</b>	
	Total:	\$ 28,367.00
	Subconsultants:	
	<b>NTH Consultants</b>	\$ 21,043.18
	<b>Metco Services</b>	\$ 10,528.00
	<b>FK Engineering:</b>	\$ 4,101.50
	ASI Markup 5%:	\$ 1,783.63
	<b>Direct Expenses:</b>	\$ -
	<b>Total Due This Invoice:</b>	<u>\$ 65,823.31</u>
	Previous Amount Invoiced:	

**84917-149015-730639-1-3309**  
**engcon JTB 3/9/2023**

Task No.	Task Description	Total This Invoice
6	<b>Control Structure Rehab</b>	
	Total:	\$ 6,041.00
	Subconsultants:	
	<b>NTH Consultants</b>	\$ -
	<b>Metco Services</b>	\$ -
	ASI Markup 5%:	\$ -
	<b>Direct Expenses:</b>	\$ -
	<b>Total Due This Invoice:</b>	<u>\$ 6,041.00</u>

**82912-149667-730639-**  
**PRJ-17060 engcon JTB 3/9/2023**

### Summary

<b>Total Due This Invoice-All Tasks:</b>	<b>\$ 71,864.31</b>
Previous Amount Invoiced:	\$ 3,924,249.43
Amount Invoiced for MCC Incident (separate invoice):	\$ 4,715.74
Total Invoiced To-Date	\$ 4,000,829.48
Original Contract Task Total:	\$ 4,198,380.00
Additional Budget-Task 5:	\$ 284,076.60
Additional Budget-Task 6:	\$ 220,326.00
Current Contract Task Total:	\$ 4,702,782.60
Amount Remaining:	<u>\$ 701,953.12</u>



# Applied Science, Inc.

21455 Melrose Ave. Bldg R Suite 12 Southfield, MI 48075  
Phone: (313) 567-3990 Fax: (313) 567-3750  
www.asi-detroit.com

February 2, 2023

Project Invoice #47a ( ASI Inv. 8358)

Joel Brown, P.E.  
Civil Engineer III  
Oakland County Water Resources Commissioner's Office  
One Public Works Drive, Building 95 West  
Waterford, MI 48328

Re: Northeast Sanitary Pump Station  
Contract #5470  
(ASI Job No. 1815)

**84917-149015-730520-  
1-3309 engcon li# 41133 v#352**

Task - MCC Incident

Invoice Period: 1/1/23-1/28/23

*Joel Brown*

**3/9/2023**

<u>Employee</u>	<u>Job Classification</u>	<u>MCC Incident</u>	<u>Total Hours</u>	<u>Direct Labor Rate</u>	<u>Total</u>
John Michalski	Sr. Project Manager	4.5	4.5	\$ 169.00	\$ 760.50
Total Labor:		\$ 760.50			\$ 760.50
Subconsultant:NTH		\$ 4,880.23			\$ 4,880.23
Subconsultant:METCO		\$ 11,085.00			\$ 11,085.00
ASI Markup 5%		\$ 15,965.23			\$ 15,965.23
Direct Expenses ( receipts attached):		\$ 798.26			\$ 798.26
		\$ -			\$ -
Total This Invoice:		\$ 17,523.99			\$ 17,523.99
Previous Amount Invoiced:		\$ 31,762.11			\$ 31,762.11
Total Invoiced To Date:		\$ 49,286.10			\$ 49,286.10



Knowledgeable • Professional • Attentive • Likeable

29770 Hudson Drive Novi, MI 48377  
Phone: (586) 978-7200  
hesco-mi.com

Invoice No. 2314175

Date: 02/06/2023

82912 - 149130 - 730660 - 5819 - Ch. 21 - v#3091 - exp. 6/30/25 - li#42703

Billed To: OMID Drainage District  
1 Public Works Drive  
Waterford MI 48328

*JL* 3/9/2023

Contract ID: 5819  
HESCO Project: 2019807S OMID Flow Control Structures

Contact: Terry Moore P.O.# WO#559 CS-5 Salesperson: Kevin Livingston Due Date: 03/08/2023

Description	Unit	Qty	Rate	Amount
10/21/2022 - Replaced Limit Switches from OMID Inventory ✓				
Senior Tech	Hours	9.50	195.00	1,852.50
Tech 1	Hours	7.00	185.00	1,295.00
Tech 2	Hours	7.00	175.00	1,225.00
Tech 2	Hours	7.00	175.00	1,225.00

