

AGENDA

Oakland-Macomb Interceptor Drain Drainage Board Macomb and Oakland Counties

August 18, 2021 – 11:30 a.m.

Macomb County Public Works Office and Google Meet

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 August 18, 2021
3. Motion to approve the Drainage District Board Meeting Minutes from July 21, 2021
4. Public Comment
5. OMID Flow Control Gate Operations Changes
6. Motion to approve the following Engineering Work Order:
 - a) NTH for additional Drainage District Rehabilitation Program Closeout Services and NESPS Maintenance Activities
7. Motion to approve the following Change Order:
 - a) Walsh Construction Change Order No. 14 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$163,408.71
 - b) Walsh Construction Changer Order No. 3 for Control Structure 9 Gate Installation for a net increase in the amount of \$20,051.55
8. Motion to approve the following Construction Estimates:
 - a) Final Construction Estimate No. 17 for CSM Mechanical for NESPS Odor/Corrosion Control in the amount of \$88,347.25 with a final release of reserve in the amount of \$34,705.30
 - b) Construction Estimate No. 10 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$1,049,674.37 with a transfer to the Oakland County Treasurer in the amount of \$116,630.48
 - c) Construction Estimate No. 8 for Walsh Construction for CS-9 Gate Installation in the amount of \$93,912.77 with a transfer to the Oakland County Treasurer in the amount of \$10,834.76
 - d) Construction Estimate No. 5 for Marra Services for NIEA Contract No. One in the amount of \$15,750.00 with a transfer to the Oakland County Treasurer in the amount of \$1,750.00

9. Report/Update – Status of OMID Repairs Project
10. Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing
11. Motion to approve the following invoices:
- a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs
 - 1) Labor/Fringes/Non-Direct Labor Factor
 - Segment 4 \$ 430.88
 - Segment 4 NESPS Odor Corrosion Study \$ 389.47
 - Segment 5 NI-EA Construction \$ 6,757.03
 - Segment 5 NESPS Mech./Elect. Construction \$ 21,637.48
 - 2) Equipment Charges
 - Segment 4 \$ 21.92
 - Segment 4 NESPS Odor Corrosion Study \$ 20.35
 - Segment 5 NI-EA Construction \$ 240.81
 - Segment 5 NESPS Mech./Elect. Construction \$ 2,071.99
 - 3) Mileage
 - Segment 4 \$ 100.80
 - b) ASI, Inc.
Invoice No.30 NESPS \$ 64,004.47
 - c) ATA National Title Group, LLC
Invoice No. 82-21793064-SCM O&M \$ 325.00
 - d) Clark Hill
 - 1) Invoice No. 1113630 O&M \$ 10,098.00
 - 2) Invoice No. 1113633 O&M \$ 297.00
 - e) Inland Lakes Landscaping Corp.
Invoice No. 24656 O&M \$ 500.00
 - f) Konecranes
Invoice No. 154467071 O&M \$ 59,869.50
 - g) Kurschat & Company
Invoice No. 6353 O&M \$ 3,000
 - h) METCO
Invoice No. 1811-31 O&M \$ 125,054.71
 - i) NTH Consultants, Ltd
 - 1) Consulting Services 2021 OMID Inspection
Invoice No. 2 O&M \$ 10,725.80
 - 2) Contract No. 1 PCI-4
Invoice No. 8 NI-EA \$ 78,094.90
 - 3) Eng./Consult. Services NESPS CMT
Invoice No. 10 O&M \$ 3,418.65
 - 4) NESPS Safety Manual and Crane Support
Invoice No. 12 O&M \$ 2,999.65
 - 5) NI-EA – Engineering Design Services Rehabilitation of NI-EA Sections PCI-4
Invoice No. 26 NI-EA \$ 16,506.31
 - 6) Repairs – OMID System Immediate Repairs
Invoice No. 30 OIR \$ 351.14
 - j) PMA Consultants
 - 1) Invoice No. 3559.01-14 NESPS \$ 7,211.94

12. Closed session to discuss with the Drainage District's attorney a memorandum as permitted under section 8(h) of the Open Meetings Act and which is exempt from public disclosure as subject to the attorney-client privilege pursuant to section 13(1)(g) of the Freedom of Information Act
13. Other Business
14. Adjourn

Next Regular Meeting: September 15, 2021 11:30 a.m., Eastern Time. Due to the ongoing COVID-19 pandemic, the location and manner of the next meeting has yet to be determined.

Agenda Item No. 3

Board Meeting Minutes from July 21, 2021

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

July 21, 2021

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held at the Office of the Macomb County Public Works Commissioner and via Google Meet on the 21st day of July at 11:30 a.m. Eastern Time.

PRESENT:

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

OTHERS PRESENT:

Representing the office of the Macomb County Public Works Commissioner: Brian Baker and Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Steven Korth, Joel Brown, Sid Lockhart, Kelsey Cooke, Brian Coburn, Raphael Chirolla, Sara Rubino and Megan Koss. Others in attendance: Fritz Klingler, FK Engineering; Shawn Phelps and Jeff Ragle, OC Fiscal Services; Brady Harrington, MDARD; Larry Gilbert, NTH Consultants; Terry Moore, Metco; Jason Matteo, Jacobs.

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 11:39 a.m. and noted that he, Commissioner Miller and Deputy Commissioner Vaara were all participating in-person from the Office of the Macomb County Public Works Commissioner.

2. Agenda.

Motion by Miller, supported by Vaara, to approve the July 21, 2021 agenda as presented.

AYES: Gregg, Miller and Vaara

NAYS: None

3. Minutes.

Motion by Miller, supported by Vaara, to approve the minutes of the June 16, 2021 meeting.

AYES: Gregg, Miller and Vaara

NAYS: None

4. Public Comment.

None.

5. Change Orders.

The following Change Order was submitted to the Board for approval:

- a) Walsh Construction Change Order No. 13 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$202,705.55. Motion by Vaara, supported by Miller, to approve the Change Order as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

- b) Walsh Construction Changer Order No. 2 for Control Structure 9 Gate Installation for a net increase in the amount of \$30,402.07. Motion by Miller, supported by Vaara, to approve the Change Order as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

- c) CSM Mechanical Final Change Order No. 10 for the NESPS Odor/Corrosion Control for a net increase in the amount of \$75,407.80. Motion by Miller, supported by Vaara, to approve the Change Order as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

- d) Marra Services Change Order No. 1 for NIEA OMID C-1 for a net increase in the amount of \$664,392. Motion by Vaara, supported by Miller, to approve the Change Order as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

6. Construction Pay Estimates.

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

- a) Construction Estimate No. 9 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$1,814,769.43 with a transfer to the Oakland County Treasurer in the amount of \$201,641.05. Motion by Miller, supported by Vaara, to approve the Construction Pay Estimate as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

- b) Construction Estimate No. 7 for Walsh Construction for CS-9 Gate Installation in the amount of \$803,263.63 with a transfer to the Oakland County Treasurer in the amount of \$88,851.51. Motion by Vaara, supported by Miller, to approve the Construction Pay Estimate as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

- c) Construction Estimate No. 4 for Marra Services for NIEA Contract No. One in the amount of \$259,699.95 with a transfer to the Oakland County Treasurer in the amount of \$28,855.55. Motion by Vaara, supported by Miller, to approve the Construction Pay Estimate as presented.

AYES: Gregg, Miller and Vaara
 NAYS: None

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 Miller, supported by Vaara, to receive and file the report and summary.

AYES: Gregg, Miller and Vaara
 NAYS: None

8. Financial Reports.
 Shawn Phelps of OC Fiscal Services presented the financial reports for Segments 1 through 5 and the NESPS. Motion by Vaara, supported by Miller, to receive and file the financial reports.

AYES: Gregg, Miller and Vaara
 NAYS: None

9. Invoices.

The following invoices were submitted to the Board for approval:

- a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs
- 1) Labor/Fringes/Non-Direct Labor Factor
 - Segment 4 \$ 1,723.52
 - Segment 4 NESPS Odor Corrosion Study \$ 398.83
 - Segment 5 NI-EA Construction \$ 12,522.41
 - Segment 5 NESPS Mech./Elect. Construction \$ 26,859.35
 - 2) Equipment Charges
 - Segment 4 \$ 87.68
 - Segment 4 NESPS Odor Corrosion Study \$ 10.47
 - Segment 5 NI-EA Construction \$ 528.80
 - Segment 5 NESPS Mech./Elect. Construction \$ 2,174.67
 - 3) Mileage
 - Segment 4 \$ 212.80
 - 4) Reimbursement
 - Macomb Invoice No. ARP210156 \$ 19,356.40
- b) ASI, Inc.
- 1) Invoice No. 28 NESPS \$ 73,673.60
 - 2) Invoice No. 29 NESPS \$ 87,793.39
- c) CH2M
- 1) Invoice No. 28 Seg. 4 \$ 16,014.62
 - 2) Invoice No. 30 Seg. 4 \$ 5,012.29
- d) Clark Hill
- 1) Invoice No. 1103585 O&M \$ 270.00
 - 2) Invoice No. 1103592 O&M \$ 8,532.00
- e) CSM Mechanical, LLC
- 1) Invoice No. 21OMIDD003 O&M \$ 2,989.52
 - 2) Invoice No. 21OMIDD008 O&M \$ 817.26