Notes:

*TM-2-13-23*

Non-Taxable Amount:	5,597.50
Taxable Amount:	0.00
Sales Tax:	0.00
Total Invoice	5,597.50
Payments/Credits:	0.00
<b>Amount Due</b>	<b>5,597.50</b>



29770 Hudson Drive Novi, MI 48377  
Phone: (586) 978-7200  
hesco-mi.com

Invoice No. 2314176

Date: 02/06/2023

Billed To: OMID Drainage District  
1 Public Works Drive  
Waterford MI 48328

82912 - 149130 - 730660 - 5819 - Ch. 21 - v#3091 - exp.  
6/30/25 - li#42703

*JL* *3/9/2023*

Contract ID: 5819  
HESCO Project: 2019807S OMID Flow Control Structures

Contact: Terry Moore      P.O.# WO# 814 CS-5      Salesperson: Kevin Livingston      Due Date: 03/08/2023

Description	Unit	Qty	Rate	Amount
12/7/2022 - Limit Switch and Hose Replacement from OMID Stock ✓				
Senior Tech	Hours	9.50	195.00	1,852.50
Tech 1	Hours	8.75	185.00	1,618.75
Tech 2	Hours	7.25	175.00	1,268.75

Notes:

*TM-2-13-23*

Non-Taxable Amount:	4,740.00
Taxable Amount:	0.00
Sales Tax:	0.00
Total Invoice	4,740.00
Payments/Credits	0.00
<b>Amount Due</b>	<b>4,740.00</b>



Knowledgeable • Professional • Attentive • Likeable

29770 Hudson Drive Novi, MI 48377  
Phone: (586) 978-7200  
hesco-mi.com

Invoice No. 2314177

Date: 02/06/2023

82912 - 149130 - 730660 - 5819 - Ch. 21 - v#3091 - exp.  
6/30/25 - li#42703

Billed To: OMID Drainage District  
1 Public Works Drive  
Waterford MI 48328

*Jeff Brown* 3/9/2023

Contract ID: 5819  
HESCO Project: 2019807S OMID Flow Control Structures

Contact: Terry Moore P.O.# WO#853 CS-9 Salesperson: Kevin Livingston Due Date: 03/08/2023

Description	Unit	Qty	Rate	Amount
<b>1/25/2023 - Preventative Maintenance and Gate Cleanup</b>				
Senior Tech	Each	8.00	195.00	1,560.00
Tech II	Each	8.00	185.00	1,480.00
Tech I	Each	9.00	175.00	1,575.00
<b>Parts</b>				
Hydraulic Oil	Gallons	25.00	25.52	638.00
Pressure Filter - OMID Stock	Each	2.00		
Return Filter - OMID Stock	Each	1.00		
P50T - Swivel 90	Each	1.00	104.22	104.22
P54A - Male Connector	Each	1.00	1.69	1.69

Notes:

*TM-2-13-23*

Non-Taxable Amount	4,615.00
Taxable Amount:	743.91
Sales Tax:	0.00
Total Invoice	5,358.91
Payments/Credits:	0.00
<b>Amount Due</b>	<b>5,358.91</b>



Knowledgeable • Professional • Attentive • Likeable

29770 Hudson Drive Novi, MI 48377  
Phone: (586) 978-7200  
hesco-mi.com

Invoice No. 2314178

Date: 02/06/2023

82912 - 149130 - 730660 - 5819 - Ch. 21 - v#3091 - exp.  
6/30/25 - li#42703

Billed To: OMID Drainage District  
1 Public Works Drive  
Waterford MI 48328

*JL Ben* 3/9/2023

Contract ID: 5819  
HESCO Project: 2019807S OMID Flow Control Structures

Contact: Terry Moore P.O.# WO#809 CS-9 Salesperson: Kevin Livingston Due Date: 03/08/2023

Description	Unit	Qty	Rate	Amount
1/25/2023 - Counterbalance Valve Cleanup/Gate Drift Problem ✓				
Senior Tech	Each	2.00	195.00	390.00
Tech II	Each	2.00	185.00	370.00
Tech I	Each	2.00	175.00	350.00

Notes:

*TM-2-13-23*

Non-Taxable Amount:	1,110.00
Taxable Amount:	0.00
Sales Tax:	0.00
Total Invoice	1,110.00
Payments/Credits:	0.00
<b>Amount Due</b>	<b>1,110.00</b> ✓

INVOICE		
DATE	NUMBER	PAGE
2/13/2023	635125	1 of 1

B OMI100  
I OAKLAND MACOMB INTERCEPTOR DRA  
L 1 PUBLIC WORKS DR.  
L SUBMIT INVOICES TO NEXGEN  
T WATERFORD, MI 48328  
O

S NORTH EAST PUMPING STATION  
H 11001 E. STATE FAIR AVE  
I DETROIT, MI 48234  
P  
T  
O

**82912-6010101-149090-730660-5825-**  
**ch.21- v#239 exp. 6/30/25** *Jed Ben*

3/9/2023

ATTENTION:  
TERRY MOORE 313-8297207 TMOORE@METCOSERVICES.COM

CUSTOMER REF/PO #	JOB #	JOB TITLE	SLP	SHIPPING TYPE	TERMS
5825-WO#00854	0118976	GREAT LAKES WATER AUTHORITY, NORTHEAST PUMP STATION, EBARA, PUMP, DLFU, SANITARY	KES/CAG	CUSTOMER PICKUP	NET 60
QUANTITY		DESCRIPTION	UNIT PRICE		EXTENDED
B/O	Ship				

0.00	1.00	OAKLAND MACOMB INTERCEPTOR DRA KENNEDY INDUSTRIES PROVIDED (2) FIELD SERVICE TECHNICIAN(S) ONSITE ON 1/24/2023. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$2,332.50	\$2,332.50
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THIS INVOICE REFLECTS:

(15.75) HOURS OF LABOR.

MILEAGE: \$33.00

0.00	1.00	EBARA,PUMP,DLFU INSPECTED IN OUR FACILITY. RETURNED LESS REPAIR.	\$850.00	\$850.00
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*T M - 2-20-23*

PLEASE REMIT TO:  
KENNEDY INDUSTRIES, INC.  
P.O. BOX 930079  
WIXOM, MI 48393

<p>This invoice is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms &amp; Conditions (Rev'd 4/2019) and Customer Warranty available at <a href="http://www.kennedyind.com">www.kennedyind.com</a> which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms &amp; Conditions and Customer Warranty posted on Kennedy's website</p> <p><b>*TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE *A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE *CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE</b></p>	SUBTOTAL:	\$3,182.50
	TAX:	\$0.00
	TOTAL:	\$3,182.50



**KENNEDY**  
INDUSTRIES

INNOVATE  
SOLVE  
MONITOR  
REPAIR

INVOICE		
DATE	NUMBER	PAGE
2/17/2023	635133	1 of 1

B OMI100  
I OAKLAND MACOMB INTERCEPTOR DRA  
L 1 PUBLIC WORKS DR.  
L SUBMIT INVOICES TO NEXGEN  
T WATERFORD, MI 48328  
O

S NORTH EAST PUMPING STATION  
H 11001 E. STATE FAIR AVE  
I DETROIT, MI 48234  
P  
T  
O

**82912-6010101-149090-730660-5825-  
ch.21- v#239 exp. 6/30/25**

*JL*

3/9/2023

ATTENTION:

TERRY MOORE 313-8297207 TMOORE@METCOSERVICES.COM

CUSTOMER REF/PO #	JOB #	JOB TITLE	SLP	SHIPPING TYPE	TERMS
5825	0118330	GREAT LAKES WATER AUTHORITY, NORTHEAST PUMPING STATION, FIELD SERVICE, SANITARY	KES/KTT	FIELD SERVICE	NET 60
QUANTITY		PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED
B/O	Ship				

0.00	1.00	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (2) FIELD SERVICE TECHNICIAN(S) ONSITE ON 1/18/2023. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$1,858.00	\$1,858.00
------	------	-------------------	--	------------	------------

THIS INVOICE REFLECTS:

(12.5) HOURS OF LABOR. ✓

MILEAGE: \$33.00 ✓

*TM-2-22-23*

PLEASE REMIT TO:  
KENNEDY INDUSTRIES, INC.  
P.O. BOX 930079  
WIXOM, MI 48393

<small>This invoice is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms &amp; Conditions (Rev'd 4/2019) and Customer Warranty available at <a href="http://www.kennedyind.com">www.kennedyind.com</a> which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms &amp; Conditions and Customer Warranty posted on Kennedy's website.</small>  <b>*TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE *A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE *CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE</b>	SUBTOTAL:	\$1,858.00
	TAX:	\$0.00
	TOTAL:	\$1,858.00 ✓