f)	Dickinson Wright			
1)	Invoice No. 1564575	O&M	\$	37.50
2)	Invoice No. 1591548	O&M	\$	2,437.50
g)	GLWA			
	Service Date 6/22/2021	Seg. 5	\$	266.00
h)	METCO			
	Invoice No. 1811-30	O&M	\$	96,763.64
i)	Motor City Electric Technologies Inc.			
1)	Invoice No. 93357	O&M	\$	392.13
2)	Invoice No. 93358	O&M	\$	462.00
3)	Invoice No. 93359	O&M	\$	593.37
4)	Invoice No. 93360	O&M	\$	154.00
5)	Invoice No. 93504	O&M	\$	269.50
6)	Invoice No. 93506	O&M	\$	2,236.70
7)	Invoice No. 93507	O&M	\$	308.00
8)	Invoice No. 93508	O&M	\$	799.01
9)	Invoice No. 93509	O&M	\$	77.00
10)	Invoice No. 93510	O&M	\$	308.00
11)	Invoice No. 93511	O&M	\$	1,851.90
12)	Invoice No. 93512	O&M	\$	1,337.58
13)	Invoice No. 93513	O&M	\$	269.50
14)	Invoice No. 93514	O&M	\$	154.00
j)	NTH Consultants, Ltd			
1)	Consulting Services 2021 OMID Inspection			
	Invoice No. 1	O&M	\$	1,939.97
2)	Contract No. 1 PCI-4			
	Invoice No. 7	NI-EA	\$	146,585.29
3)	Eng./Consult. Services NESPS CMT			
	Invoice No. 9	O&M	\$	9,607.55
4)	NESPS Safety Manual and Crane Support			
	Invoice No. 11	O&M	\$	1,946.13
5)	NI-EA – Engineering Design Services Rehabilitation of NI-EA Sections PCI-4			
	Invoice No. 25	NI-EA	\$	25,584.85
6)	Repairs – OMID System Immediate Repairs			
	Invoice No. 29	OIR	\$	2,805.93
k)	PM Technologies			
1)	Invoice No. 144058	O&M	\$	26,605.80
2)	Invoice No. 150870	O&M	\$	1,277.50
3)	Invoice No. 151902	O&M	\$	300.00
4)	Invoice No. 153043	O&M	\$	4,227.64
5)	Invoice No. 153406	O&M	\$	44,959.00
6)	Invoice No. 153840	O&M	\$	817.50
7)	Invoice No. 153841	O&M	\$	1,248.75
8)	Invoice No. 154143	O&M	\$	1,440.00
l)	PMA Consultants			
1)	Invoice No. 3559.01-12	NESPS	\$	8,242.22
2)	Invoice No. 3559.01-13	NESPS	\$	11,848.19

Motion by Miller, supported by Vaara, to approve the invoices as presented.

AYES: Gregg, Miller and Vaara
NAYS: None

10. Request for Proposal for OMIDDD Emergency Bypass Pumping Services.

Mr. Brown provided a brief overview of the Emergency Action Plan (EAP) that provides details as to how to respond to an electrical or mechanical catastrophic failure at the NESPS while repairs are still ongoing at the station. He noted that the EAP details the requirements needed to bypass pump upstream of the NESPS to avoid basement backups within the local sewers, which would require modifying upstream manholes at strategic locations within the Oakland Macomb Interceptor Drain and Macomb Interceptor Drain to facilitate emergency discharge pumping. He furthered that the EAP also recommends procurement of an emergency bypass pumping contractor to be on stand-by to facilitate the bypass pumping at these modified manhole locations. The Request for Proposal would solicit contractors for the aforementioned requisite services.

Motion by Vaara, supported by Miller, to authorize a Request for Proposals Solicitation for OMID Emergency/As Needed Bypass Pumping and Dewatering services to be posted on MITN and provide a recommended Contractor to the Board upon conclusion of the bid period.

AYES: Gregg, Miller and Vaara
NAYS: None

11. Other Business.
None.

12. Adjourn.

Motion by Vaara, supported by Miller, to adjourn the July 21, 2021 meeting at 12:52 p.m.

AYES: Gregg, Miller and Vaara
NAYS: None

Next Regular Meeting: August 18, 2021 at 11:30 a.m., Eastern Time. Due to the ongoing COVID-19 pandemic, the August meeting will be a hybrid format.

I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage Board, at a meeting held on July 21, 2021 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 21st day of July, 2021.

A handwritten signature in blue ink, appearing to read 'AV', is positioned above a horizontal line.

Anne Vaara for Jim Nash, Secretary
Oakland-Macomb Interceptor Drain Drainage Board

Agenda Item No. 4

Public Comment


Agenda Item No. 5

Flow Control Gate Operations Changes



Oakland-Macomb Interceptor Drain Drainage District

TO: Michael Gregg, Chairperson
Oakland-Macomb Interceptor Drain Drainage District

FROM: Flow Control Work Group  JTB

SUBJECT: Revised Control Structure Dewatering Sequence Settings Incorporating CS-9 Gate Addition

DATE: August 18, 2021

The purpose of this memorandum is to present revised OMID control structure dewatering settings as provided by John Michalski with Applied Science, Inc. (ASI) based on dewatering questions raised by Darin Gilbert with Motor City Electric Technologies (MCET) due in large part to the addition of Control Structure 9 (CS-9). The attached memorandum details the specific questions posed by MCET and ASI's responses to those questions. The responses prompt required gate setting changes that need to be implemented by MCET at each gate (specifically CS-5, CS-6, CS-7 and CS-9) to allow for streamlined dewatering of the system based on the conditions of the other gates and level sensor readings in the system. Revised storage relief curves for CS-5 and CS-9 are also provided along with depth-volume curves for CS-3, CS-5 and CS-9. The Flow Control Work Group has reviewed the appended memorandum and agrees with the recommended changes. We also authorized MCET to implement the changes.

Recommended Action: Receive and file the appended memorandum from ASI regarding new control structure gate settings to allow for more streamlined dewatering of the OMID system.



MEMORANDUM

To: Sid Lockhart, OCWRC
Joel Brown, OCWRC
Stephen Downing, MCPWO

From: Paul Szlaga, P.E., Applied Science, Inc.
John Michalski, P.E., Applied Science, Inc.

Project: OMIDDD Support

Subject: Responses to Questions Regarding Gate Control Logic

Date: July 19, 2021

On June 16, 2021, Darin Gilbert of Motor City Electric Technologies Inc. asked questions regarding the logic for release mode of the control structures in the Oakland-Macomb Interceptor Drain (OMID) and Macomb Interceptor Drain (MID). This memorandum provides the answers from Applied Science, Inc. (ASI) for each of Mr. Gilbert's questions.

1. Question

I see that new CS#9 document lists the operation of CS#5 to be open when CS#9 has 541 elevation and close when CS#9 has 543 elevation. If CS#9 does not happen to be used, should CS#5 retain its original release curve logic?

Answer

If CS-9 is not being utilized, the CS-9 gates must be set in a fully open position for the duration of the storage procedure and CS-5 should follow its currently programmed release curve for release mode.

2. Question

The current release curve logic supports 250 CFS and 350 CFS. Should 150 CFS be added to CS#5 to match CS#9?

Answer

Yes. See Table 1 for the curve points.

3. Question

For CS#6 for example, it will have different release parameters depending on if CS#5 is being used. Question is what determines if CS#5 is being used? I propose CS#5 gate not fully open at the instant CS#6 is put into release mode. Of course that leads to issues of CS#5 is having sensor issues, but with the ability to select from 3 different sensors, I think the gate open signal should be robust enough.

Answer

Whether CS-5 will be utilized must be selected prior to initiating a storage procedure. If CS-5 is not being utilized, its gates must be set in a fully open position for the duration of the storage procedure. CS-6 should be set with the following release mode logic:

- **CS-5 is being utilized:**
 - o OPEN if CS-5 upstream level is less than 554 ft.
 - o CLOSE if CS-5 upstream level is greater than 556 ft.
- **CS-5 is not being utilized:**
 - o OPEN if CS-9 upstream level is less than 541 ft.
 - o CLOSE if CS-9 upstream level is greater than 543 ft.

While the Segment 5 and 6 work is occurring, it is intended that storage procedures will not utilize CS-5.

4. Question

Why are we using CS#6 gate percentage open to control CS#7? Why don't we just use level upstream of the gate like the others? I know we have always done it that way, but this could be our chance to make it right.

Answer

The original control logic memo from ASI, *Sluice Gate Operation for Flow Control* dated August 2, 2011, did not consider CS-6 as an option for storage. The original purpose of CS-6 was to isolate and drain via pumping the reach between CS-7 and CS-6. CS-6 was not intended to be used for the storage of forward water like the other control structures; however, it is able to serve this purpose.

The logic for how CS-7 follows CS-6 during release was added later by others. Percent open of CS-6 was likely chosen as the control parameter since the upstream level sensor at CS-6

currently gets submerged during storage procedures and the readings become unreliable. The upstream level sensor at CS-6 would need to be modified and/or raised if it were to be used for CS-7 movement decisions.