P.O. Box 930079 Wixom, MI 48393 - 4925 Holtz Drive Wixom, MI 48393 - Phone: 248-684-1200 - Fax: 248-684-6011

[www.KennedyInd.com](http://www.KennedyInd.com)





INVOICE NO. 1811-50

DATE: March 1, 2023

METCO PROJECT NO. 1811

INVOICE PERIOD: 01/30 thru 2/26/23

Contract ID 000000000000000000005517

Vendor ID 0000020486

TO: OMIDD
Water Resources Commissioner
One Public Works Drive
Waterford, MI 48328
Attn: Mr. Sid Lockhart, PE
Deputy Chief Engineer/Special Projects Manager

TITLE: OMID & NESPS Operation and Maintenance

Operational Plan

OMID Operations - Fund 82912, Program 149130, Account 730373 (3.1-3.4A & 3.4B)

JTB 3/9/2023

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Rows include Raj Vijayendran, PE, Terry Moore, Darrin Green, Anthony Vozza, Rosana Santos. Subtotal OMID Operatons: \$ 17,627.50

NEPS Operations - Fund 82912, Program 149090, Account 730373 (3.1-3.4A & 3.4B)

JTB 3/9/2023

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Rows include Raj Vijayendran, PE, Terry Moore, Darrin Green, Anthony Vozza, Rosana Santos. Subtotal NEPS Operations \$ 14,610.16

Subtotal Operations \$ 32,237.66

Maintenance & Asset Management

OMID Maintenance - Fund 82912, Program 149130, Account 730646 (3.2-3.3-3.4C & ALLOWANCE)

3/9/2023 JTB

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Rows include Terry Moore, Anthony Vozza, Darrin Green. Subtotal OMID Maintenance: \$ 5,800.00 minus credit due #49 \$ 1,900.00 Subtotal OMID Maintenance: \$ 3,900.00

NEPS Maintenance - Fund 82912, Program 149090, Account 730646 (3.2-3.3-3.4C & ALLOWANCE)

3/9/2023 JTB

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Rows include Raj Vijayendran, PE, Terry Moore, Daniel Martel, Sean Grant, Travis Ford. Subtotal NEPS Maintenance: \$ 8,845.00

Shailesh Patel	Sr. Project Engineer	0.0	\$	145.00	\$	-
Darrin Green	Staff Engineer	36.0	\$	90.00	\$	3,240.00
Darrin Green	Staff Engineer-(Overtime)	1.0	\$	135.00	\$	135.00
Anthony Vozza	Staff Engineer	55.0	\$	90.00	\$	4,950.00
Anthony Vozza	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
<b>Subtotal:</b>					<b>\$</b>	<b>24,690.00</b>
<b>Maintenance Services (see attached invoices):</b>					<b>\$</b>	<b>9,318.75</b>
<b>Subtotal NEPS Maintenance:</b>					<b>\$</b>	<b>34,008.75</b>
<b>Subtotal Maintenance:</b>					<b>\$</b>	<b>37,908.75</b>

**NEXGEN Asset Management Implementation Services – Fund 82912, Program 149090, Account 730646**

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>		<u>Rate/Hr.</u>		<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	0.0	\$	215.00	\$	-
Terry Moore	Operations Manager	0.0	\$	145.00	\$	-
Terry Moore	Operations Manager (Overtime)	0.0	\$	195.00	\$	-
Sean Grant	Sr. Project Engineer	14.0	\$	145.00	\$	2,030.00
Darrin Green	Staff Engineer	0.0	\$	90.00	\$	-
Darrin Green	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Anthony Vozza	Staff Engineer	0.0	\$	90.00	\$	-
Abhishek Shah	Staff Engineer	120.0	\$	90.00	\$	10,800.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
<b>Subtotal Maintenance:</b>					<b>\$</b>	<b>12,830.00</b>

**Task 12.0 - As-Needed Services**

<b>Additional General/Excess Liability Insurance Fee:</b>	<b>\$</b>	<b>37,811.86</b>
<b>Subtotal 12.0:</b>	<b>\$</b>	<b>37,811.86</b>
<b>TOTAL AMOUNT DUE THIS INVOICE:</b>	<b>\$</b>	<b>120,788.27</b>



**MOTOR CITY ELECTRIC TECHNOLOGIES INC.**

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL  
 DETROIT, MI 48213-1151  
 PHONE (313) 921-5300 FAX (313) 921-5310  
 "AN EQUAL OPPORTUNITY EMPLOYER"

# INVOICE

OMID  
 ONE PUBLIC WORKS DRIVE, BUILDING 95  
 WATERFORD, MI 48328-

Customer  
 PO Number  
 5469

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
923567	0	001	2/15/2023	3/6/2023	95022

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&MNESP SCADA	\$1,525.74	-	\$1,525.74	\$1,525.74	-	-
<b>Totals:</b>		<b>\$1,525.74</b>		<b>\$1,525.74</b>	<b>\$1,525.74</b>		
Less Retained:							
<b>Invoice Total:</b>				<b>\$1,525.74</b>			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

**82912 - 6010101 - 149090- 730660 - 5469 - Ch. 21 - v# 7755 - li# 41132 - exp. 12/31/23**

WORK ORDER #00829 - WORK PERFORMED 12/27/2022, 2/6 & 2/15/2023

*JL Ben*

3/9/2023

*TM-3-6-23*

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



**NTH Consultants, Ltd.**  
 Infrastructure Engineering  
 and Environmental Services

**82912 - 6010101 - 149662 - 730639 - 2603 - 1-3015 - ch 21 -  
 engcon v#4716 - li#24138 - exp. 12/31/23**

OMI Drain Drainage District  
 One Public Works Drive  
 Building 95 West  
 Waterford, MI 48328

*JL*

**3/9/2023**

Invoice #: 632143  
 Project: 61-190044  
 Invoice Group: REPAIRS  
 Invoice Date: 3/1/2023

Attention: Sid Lockhart

For Professional Services Rendered from **01/28/2023 - 02/17/2023**

OMID System Immediate Repairs

AMP/Inspection Reports (Task 01) **\$4,587.37**  
 Rehabilitation Design (Task 02) **\$71,617.66**  
 Construction Observation (Task 03) **\$178,109.97**  
**\$254,315.00**

Analysis of Costs		This Invoice	Cumulative
Direct Salaries (Task 01 & 02)	\$	84.74	\$ 60,057.46
Overhead %	188.00	159.31	112,908.02
Total Regular Labor Expense		244.05	172,965.48
<b>Total Direct Labor</b>		<b>244.05</b>	<b>172,965.48</b>
<b>Profit / Fixed Fee %</b>	<b>12.00</b>	<b>29.29</b>	<b>20,755.86</b>
Direct Expenses Charge		4.29	3,702.65
Expense Multiplier %	5.00	0.21	235.14
Direct Subcontractor Charge		0.00	40,248.30
Subcontractor/Subconsultant Multiplier %	5.00	0.00	2,012.46
<b>Total Other Direct Charges Reimbursables</b>		<b>4.50</b>	<b>46,198.55</b>
<b>Total Costs:</b>		<b>277.84</b>	<b>239,919.89</b>
<b>Total Due This Invoice</b>		<b>\$ 277.84</b>	<b>\$ 239,919.89</b>



**NTH Consultants, Ltd.**

Infrastructure Engineering  
and Environmental Services

**84917 - 6010101 - 149015 - 730639 - 2603 - 1-3308 - Ch.21 v#4716 - li#24138 -  
exp. 12/31/23**

OMI Drain Drainage District  
One Public Works Drive  
Building 95 West  
Waterford, MI 48328

3/9/2023

Invoice #: 632144  
Project: 61-190078  
Invoice Group: NI-EA  
Invoice Date: 3/1/2023