Whether CS-5 will be utilized must be selected prior to initiating the storage procedure. If CS-5 is not being utilized, its gates must be set in a fully open position for the duration of the storage procedure. CS-7 should be set with the following release mode logic:

- **CS-5 is being utilized:**
 - o OPEN if CS-6 Gate is greater than 50% --**AND**-- CS-5 upstream level is less than 554 ft.
 - o CLOSE if CS-6 Gate is less than 40% --**OR**-- CS-5 upstream level is greater than 556 ft.
- **CS-5 is not being utilized:**
 - o OPEN if CS-6 Gate is greater than 50% --**AND**-- CS-9 upstream level is less than 541 ft.
 - o CLOSE if CS-6 Gate is less than 40% --**OR**-- CS-9 upstream level is greater than 543 ft.

In practice, by the time CS-6 has reached 50% open, the relatively small storage volume between CS-6 and CS-7 has been completely released. Therefore, the release of CS-7 is generally following the upstream depth at CS-5 or CS-9.

Waiting for CS-6 to get to 50% open does delay the opening of CS-7 as it takes about 1.5 hours for CS-6 to reach this point. A control based on the upstream depth at CS-6 could allow CS-7 to start releasing slightly sooner. However, with the current control logic, the system is ultimately able to release its storage before the next day and that is what matters as far as the expediency of the release.

5. Question

Also there has never been any more discussion about some of the issues brought up in the OMID Flow Control Work Group.

- A) Boundaries will be programmed for release set points, recommendations from ASI.
- B) Fail safe programming of release when d/s gates are closed and fail safe when comm are lost between gates.

Although I see Steve Rozycki and Darin Gilbert were tasked with these. Maybe not your responsibility. Except for the mention of ASI.

Answer

ASI is currently working on the release set point boundaries memo.

6. Question

As a bit of work will be done at all structures, now would be the best time to address these?

Answer

Yes.

7. Question

A long-long time ago I believe we experienced an issue with the upstream level sensor at CS#5. It spiked up when the gate was opening, causing the gate to close again and all kinds of fuss. The direction given to me was when the level upstream of CS#5 falls below 8 feet, just force open the gate at a controlled fixed rate. I think this was a bandaid. Should we continue to use this? CS#9 is being designed more-or-less as a copy of CS#5. Should CS#9 incorporate this?

Answer

Yes, though the level we recommend this begins to occur at 7 ft for both such that by 6 ft the gate are completely open. See Table 1 and 2 for the release curves.

8. Question

For the other control structures, we calculate the volume of storage behind the gate. And with the change in that volume, we calculate flow. And with flow we calculate time to overtop.

Do you have a 'depth – storage' curve like those on in the attached document so that we can make the storage calculation?

Answer

The depth-storage curves have been recomputed for CS-3, CS-5, and CS-9 to account for lining work and are presented in Table 3. Two curves are provided for CS-9 depending on whether CS-5 is being utilized for storage.

Table 1. Release Curves for CS-5

Upstream Depth (ft)	Percent Open to Target 150 cfs	Percent Open to Target 250 cfs	Percent Open to Target 350 cfs
>=29.6	14.0%	23.5%	33.1%
27.1	14.7%	24.6%	34.6%
24.6	15.4%	25.9%	36.4%
22.1	16.3%	27.4%	38.6%
19.6	17.4%	29.2%	41.1%
17.1	18.6%	31.4%	44.3%
14.6	20.2%	34.2%	48.5%
12.1	22.4%	37.9%	54.1%
9.6	25.4%	43.4%	62.5%
8.1	27.9%	48.2%	70.4%
7.0	30.4%	53.2%	100.0%
6.0 and less	100.0%	100.0%	--

Table 2. Release Curves for CS-9

Upstream Depth (ft)	Percent Open to Target 150 cfs	Percent Open to Target 250 cfs	Percent Open to Target 350 cfs
>=20	17.2%	28.8%	40.7%
19.6	17.4%	29.2%	41.1%
17.1	18.6%	31.4%	44.3%
14.6	20.2%	34.2%	48.5%
12.1	22.4%	37.9%	54.1%
9.6	25.4%	43.4%	62.5%
8.1	27.9%	48.2%	70.4%
7.0	30.4%	53.2%	100.0%
6.0 and less	100.0%	100.0%	--

This information will be used to improve the gate controls and logic in the OMID/MID system. If acceptable the memorandum should be passed on to MCET for implementation and be incorporated into the O&M of the system.

Table 3. Depth-Storage Curves

CS-3

Invert = 548.94 ft-NAVD88
Top of Wall = 563.80 ft-NAVD88
Sluice Gates = (2) 4'H x 2'W

Upstream Depth at CS-3 (ft)	Storage Upstream of CS-3 (mcf)
0	0
1	12
2	57
3	136
4	245
5	379
6	535
7	707
8	889
9	1,074
10	1,255
11	1,424
12	1,561
13	1,660
14	1,736
15	1,802

CS-5

Invert = 537.22 ft-NAVD88
Top of Wall = 561.00 ft-NAVD88
Sluice Gates = (2) 5'H x 2'W

Upstream Depth at CS-5 (ft)	Storage between CS-5 and CS-3 (mcf)
0	0
1	3
2	15
3	41
4	83
5	143
6	220
7	316
8	428
9	551
10	679
11	826
12	1,011
13	1,224
14	1,439
15	1,645
16	1,833
17	1,997
18	2,125
19	2,215
20	2,258
21	2,270
22	2,270
23	2,270
24	2,270

CS-9

Invert = 528.30 ft-NAVD88
Top of Wall = 548.00 ft-NAVD88
Sluice Gates = (2) 5'H x 2'W

Upstream Depth at CS-9 (ft)	Storage between CS-9 and CS-3 (mcf)	Storage between CS-9 and CS-5 (mcf)
0	0	0
1	3	3
2	15	15
3	39	39
4	77	77
5	131	131
6	200	200
7	286	286
8	389	389
9	507	507
10	639	636
11	782	765
12	929	885
13	1,078	991
14	1,228	1,080
15	1,390	1,163
16	1,564	1,240
17	1,746	1,308
18	1,923	1,361
19	2,087	1,398
20	2,258	1,419

Agenda Item No. 6

Engineering Work Order



Oakland-Macomb Interceptor Drain Drainage District

**TO: Michael Gregg, Chairperson
Oakland-Macomb Interceptor Drain Drainage Board**

**FROM: Joel Brown, P.E. Oakland County Water Resources Commissioner's Office
Stephen Downing, P.E. Macomb County Public Works Commissioner's Office**

**SUBJECT: NTH EWO for As-Needed OMID Rehabilitation Contract Closeout, and
NESPS/NI-EA Repair and Inspection Services**

DATE: August 18, 2021

NTH has continued to perform additional as-needed and/or out-of-scope services for the close-out phases of the Oakland-Macomb Interceptor Drain (OMID) Rehabilitation Program and Northeast Sewage Pumping Station (NESPS) maintenance tasks. With regard to closeout activities, NTH has spent additional effort on Contract 3, Northeast Sewage Pumping Station (NESPS) Discharge Chamber Rehabilitation Project and Contract 7 PCI-4 Emergency Rehabilitation, which were expected to conclude in the third quarter of 2019. As the OMIDDD Board is aware, the OMID Team has discovered premature failure of the EcoCast Liner within the first 110 feet of PCI-4 downstream of the station as well as the Tnemec coating within the NESPS Discharge Chamber. Both of these discoveries have led to the inability to close out the projects and has prompted additional investigation and design needs. In addition, as part of the discovery of additional sediment within the NESPS wet well after cleaning it in first quarter 2021, there is further need to continue wet well sediment checks. This is necessary to verify the sediment load is stable and is not accumulating (which could be indicative of an upstream sinkhole forming). With the aforementioned required activities, NTH has prepared the attached July 12, 2021 proposal to address these out-of-scope services as follows:

Task 1: OMID Contract 3 NESPS Rehabilitation Closeout: This task includes all of the remaining project CCA closeout services to wrap-up OMID Contract 3 NESPS Rehabilitation Project.

- Under this task, the NTH team will provide general CCA services including follow up with the Contractor on Discharge Pipe Manifold Tnemec Coating failure, conduct as-needed meetings to coordinate project closeouts, preparation of final change order and close-out documents, and process Contractor final pay application.

Task 2: OMID Contract 7 PCI-4 Emergency Rehabilitation Liner Deterioration Closeout: Evaluate the premature deterioration of the first 110 feet of the NI-EA interceptor downstream of the NESPS Discharge Chamber lined using a spray-on (EcoCast) liner in 2016.

- This task includes general CCA services including follow up with the Contractor and Liner Manufacturer on EcoCast liner deterioration, coordinate field inspection requests by the Contractor, participate in liner field inspection services with the Contractor and liner manufacturer, issue field report(s) with photos, and conduct as-needed meetings to coordinate project closeouts.

Task 3: Discharge Pipe Manifold Coating Rehabilitation: The NESPS Discharge Pipe Manifold system was installed by Inland Water Pollution Control (IWPC) as part of OMID Contract 3 NESPS Rehabilitation project. Inspections conducted in 2019 and 2021 revealed significant Tnemec coating failure at various locations in the system. NTH and the OMID design team shall investigate potential viable options to line the manifold system and pre-approve up to 5 products for OMIDDD to consider through a solicitation process.

Task 4: NESPS Wet Well Sediment Level Survey: Due to the unanticipated increase of wet well sediment after cleaning earlier this year, we have requested the services of Anderson, Eckstein & Westrick (AEW) to conduct the sediment level inspections of the NESPS through December 2021.

The associated fees for the above tasks are as follows:

1. OMID Contract 3 NESPS Rehabilitation Closeout	\$9,563
2. OMID Contract 7 PCI-4 Emergency Rehabilitation Liner Deterioration Closeout	\$10,939
3. Discharge Pipe Manifold Coating Rehabilitation	\$27,930
4. NESPS Wet Well Sediment Level Survey	\$19,639
Total:	\$68,071

An Engineering Work Order has been created to modify the existing contract to include these services and increase the existing contract by a not-to-exceed amount of \$68,071. There is sufficient funds in the OMIDDD capital improvement (Task 1,2,3- \$48,432) and major maintenance reserves (Task 4-\$19,639) to cover these costs.

Requested Action: Approve the attached Engineering Work Order to increase contract #2603 by a not-to-exceed amount of \$68,071. Authorize \$48,432 to be taken from the OMIDDD Capital Improvement reserves and \$19,639 to be taken from the Major Maintenance Reserves to cover these expenses.

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

No. -

ENGINEERING WORK ORDER

FOR: Additional OMID Rehabilitation Program Closeout Services and As-Needed NESPS Maintenance Tasks

Amendment to Contract #2603 For Additional Professional Services

TO: NTH Consultants, Ltd.

DATE: 8/9/21

DESCRIPTION**Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit D – Estimated Fees**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the Oakland-Macomb Interceptor Drain (OMID) Rehabilitation Program Closeout and Northeast Sewage Pumping Station (NESPS) maintenance activities that falls under the aforementioned sections of contract #2603. This EWO serves as your approval for compensation of the following additional services as delineated in your July 12, 2021 proposal.

A. OMID Rehabilitation Program Closeout

Task 1: OMID Contract 3 NESPS Rehabilitation Closeout: This task includes all of the remaining project CCA closeout services to wrap-up OMID Contract 3 NESPS Rehabilitation Project.

- Under this task, the NTH team will provide general CCA services including follow up with the Contractor on Discharge Pipe Manifold Tnemec Coating failure, conduct as-needed meetings to coordinate project closeouts, preparation of final change order and close-out documents, and process Contractor final pay application. Assume to conduct/facilitate three (3) meetings with the Owner and Contractor.

Task 2: OMID Contract 7 PCI-4 Emergency Rehabilitation Liner Deterioration Closeout: Evaluate the premature deterioration of the first 110 feet of the NI-EA interceptor downstream of the NESPS Discharge Chamber lined using a spray-on (EcoCast) liner in 2016.

DESCRIPTION (Cont'd)**Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit D – Estimated Fees**

- This task includes general CCA services including follow up with the Contractor and Liner Manufacturer on EcoCast liner deterioration, coordinate field inspection requests by the Contractor, participate in liner field inspection services with the Contractor and liner manufacturer, issue field report(s) with photos, and conduct as-needed meetings to coordinate project closeouts. Assume to conduct/facilitate three (3) meetings with the Owner, Contractor, and Liner Manufacturer.

Task 3: Discharge Pipe Manifold Coating Rehabilitation: The NESPS Discharge Pipe Manifold system was installed by Inland Water Pollution Control (IWPC) as part of OMID Contract 3 NESPS Rehabilitation project. Inspections conducted in 2019 and 2021 revealed significant Tnemec coating failure at various locations in the system. NTH and the OMID design team shall look into potential viable options to line the manifold system.

Pre-approve rehabilitation technologies as follows:

- Develop a solicitation for pre-approval of technologies. This will involve preparation of a package including plan and profile of the lining areas, identifying potential access locations, and technical requirements of the final lining.
- Contact all the manufacturers that have been part of discussions to date (5 total), as well as any others that become apparent before the submission date. Conduct meetings with all interested manufacturers regarding general information on the project. Similar to a conventional bid process, answer questions and issue addendums/responses to the pre-solicitation to interested manufacturers, as necessary.
- Anticipate receiving and reviewing no more than 5 liner manufacturer submittals. Once the submittals are received, review the final submittals, and as necessary communicate to the manufacturers any information that is not clear and/or requires additional support. Review and evaluate all the combined information for each submittal and pre-approve the products that meet the requirements.
- After evaluating the submittals, NTH will issue a memorandum detailing Engineer's recommendation to OMIDDD.

Task 4: NESPS Wet Well Sediment Level Survey: Due to the unanticipated increase of wet well sediment level after cleaning earlier this year, OMIDDD has requested the services of Anderson, Eckstein & Westrick (AEW) to conduct the sediment level inspections of the NESPS through December 2021. This task will include the following.

- Based on previous survey efforts, the sediment level survey requires a 3-man confined space entry crew with some additional contract administration costs for project coordination and notification.

DESCRIPTION (Cont'd)**Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit D – Estimated Fees**

- It is anticipated that that the sediment level checks will be performed every month and coordinated by METCO Services. This EWO will cover the costs to perform the monthly survey from June through December, 2021.

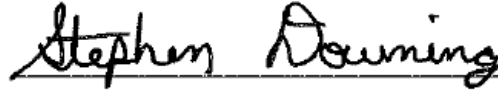
The associated fees for the above tasks are as follows:

1. OMID Contract 3 NESPS Rehabilitation Closeout	\$9,563
2. OMID Contract 7 PCI-4 Emergency Rehabilitation Liner Deterioration Closeout	\$10,939
3. Discharge Pipe Manifold Coating Rehabilitation	\$27,930
4. NESPS Wet Well Sediment Level Survey	\$19,639
Total:	\$68,071

Fees for this Engineering Work Order shall be billed on a time and material basis according to the contract standard fee and rate schedule as modified by your proposal. The total amount of the Engineering Services Agreement is to be increased by a not to exceed amount of \$68,071. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.

PREPARED DATE: 8/9/21

By: Joel Brown, P.E.
Project Engineer
OCWRC

RECOMMENDED DATE: 8/12/2021

By: Stephen Downing, P.E.
Construction and Maintenance Manager
MCPWO

ACCEPTED DATE: 08.12.2021

By: Jeff Jaros
President/Chief Operating Officer
NTH Consultants, Ltd.

APPROVED DATE: 8/13/2021

By: Sid Lockhart, P.E.
Special Projects Manager
OCWRC

Approved by Drainage Board on: _____

Agenda Item No. 7

Change Orders

CHANGE ORDER NO. FOURTEEN

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**(CMAR)****Walsh Construction Co. II, LLC**

Authorization for: 1.) Fire and Arc Protection for exposed 24 kv Electrical Cables in Manholes; 2.) Provide "Chesterton Mechanical Seals" in lieu of standard seal packing for the main Sewage Pumps; 3.) Repair deteriorated site perimeter fence and provide a 3' Pedestrian Gate for emergency site entry; 4.) Repair water infiltration in Pump # 1 Discharge Piping; 5.) Upgrade plumbing fixtures in the existing NESPS Service Water System; 6.) Furnish and install steel road plate and maintenance aggregate over existing Fiber Optics underground conduit; 7.) Provide credit adjustment for CMAR markup on previous Change Order Items.

Address:

Walsh Construction Co. II LLC

3031 West Grand Blvd., Suite 640

Detroit, MI 48202

Change Order No. 14 Date: July 27, 2021; Rev.8-6-21

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
14- #1	-- Location-- Northeast Sewage Pumping Station Detroit, Wayne County, Michigan					
	DESCRIPTION (Extra/Add): Furnish and install "Fire and Electric Arc Proofing Tape" on exposed portions of the redundant circuit 24 kv power cables in the seven site electric manholes. REASON: Installation of this additional precautionary measure helps to ensure the protection of adjacent power cables should one cable experience arc or fire damage. An insulated firewall is provided by the "Fire and Arc proofing Tape" that acts as a flame and insulating barrier thereby protecting other cables and accessories in the manholes.	LS	1 ea.	\$11,103.73	\$11,103.75	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 14

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
14-1	<p>Given the importance of the newly installed primary cables, this installation was considered to be of significant value.</p> <p>Attachment: Walsh Construction PCI No.970077</p>					
14-#2	<p><u>DESCRIPTION (Change/ Add):</u></p> <p>Provide "Chesterton" Mechanical Seals upgrade for the main pump shafting for proposed Sewage Pumps Nos. 1, 2, 3, 5, and 6.</p> <p><u>REASON:</u></p> <p>The proposed main sewage pumps were designed to accept a standard shaft packing detail that prevents the pumped fluid (sewage) from escaping around the rotating drive shaft, but also accept alternative type seals. Further review of the details of the optional "Chesterton" split mechanical seals indicated significant long term advantages will result with this upgrade.</p> <p>Longer seal life, reductions in routine maintenance, eliminated leakage with resulting elimination of environmental cleanup tasks, and improved performance of shaft bearings due to reduced contamination from fluid (sewage) leaks are amongst the anticipated benefits.</p> <p>Addressed also in the total additional cost is a credit for the deletion of the originally specified conventional packing details.</p> <p>Attachments; Walsh Construction PCI No.970080</p>	LS	1 ea.	\$103,163.15	\$103,163.15	-0-
14-#3	<p><u>DESCRIPTION: (Extra/ Add):</u></p> <p>Remove approx. 23 lf of existing deteriorated site perimeter fencing on the south (State Fair Ave,) fence line, and replace with new fencing and posts ,including a 3' wide Pedestrian Emergency Entry Gate.</p>	1	LS	\$5,553.99	\$5,553.99	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 14