Attention: Sid Lockhart

For Professional Services Rendered from

1/28/2023 - 2/17/2023

Engineering Design Services for Rehabilitation of NI-EA Sections PCI-4

Task 01	Project Management	\$276,159.00
Task 02	Condition Assessment	\$241,609.00
Task 03	Subsurface Utility Engineering	\$65,579.00
Task 04	Basemap Survey	\$89,327.00
Task 05	Geotechnical Investigation	\$134,797.00
Task 05A	7-Mile Utility Exploration/Design	\$0.00
Task 05B	Additional Geotech for PCI-4 Shaft	\$0.00
Task 06	Environmental Study	\$60,642.00
Task 07	Basis of Design	\$379,785.00
Task 08	Rehabilitation Design	\$282,099.00
Task 09	Contract Drawings	\$235,070.00
Task 10	Contract Specifications	\$188,178.00
Task 11	Construction Costs	\$27,761.00
Task 12	Permits & Coordination	\$25,655.00
Task 13	Bidding Assistance	\$198,402.00
Task 14	Gate Automation	\$68,770.00
Task 15	Odor & Air Flow Study	\$103,470.00

Preliminary Budget Amount \$2,377,303.00  
Percent Complete: 97.11%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 2,533.39	\$ 334,300.00
Overhead %	188.00	<u>4,762.77</u>	<u>628,484.03</u>
Total Regular Labor Expense		7,296.16	962,784.03
<b>Total Direct Labor</b>		7,296.16	961,162.86
<b>Profit / Fixed Fee %</b>	12.00	875.54	115,534.06
Direct Expenses Charge		116.43	30,310.16
Expense Multiplier %	5.00	5.82	1,515.55
Direct Subcontractor Charge		801.20	1,130,523.91
Subcontractor/Subconsultant Multiplier %	6.00	48.07	67,831.57
<b>Total Other Direct Charges Reimbursables</b>		<u>971.52</u>	<u>1,230,181.19</u>
<b>Total Costs:</b>		<u>9,143.22</u>	<u>2,308,499.28</u>
<b>Total Due This Invoice</b>		<u>\$ 9,143.22</u>	<u>\$ 2,308,499.28</u>



**84917- 6010101 - 149015 - 731444 - 2603 -  
1-3308- ch 21 - engcon v#4716 - li#24138 - exp.  
12/31/23**

OMI Drain Drainage District  
One Public Works Drive  
Building 95 West  
Waterford, MI 48328

Invoice # : 632145  
Project : 61-200186  
Invoice Group : \*\*  
Invoice Date : 3/1/2023

**JTB 3/9/2023**

Attentior Sid Lockhart

For Professional Services Rendered from **1/28/2023 - 2/17/2023**

Provide Engineering Services for OMID NI-EA Contract No.1 PCI-4 Rehabilitation Project and CS-9 Gate Installation Project D-425

Task 01	NI-EA OMID Contract No. 1 CCA	\$2,262,847.00
Task 02	OMID CS-9 Gate CCA	\$217,468.00
	<b>Preliminary Budget Amount</b>	<b>\$2,480,315.00</b>
	<b>Percent Complete:</b>	87.37%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 18,728.00	\$ 475,321.32
Overhead %	188.00	35,208.64	893,604.09
Total Regular Labor Expense		53,936.64	1,368,925.41
<b>Total Direct Labor</b>		<b>53,936.64</b>	<b>1,368,925.41</b>
<b>Profit / Fixed Fee %</b>	12.00	6,472.40	164,271.08
Direct Expenses Charge		2,560.49	35,237.28
Expense Multiplier %	5.00	128.02	1,761.86
Direct Subcontractor Charge		2,513.38	562,959.85
Subcontractor/Subconsultant Multiplier %	6.00	150.80	33,777.66
Direct Unit Rate Charge		0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>		<b>5,352.69</b>	<b>633,736.65</b>
<b>Total Costs:</b>		<b>65,761.73</b>	<b>2,166,933.14</b>
<b>Total Due This Invoice</b>		<b>\$ 65,761.73</b>	<b>\$ 2,166,933.13</b>



**NTH Consultants, Ltd.**  
 Infrastructure Engineering  
 and Environmental Services

**82912 - 6010101 - 149662 - 731458- 2603 - Ch. 21 - v#238 - li#24138 - exp.  
 12/31/23**

OMI Drain Drainage District  
 One Public Works Drive  
 Building 95 West  
 Waterford, MI 48328

*JL Ben*

3/9/2023

Invoice # : 632150  
 Project : 61210124  
 Invoice Group : \*\*  
 Invoice Date : 3/1/2023