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
14-3	<p><u>REASON:</u></p> <p>The replacement of a minor length of deteriorated site fence adjacent to the main NESPS driveway entrance gates afforded an opportunity to also install a 3' wide pedestrian gate that can be used for emergency site entry when the main motor activated sliding gate is temporarily inoperable.</p> <p>The proposed pedestrian gate will allow an NESPS facility operator and/or emergency crews an alternative means to enter the site and manually override the motorized main gate thereby allowing vehicular access to the site</p> <p>Attachment: Walsh Construction PCI No. 970088</p>					
14-#4	<p><u>DESCRIPTION (Extra/ Add):</u></p> <p>Repair water infiltration into the Pump # 1 wall embedded discharge piping prior to installation of interior pipe lining improvements.</p> <p><u>REASON:</u></p> <p>The segment of the original Sewage Pump # 1 steel discharge piping that is embedded in the NESPS exterior (caisson) wall is severely deteriorated and planned for rehabilitation using a Quakewrap Carbon reinforced polymer lining product. The initial work on this task for Pump # 1 exposed discrete areas of corrosion where "rust-through" had occurred allowing groundwater under significant head pressure to infiltrate into the pipe interior. This infiltration prevented application of the proposed polymer liner and required multiple techniques to eventually seal the leakage thereby allowing lining work to continue.</p> <p>The cost of this effort includes the specialized grouting efforts required to seal the infiltration and also the delay time incurred by the specialty lining sub-contractor.</p> <p>Attachment: Walsh Construction PCI No. 970081</p>	LS	1 ea.	\$45,012.89	\$45,012.89	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 14

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
14- #5	<p><u>DESCRIPTION: (Extra/ Add):</u></p> <p>Remove and replace existing aged and/or inoperable plumbing fixtures in the NESPS Service Water System.</p> <p><u>REASON:</u></p> <p>The various service water (i.e. treated, but considered non-potable) outlets ("Hose Bibs") located throughout the NESPS are generally of original (1970) construction and were largely inoperable and in need of major repair. Upon evaluation, it was determined that the most cost effective solution was to remove the fixtures in entirety and replace with updated equipment.</p> <p>In addition, the plumbing fixtures in the building Lavatory area and the adjacent Janitorial Closet were of similar condition and were also determined as appropriate candidates for full replacement. This equipment includes the full upgrade of the lavatory sink, tankless hot water heater, toilet commode, Janitor's mop sink, emergency shower head, drinking fountain, and related accessories as required for plumbing code installations.</p> <p>Attachment: Walsh Construction PCI No. 970083</p>	LS	1 ea.	\$36,385.40	\$36,385.40	-0-
14- 6	<p><u>DESCRIPTION (Extra/ Add):</u></p> <p>Furnish and install one ea. additional steel road plate (8'x20'x1") with adjacent aggregate surface (21AA limestone) over existing GLWA underground Fiber Optics conduit.</p> <p><u>REASON:</u></p> <p>The primary underground direct-bury fiber optics cable leading from the NESPS to the GLWA Water Treatment plant provides for the main communication with the GLWA Ovation System and is considered of major importance to maintain in uninterrupted operation. The cables are contained in shallow, non-encased conduit which is susceptible to damage from construction traffic.</p>	LS	1 ea.	\$14,069.61	\$14,069.61	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 14

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
14-6	<p>The initial segments of this conduit were previously protected with steel road plates at site construction roadways, however, with the completion of additional elements of new construction, further portions of the fiber optics line were exposed to possible damage.</p> <p>This additional work provides extended protection of this communications line until new construction replaces the existing line, thereby allowing for its eventual abandonment.</p> <p><i>(Note: At the conclusion of this task, the steel road plate will become the property of the OMID DD and be available for future use elsewhere as needed.)</i></p> <p>Attachment: Walsh Construction PCI # 970086</p>					
14-7	<p><u>DESCRIPTION (Change/ Credit):</u></p> <p>Provide a correction (credit) to the Contract value resulting from previous change order markup adjustments.</p> <p><u>REASON:</u></p> <p>As described below, certain previous Change Order deductive Items did not include a corresponding reduction for the Construction Manager's normal markup (5.75%) in the calculation. The basis for this adjustment is as follows:</p> <p>C.O. 11, Item 11-2 (\$900,000.00)</p> <p>C.O. 11, Item 11-6 (\$2,261.00)</p> <p>Total: (\$902,261.00)</p> <p>5.75 % CMAR Markup = (\$51,880.08)</p>	LS	1 ea.	(\$51,880.08)	-0-	(\$51,880.08)

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 14

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
	<p align="center">*****</p> <p align="center">End of Items for Change Order No. 14</p>					
					Amount Increase	Amount Decrease
				Totals	\$215,288.79	(\$51,880.08)
				Net Changes (Increase)	\$163,408.71	-----

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 14

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

Date: 201-8-06-2021

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

Date: 8/9/2021

Approved By:
Joel Brown, P.E.
Project Manager, WRC

Date: 8/11/21

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

Date: 8/11/2021

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

Date: 8/13/2021

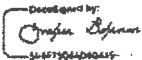
Approved by:
Steve Korth, P.E.
Manager, WRC

Date: _____

All of 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:

Decided by:

SHAFTS004000015

Title Vice President

Date Aug-09-2021 | 7:16 AM CDT

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. 14 was approved by the Drainage Board on: Date:

CHANGE ORDER NO. Three; Control Structure 9
Oakland Macomb Interceptor Drain, Drainage District (OMIDDD)
OMID PCI-5 Interceptor
For Construction of the Control Structure 9 (CS-9) Gate Installation
Located in the City of Warren, Macomb County, Michigan

Authorization for:

- 1.) Transport, unload, and store Shaft Ventilation Fans and accessories; 2.) Adjust the final elevation of the Upstream Level Sensor to avoid interference with the bulkhead gate installation; 3.) Perform additional pavement removal and replacement on westbound Ten Mile Rd. at the CS-9 driveway approach entrance.

CONST.

MANAGER: **Walsh Construction Co. II, LLC**

Address: 3031 West Grand Blvd., Suite 640
Detroit, MI 48202

Date: July 28, 2021

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
CS9 3-1	<p><u>LOCATION:</u></p> <p>CS-9 is located in the ITC Corridor, north of Ten Mile Rd. in the City of Warren, Macomb County, MI.</p> <hr/> <p><i>Commentary on Change Order Identification:</i></p> <p><i>While administratively a part of the overall Construction Manager at Risk agreement for the "Northeast Sewage Pumping Station, Pump & Electrical Upgrades Project", changes to the Contract Cost and/ or Times specifically involving Control Structure 9 (CS-9) will typically be identified in this supplemental Change Order documentation.</i></p> <p><i>Procedurally, the CS-9 changes will be included in a "Change Order Appendage" with the main NESPS Pump & Electrical Upgrades Project Change Orders and will be identified accordingly.</i></p> <p><i>The reason for this change order identification is primarily for purposes of accounting and payment application clarity.</i></p> <hr/> <p><u>DESCRIPTION (Extra/ Add):</u></p> <p>Provide compensation to the mechanical sub-contractor for</p>					
		1	LS	\$2,160.32	\$2,160.32	-0-

OMID DD Control Structure 9 Gate Installation; C.O. # 3

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
CS9 3-1	<p>work related to the transportation, handling, and storage (in the NESPS Equipment area) of Ventilation fans used for CS-9 shaft ventilation during construction and deemed surplus by the Contractor.</p> <p><u>REASON:</u></p> <p>The mechanical sub-contractor (DeCal) for the CS-9 project acquired new ventilation supply fans specifically for use at the CS-9 structure during construction. At the conclusion of the project, the fans were deemed surplus by the Contractor and were offered to the OMID DD without cost other than charges for transportation, handling, and storage setup at the NESPS OMID Tool Crib facility.</p> <p>This relatively near-new equipment is now available for future use by the OMIDD DD as needs may arise.</p> <p>Attachment: Walsh Construction Cost Summary No. PCI 970084</p>					
CS9 3-2	<p><u>DESCRIPTION (Change/ Add):</u></p> <p>Following the initial installation, the Upstream Level Sensor at CS-9 was adjusted in elevation to avoid readout interference with the newly installed bulkhead gate in addition to potential damage from high interceptor flow levels.</p> <p><u>REASON:</u></p> <p>The accurate readout information received from the CS-9 Level Sensor is critical to OMID Flow Control Management planning, and while installed in accordance with plan location, the sensor readout was found to be affected by the adjacent bulkhead elevation. The device was relocated to a higher elevation, verified for accurate readout information, and placed into service.</p> <p>Due to the inherent design of the CS-9 structure, limited safe working access required the use of a crane and man-basket which resulted in increased costs to perform the relocation task.</p> <p>Attachment: Walsh Construction PCI 970082</p>	1	LS	\$8,887.23	\$8,887.23	-0-

OMID DD Control Structure 9 Gate Installation; C.O. # 3

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
<p>CS9 3-3</p>	<p><u>DESCRIPTION (Extra/ Add):</u></p> <p>Perform additional concrete pavement removal and replacement of a portion of the westbound Ten Mile Rd. curb lane, per Macomb County Dept. of Roads requirements.</p> <p><u>REASON:</u></p> <p>The proposed concrete driveway entrance to the CS-9 site abuts the existing curb lane of westbound Ten Mile Rd. The existing portion of Ten Mile Road is deteriorated as a result of normal traffic aging unrelated to the CS-9 project, however, the Macomb County Dept. of Roads protocols do not allow new driveway entrance pavement to join existing county roadway pavement that is in poor structural condition. When encountered, the deteriorated pavement must be removed until sound pavement limits are reached, followed by replacement "in kind" with new pavement, at the expense of the driveway approach Owner.</p> <p>At the CS-9 site, this requirement resulted in the removal and replacement of approx. 27.1 syd. of 8" non-reinforced (N.R.) concrete pavement, combined with approx. 6.0 syd. of 8" N.R. concrete pavement with monolithic curb and gutter. Also included in this task is additional pavement sawcut and extended traffic control requirements.</p> <p>The additional cost for this work was compared to recent (2021) MDOT average unit prices for similar items, and was determined to be commensurate for like-size projects.</p> <p>Attachment: Walsh Construction PCI 970087, Rev. 1</p> <p align="center">*****</p> <p>End of Change Order Three, Control Structure 9</p>	1	LS	\$9,004.00	\$9,004.00	-0-

OMID DD Control Structure 9 Gate Installation; C.O. # 3

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
					Amount Increase	Amount Decrease
				Totals	\$20,051.55	-0-
				Net Changes : Add	\$20,051.55	-0-

END OF CHANGE ORDER NO. CS9 – No. Three, ITEMIZED DESCRIPTIONS

OMID DD Control Structure 9 Gate Installation; C.O. # 3

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

Date: 8-03-2021

Recommended By:
Saju Sachidanandan, P.E.
Engineer of Design, NTH Consultants, Ltd.

August 09, 2021

Approved By:
Joel Brown, P.E.
Project Manager, WRC

Date: 8/11/21

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

Date: 8/11/2021

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

Date: August 12, 2021

Approved by:
Steve Korth, P.E.
Manager, WRC

Date:

All of Contractor'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 Contractor agrees to do the work described above and agrees to accept Contract time adjustments in full on the basis indicated.

Accepted by:

DocuSign
Signature
589773087050413

Date Aug-09-2021 | 7:16 AM CDT

Title Vice President

of: Walsh Construction Co. II, Inc.

The Contractor 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. CS9 # 3 was approved by the Drainage Board on: Date:

Agenda Item No. 8

Construction Estimates

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the Odor / Corrosion Control System- Northeast Sewage Pumping Station
Located in the City of Detroit, Wayne County, Michigan
Project ID 100000002708

Regular Construction Estimate No. Seventeen (Final)

Jan. 01, 2021 through July 30, 2021

Department No.: 6010101
Fund No.: 84915
Project No.: 295117

Account No.: 731472
Program No.: 149015
Activity: FAC

Contractor:
CSM Mechanical, LLC
7400 Hickory Valley Dr.
Fenton, MI 48430

Contract No. # 5777

Date of Contract: July 3, 2019
Final Completion Date: September 27, 2020
Extended to: July 30, 2021

Original Contract Amount:		\$3,783,390.00
Previous Change Orders:	CO# 1,2,3,4,5,6,7,8, and 9	\$409,296.74
Change Orders This Estimate:	No. Ten (Final)	\$75,407.80
Total Net Change Orders:		\$48,704.55
Adjusted Contract Amount:		\$4,268,094.55
Sub-Total To Date:		\$4,268,094.55
Less Deductions:		None
Gross Estimate: (Work in Place)	100.0 % Complete	\$4,268,094.55
Less Amount Reserved : Lump Sum	None	\$0.00
Total Amount Allowed To Date:		\$4,268,094.55
Less Previous Estimates:		\$4,145,042.00
Net Payment Request To Be Paid To Contractor:		\$88,347.25
Reserve Payment to Contractor (Final)		\$34,705.30
Balance to Finish : \$0.00	Accounting Auditor: <i>Jeffrey A. Ragle</i>	
Amount To Be Reserved (From Above)		\$0.00
Less Previous Transfers To Reserve:		\$0.00
Amount of Current Transfer: Final Release of Reserve to Contractor		(\$34,705.30)

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

Date: *7-09-2021*

FOR Recommended by: *Jason Matteo*
Jason Matteo, P.E.; Jacobs

Date: *8/5/2021*

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

Date: *8/11/21*

Recommended by: *Stephen Downing*
Stephen Downing; Macomb County OPWC

Date: *8/11/2021*

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

Date: *8/13/2021*

Regular Construction Estimate No. Seventeen (Final)

Approved By Board On:

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. Ten

Page One of Two

July 01, 2021 through July 31, 2021

Department No.:	6010101	Account No.:	731472
Fund No.:	84917	Program No.:	149015
Project No.:	1-3309	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		Final Completion Date:	July 28, 2023
Detroit, MI 48202	Contract No. 5977		

Orig. GMP amount for Pump & Elec. Upgrades Project, not including CS-9 and Pre-Const. Balance	\$44,107,745.18
Expended Pre-Construction Phase Amount	(\$1,174,363.30)
Unused Pre-Construction Phase Budget	(\$70,196.70)
CS-9 Budget from GMP	(\$3,251,117.72)
NESPS Pump & Elec. Upgrades Original Contract Budget	\$39,612,067.46
Change Orders, This Estimate: C.O.# 13	\$202,705.55
Previous Change Orders: (C.O. # 7 , 8, 9, 10, 11, and 12), including C.O. 11, Item 11-7 (\$4,717.51)	\$862,186.64
Unused Pre-Construction Phase Budget	\$70,196.70
Adjusted Construction Contract Amount:	<u>\$40,539,733.29</u>
Sub-Total To Date: (CS-9 Costs are Not included on this Estimate)	\$12,127,665.80
Less Deductions:	None
Gross Estimate: (Work in Place) Complete = 29.9%	\$12,127,665.80
Less Amount Reserved (10%)	\$1,212,766.58
Total Amount Allowed To Date:	\$10,914,899.22
Less Previous Estimates:	\$9,865,224.85
Current Payment Due	\$1,049,674.37
Reserve Payment to Contractor: None	\$0.00
Balance to Finish: \$28,412,067.49	
Accounting Auditor: <i>Jeffrey A Ragle</i>	
Amount To Be Reserved (From Above)	<u>\$1,212,766.58</u>
Less Previous Transfers To Reserve (N/I C-9 Reserve)	\$1,096,136.10
Amount of Current Transfer	<u>\$116,630.48</u>

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. Ten
Page Two of Two

07/01/ 2021 through 07/31/ 2021

Prepared by: 

Date: Aug. 05, 2021

Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.

Recommended by: 

Date: 8/10/2021

John Michalski, P.E., ASI

Recommended by: 

Date: 8/11/21

Joel Brown, P.E. Oakland County WRC

Recommended by: Stephen Downing

Date: 8/11/2021

Stephen Downing; Macomb County OPWC

Approved for Payment by: 

Date: 8/13/2021

Sid Lockhart, P.E.; Special Projects Manager, Oakland County WRC

Regular Construction Estimate No. 10 (July, 2021)

Approved By Board On: _____

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the Control Structure 9 Gate Installation
Located in the City of Warren, Macomb County, Michigan
Project ID 1-3308

Regular Construction Estimate No. 8 (CS-9 Gate Installation)

July 01, 2021 through July 31, 2021

Department No.: 6010101
Fund No.: 84917
Project No.: 514263

Account No.: 730352
Program No.: 149015
Activity: FAC

Construction Manager at Risk,
Walsh Construction Co.
3031 West Grand Boulevard, Suite 640
Detroit, MI 48202

Vendor # 23191

Contract No. 5977

LI 43331; exp. 12/16/22
Date of Contract: Dec. 16, 2019
Final Completion Date: July 28, 2023

Original Construction Contract Amount: (CS-9 Gate Gate Installation)	\$3,251,117.72
Previous Change Orders: C.O. # 9-1, 9-2, and 11-7 (Including CO-11, Item 7 ; \$4,717.51)	\$12,646.67
Change Orders This Estimate: CS-9 C.O. # 2, Items 13-1 and 13-2)	\$30,402.07
Total Net Change Orders:	\$43,048.74
Adjusted Contract Amount:	\$3,294,166.46
Sub-Total To Date: (CS-9 Charges only are included on this Estimate)	\$2,999,027.87
Less Deductions:	None
Gross Estimate: (Work in Place) 91.0% Complete	\$2,999,027.87
Less Amount Reserved (10%)	\$299,902.79
Total Amount Allowed To Date:	\$2,699,125.08
Less Previous Estimates: Paid under NESPS Pump-Elec. Upgrade App # 7	\$2,605,212.31
Net Payment Request To Be Paid To Contractor:	\$93,912.77
Reserve Payment to Contractor:	\$0.00
Balance to Finish: \$ 295,138.59	Accounting Auditor: <i>Jeffrey A. Ragle</i>
Reserve Payment	\$299,902.78
Less Previous Transfers To Reserve:	\$289,068.03
Amount of Current Transfer	\$10,834.76

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

Date: *8-09-2021*

Recommended by: *Saju Sachidanandan*
Saju Sachidanandan, P. E.