Attention Sid Lockhart

For Professional Services Rendered from 1/28/2023 - 2/17/2023

Consulting Services Regarding 2021 OMID System Inspection

Task 01 Inspection and Reporting \$526,974.00  
 Preliminary Budget Amount \$526,974.00  
 Percent Complete: 55.19%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 0.00	\$ 17,238.84
Overhead %	188.00	32,409.01
Total Regular Labor Expense	0.00	49,647.85
<b>Total Direct Labor</b>	<b>0.00</b>	<b>0.00</b>
<b>Profit / Fixed Fee %</b>	<b>12.00</b>	<b>5,957.74</b>
Direct Expenses Charge	0.00	855.92
Expense Multiplier %	5.00	42.82
Direct Subcontractor Charge	2,221.80	221,083.54
Subcontractor/Subconsultant Multiplier %	6.00	13,265.02
Direct Unit Rate Charge	0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>	<b>2,355.11</b>	<b>235,247.30</b>
<b>Total Costs:</b>	<b>2,355.11</b>	<b>290,852.89</b>
<b>Total Due This Invoice</b>	<b>\$ 2,355.11</b>	<b>\$ 290,852.89</b>



PM Technologies  
 28294 Beck Road, Wixom, Michigan 48393 United States  
 (248) 374-6405

**BILL TO**

County Of Oakland  
 A Michigan Constitutional Corp  
 Detroit, MI 48234 USA

**82912-6010101-149090-730660-5821 - CH. 21**

*JL Ben*

**3/9/2023**

<b>INVOICE</b> 70881913	<b>INVOICE DATE</b> Feb 14, 2023
----------------------------	-------------------------------------

**JOB ADDRESS**

Northeast Sewage Pumping Station - Generator 1  
 11001 East State Fair Avenue  
 Detroit, MI 48234 USA

**Completed Date:** 2/14/2023  
**Payment Term:** NET 10 DAYS  
**Due Date:** 2/24/2023

**DESCRIPTION OF WORK**

On site for DTE pre test as well as actual run. Had to replace both 8D batteries on gen 1 due to bad charger. ✓

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Comm Service	Commercial Service Call Call	1.00	\$205.00	\$205.00
CAT/KATO A269500000 13669-05				
CLAB	Commercial Labor	9.39	\$129.00	\$1,211.31
CAT/KATO A269500000 13669-05				

**Materials**

MATERIAL	DESCRIPTION	QUANTITY	YOUR PRICE	YOUR TOTAL
8D BATT-NI	GROUP 8D 12V COMM 1400CCA TOP POST	2.00	\$301.56	\$603.12 ✓
<b>SUB-TOTAL</b>				\$2,019.43
<b>TOTAL DUE</b>				\$2,019.43
<b>BALANCE DUE</b>				<b>\$2,019.43</b>

*TM-2-14-23*

Thank you for choosing PM Technologies





# Applied Science, Inc.

21455 Melrose Ave. Bldg R Suite 12 Southfield, MI 48075  
Phone: (313) 567-3990 Fax: (313) 567-3750  
www.asi-detroit.com

March 6, 2023

Project Invoice #48a ( ASI Inv. 8381)

Joel Brown, P.E.  
Civil Engineer III  
Oakland County Water Resources Commissioner's Office  
One Public Works Drive, Building 95 West  
Waterford, MI 48328

Re: Northeast Sanitary Pump Station  
Contract #5470  
(ASI Job No. 1815)

**84917-149015-730520-  
1-3309 engcon li# 41133 v#352**

Task - MCC Incident

Invoice Period: 1/29/23-2/25/23

*Joel Brown*

3/9/2023

<u>Employee</u>	<u>Job Classification</u>	<u>MCC Incident</u>	<u>Total Hours</u>	<u>Direct Labor Rate</u>	<u>Total</u>
John Michalski	Sr. Project Manager	5.0	5.0	\$ 169.00	\$ 845.00
Total Labor:		\$ 845.00			\$ 845.00
Subconsultant:NTH		\$ 506.42			\$ 506.42
Subconsultant:METCO		\$ 3,180.00			\$ 3,180.00
		\$ 3,686.42			\$ 3,686.42
ASI Markup 5%		\$ 184.32			\$ 184.32
Direct Expenses ( receipts attached):		\$ -			\$ -
Total This Invoice:		\$ 4,715.74			\$ 4,715.74
Previous Amount Invoiced:		\$ 49,286.10			\$ 49,286.10
Total Invoiced To Date:		\$ 54,001.84			\$ 54,001.84

## **Agenda Item No. 11**

Other Business

**Agenda Item No. 12**

Adjourn