Date: *8/9/2021*

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

Date: *8/11/21*

Recommended by: *Stephen Downing*
Stephen Downing; Macomb County OPWC

Date: *8/11/2021*

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

Date: *8/12/2021*

Regular Construction Estimate No. 8 (CS-9 Gate Installation)

Approved By Board On: _____

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. 5

Period: 07/01/21 through 07/31/21/

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

Contractor:
Marra Services, Inc.
700 E. 73 rd. Street
Cleveland, OH 44103

Vendor # 29656 Contract # 6323
LI # 44838 exp. 1/20/23

Date of Contract: January 21, 2021
Final Completion Date: September 9, 2022

Original Construction Contract Amount	\$14,732,510.00
Previous Change Orders: (None)	\$0.00
Change Orders This Estimate: (None)	\$0.00
Total Net Change Orders: (None)	\$0.00
Adjusted Contract Amount:	\$14,732,510.00
Sub-Total To Date	\$1,484,719.00
Less Deductions: None	\$0.00
Gross Estimate: (Work in Place) 9.96% Complete	\$1,484,719.00
Less Amount Reserved (10%)	\$148,471.90
Total Amount Allowed To Date:	\$1,336,247.10
Less Previous Estimates	\$1,320,497.10
Net Payment Request To Be Paid To Contractor:	\$15,750.00
Reserve Payment to Contractor:	\$0.00
Balance to Finish: \$13,247,791.	Accounting Auditor: <i>Jeffrey A. Ragle</i>
Amount to be Reserved from Above	\$148,471.90
Less Previous Transfers To Reserve:	\$146,721.90
Amount of Current Transfer	\$1,750.00

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

Date: *08-02-2021*

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

Date: August 06, 2021

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

Date: *8/11/21*

Recommended by: *Stephen Downing*
Stephen Downing; Macomb County OPWC

Date: *8/11/2021*

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

Date: *8/13/2021*

Regular Construction Estimate No. 5

Approved By Board On: _____

Agenda Item No. 9

**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
J. Matteo, P.E., Jacobs Engineering, Inc.

August 18, 2021 OMIDDD Board Meeting

The following provides a status update as of the writing of this report (August 5, 2021) 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 – Contract Extended to 5/15/2022

Engineering Consultant: Jacobs

Project Budget Summary (including EWOs):

- | | |
|---|--------------|
| • Adjusted Project Budget (including EWOs and Fan Testing Allowance): | \$567,447.00 |
| • Total Spent (through May 2021): | \$566,441.58 |

Status of Major Project Tasks:

- System-wide Odor/Corrosion Study and additional requested work is substantially complete. Final report to be issued following written final comments received in June 2021.
- Jacobs delivered on May 28, 2021 a draft technical memorandum that summarizes the NI-EA Phase 1 odor sampling recently performed at the NESPS and in PCI-4. The memorandum is currently under review.

SRF Segment 2 Status:

Contract 3 (Base Contract) – Complete, Closeout Pending

Construction Amt Invoiced: \$18,011,426.41, as adjusted by C.O. 11.

Schedule Status: Complete July 31, 2014; Overall Contract closeout will be combined with closeout for NESPS Discharge Chamber Emergency Repairs (CO 2-E, et al).

August 18, 2021 OMIDDD Board Meeting

Contract 3-2E thru 3-2J (NESPS Gatehouse): Substantially Complete

Construction Amt Invoiced: \$5,151,543.52 Invoiced to date including Change Order 2E through 2J.

Schedule Status: Substantially Complete on 11/25/17, with additional Gatehouse lining work performed under Change Order 2-I and completed on March 31, 2019.

Negotiations with Tnemec are ongoing following determination of failed coating. Contract 3 (Base Contract and Emergency Gatehouse Repairs) remains open pending resolution of this issue.

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, although deterioration recently noted (see NIEA Contract 1 Summary). A further manned inspection of PCI-4 adjacent to the NESPS gatehouse is planned for late August, 2021.

NESPS Odor/Corrosion Control System (No Segment or Contract No.) Construction Completed, Post-Construction Services Ongoing:

Engineering Consultant: LG Design, Inc., subsidiary of Jacobs

Prime Construction Contractor: CSM Mechanical, LLC

Project Budget Summary:

- CSM Mechanical, LLC (Adjusted Contract Value w/ CO No. 1 through CO No. 9): \$4,268,094.57
- CSM Balance to Finish w/ Retainage (PA No. 17, work through 7/12/2021): \$0.00
- CSM Mechanical, LLC Change Order #10 (Final CO Approved July 21, 2021): \$75,407.80
- CSM Mechanical, LLC (Final Contract Value, after final payment): \$4,268,094.54
- Jacobs Budget (Design and CA/RPR, per EWO No. 3): \$1,272,470.46
- Remaining Jacobs Budget (through July 2021): \$44,214.46

August 18, 2021 OMIDDD Board Meeting

Milestone Schedule Summary:

- Change Order No. 10 was executed during the July Board meeting to adjust the Final Completion of the Project from August 28, 2020 to July 31, 2021 which provides an increase of 337 calendar days. The date of Final Completion for the project is adjusted to reflect work added to the project and to account for final operating efficiency adjustments to both the Biotrickling Filter and the NESPS HVAC system. The project team continues to monitor the performance of the biotrickling filter system and the HVAC system throughout the warranty period.

Status of Major Project Tasks:

- All major work is complete, testing is completed, and the facility is in normal operating mode. Warranty issues with a 76-inch fabric duct in the wet well have been addressed by the Contractor. The WWMAU-2 is now fully operational.
- The final Change Order has been approved and the final Pay Application is pending.



Wet well make up air unit stainless steel duct elbows below deck (now complete)

August 18, 2021 OMIDDD Board Meeting

NESPS & OMID Maintenance & Repairs Status:

Amt Invoiced:

\$199,701 thru July, 2021 out of current \$353,000 ASI engineering budget; Does not include Metco budget for ongoing flow control, maintenance, and coordination.

Schedule Status:

Ongoing

Pump Outages

- Pump #1 remains out of service, being replaced as part of NESPS major upgrades.
- On July 20, 2021, Sanitary Pump #2 was removed from service until repairs could be made. This removal was performed due to mounting faults and failures in the VFD power cells, which could have contributed to catastrophic damage to equipment (per MCE). A certified field service representative was dispatched by Siemens on August 5, 2021 to assist in the installation of refurbished power cells delivered on August 4, 2021. Start up and testing of Sanitary Pump #2 to be performed on August 6, 2021. GLWA has been notified.
- On July 29, 2021, Sanitary Pump #5 suffered a catastrophic motor failure. Upon inspection significant damage to the stator was found. Preliminary repair findings suggest a complete re-wind of the stator is required. Two local repair shops submitted repair quotes to OMID for review. York Electric has been approved by OMID to expedite repairs ASAP. Pump will be ready to be transported to York on August 6, 2021, with an estimated turn-around time of 3 to 4 weeks. GLWA has been notified.
- Pump #6 has been experiencing electrical faults related to the motor contactor, together with a faulty micro-switch within the contactor. An emergency switching of components from Pump #5 has been performed and Pump #6 is now in service since July 29, 2021, although restricted to limited duty, and remains "on watch".



Sanitary Pump #5 ready for transportation off-site



Sanitary Pump #5 ready on the move!



Sanitary Pump #2 VFD power cells

August 18, 2021 OMIDDD Board Meeting

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

- Remaining items include punch-list and optimization steps for electrification, the modification of one manhole, the finalization of emergency standby contracts, and the finalization of the Emergency Plan (pending completion of previous items).
- As a result of the various pump outages at NESPS (described above) and concern for the ability to pass wet weather without upstream surcharging and related issues, portions of the emergency contingency plan were implemented on July 31, 2021.
 - As a precautionary measure, Mersino Dewatering was mobilized and has installed pumps in CS-4 and nearby manholes, together with discharge piping to the Red Run Drain.
 - The system is expected to become fully operational as this report is being finalized (morning of 8/6/2021).
 - The emergency system was initially expected to provide 130 cfs of relief. Mersino has estimated that actual capacity of the installed system as of 8/6/2021 is 152 cfs.
 - The emergency system will only be activated (i.e. pumping OMID flow to the Red Run Drain) in the event of further major pump failure at NESPS that results in upstream surcharging in Clinton Township above elevation 564.6 (normal flow is approximately elevation 540).
 - EGLE and GLWA have been notified and are being kept informed of the above. Several photos of the emergency operation are provided below:



August 18, 2021 OMIDDD Board Meeting



August 18, 2021 OMIDDD Board Meeting

Additional work being performed under Metco Maintenance Contract for NESPS:

- All OMID flow control operations have been placed on hold due to the reduced pumping capacities at NESPS.
- Monthly Wet well sediment measurements and barscreen cleaning has been placed on hold as a result to NESPS limitations.
- Mechanical and Electrical corrective/preventative maintenance schedules continue to proceed without any problems.
- Coordination between GLWA, MID, NESPS, Pump/Electrical Upgrade Project has not affected station operations nor hindered performance or abilities to meet demands.
- NESPS Health and Safety Plan finalized.

Overall Station Performance Report:

- Sanitary Pumps #4 and #6 (on watch) are ready for duty and are meeting demand (250 CFS).
- NESPS pumping capacity reduced by 50% due to the temporary loss of Sanitary Pump #2 and Sanitary Pump #5.
- NEXGEN asset management in use.
- No odor complaints received since October 8, 2020.
- Bio Filter performance normal. Daily readings taken and recorded. H2S odors down considerably. No real presence noted during the heat and humidity.
- Overall General Housekeeping tasks in order.

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

- Daily flow control operations support MID/OMID/GLWA repair and improvement projects on hold due to pump outages and NESPS limitations as noted above.
- All LOTO protocols implemented (no issues to report).
- No major issues to report. System wide communications are good.
- CS-6, In stand-by mode ready for service.
- 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, Project testing in progress.
- Routine daily rounds and inspection made with no other maintenance issues to report at this time.

August 18, 2021 OMIDDD Board Meeting

OMID Control Structure Upgrades Status:

Amt Invoiced: \$69,772 Engineering services to date; Total design and construction budget currently established as \$500,000 (including contingencies and admin/legal).

Schedule Status: Construction of cover mods substantially complete 8/14/20

- Hatch and Access improvements complete, CSM Contract closed-out.
- CS-5, CS-6, CS-7, and CS-8 mechanical repairs have been completed by HESCO and control structures are in stand-by mode, ready for service.
- HESCO has provided a study of control structures that evaluates long-term operability. This document is currently under review.

OMID System 3-Year Spot Repairs and 6-Year Inspection Status:

Amt Invoiced: Total design and construction budget for 3-Year repairs currently is established as \$1,352,801 (including contingencies and admin/legal).

Schedule and Progress Status:

- Remaining 3-year spot repair work consists of step removal at one manhole in PCI-8.
- The 6-Year inspection began July 8, 2021 in PCI-10B and is ongoing with some minor infiltration observed and documented.

NIEA Repairs (Design/Construction)

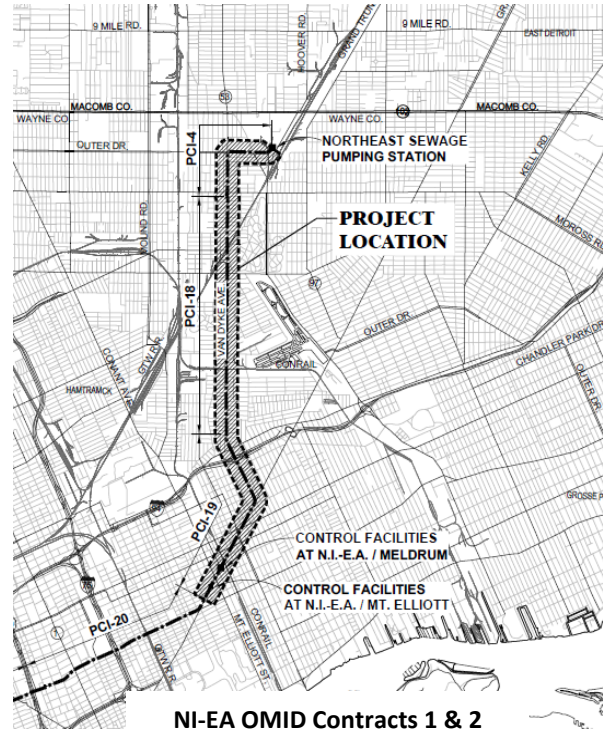
Amt Invoiced: \$2,023,084 out of currently projected study/design budget of \$2,400,570; Total design and construction budget currently is \$44,168,770 (including contingencies and admin/legal). Contract 1 construction work is now complete to 8% of the Contract value, based on the current application for payment.

Schedule Status: Contract 1: PCI-4 Interceptor Outer Drive Access Shaft excavation is in progress. In-sewer installation of internal ribs and monorail is underway.
Contract 2: 90% design work complete; expected to bid late-September to early-October, 2021 pending permit issues and coordination with GLWA projects that impact flow control management requirements.

August 18, 2021 OMIDDD Board Meeting

Contract 1 (PCI-4 Rehabilitation)

- Upper 110 ft of PCI-4; re-lined only 3 years ago, is now undergoing failure of applied material. Team continues to work with the material supplier (Milliken) to determine cause; although proceeding with options for lining under NIEA Contract 1.
- Permanent power connection by DTE for the dewatering wells is underway, with new pole and line in place. Final inspection and system activation is scheduled for early August, 2021.
- Access shaft excavation and liner-plate TERS currently stands at approximately 10 feet below ground surface.
- In-sewer installation of support ribs is underway
- Geotechnical monitoring of construction activities indicates stable conditions.
- Pump outages at NESPS have put the project on hold starting July 30, 2021, with a tentative re-start date of August 16, 2021.
- Work is complete to approximately 10% of the Contract value, based on current payment application. Project remains on schedule.



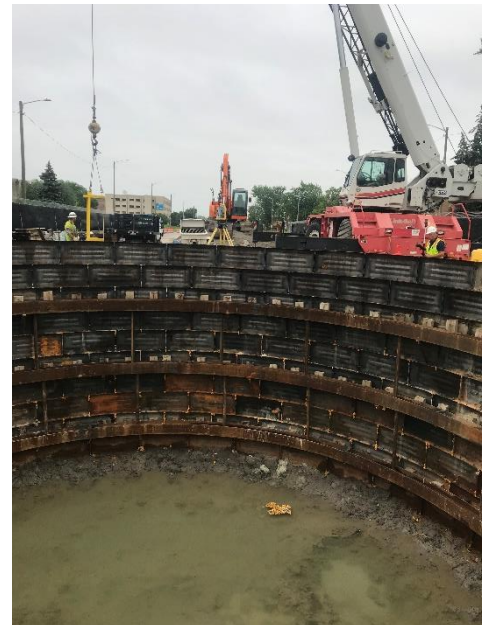
**NI-EA OMID Contracts 1 & 2
Project Location**



**Internal rib and monorail installation
on July 21, 2021**



**Crews working to install internal ribs on
July 22, 2021**



Status of TERS in mid-July, 2021

August 18, 2021 OMIDDD Board Meeting

Contract 2 (PCI -18/19 Rehabilitation)

- Coordination meetings and discussions are ongoing with GLWA regarding cost sharing of rehabilitation of common to all portions of the NI-EA and new control structures, and other miscellaneous design coordination efforts. GLWA is supportive of the general approach for the project.
- NI-EA OMID Contract No. 2 PCI-18 & 19 Rehabilitation has been workshopped with GLWA and the team continues to develop a 100% design.
- Currently working to address potential conflicts between C2 and GLWA Contract DB-226. This issue may delay C2, and/or result in modifying the contract delivery approach.
- Current City of Detroit permitting issues have also forced delay of the bid advertising date.
- 100% Design submittal is in preparation; completion pending determination of potential impacts from downstream flow control issues; expected bid date in September 2021.

The **draft** line item schedule and budget 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 TBD* (Contract 2)
MDEQ Submittal (Part 41)			4/28/2020 (Contract 1) TBD* (Contract 2)
Issued for Bid			6/10/2020 (Contract 1) 9/7/2021* (Contract 2)
Bid Opening			9/30/2020 (Contract 1) 11/14/2021* (Contract 2)
Contract Award and NTP			12/16/2020 and 1/04/2021 (Contract 1) 1/24/2022* and 2/22/2022* (Contract 2)
Subtotal - Design	\$2,400,570		
Final Completion of Construction	\$3,500,000	\$35,000,000	07/23/2022* (Contract 1) 10/30/2023* (Contract 2)

*Estimated C2 Date

August 18, 2021 OMIDDD Board Meeting

NESPS Pump and Electrical Upgrades Project

Budget Status: \$1,280,139 billed out of current Design Budget of \$1,382,430; \$823,431 out of the current CCA Budget of \$2,443,262. Total construction budget currently established as \$44,080,284.5, including contingencies and admin/legal, through C.O. #14). The total amount invoiced to date as of July 31, 2021 is \$10,961,360.95 (not including the Control Structure 9 Bulkhead Gate facility), representing 26.9% of the project adjusted contract value.

Schedule Status: On Schedule.

The following Design Team Effort work is active:

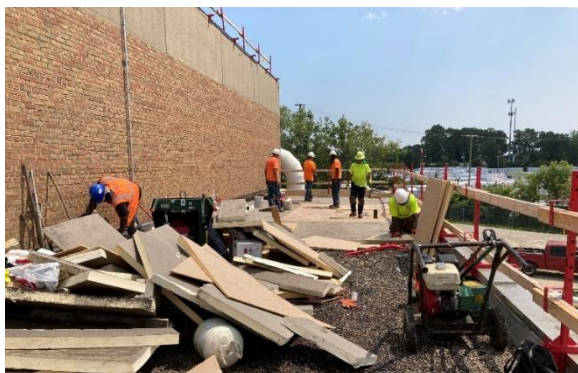
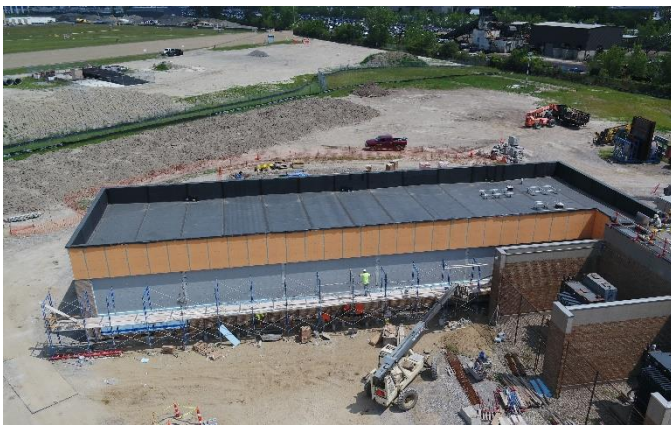
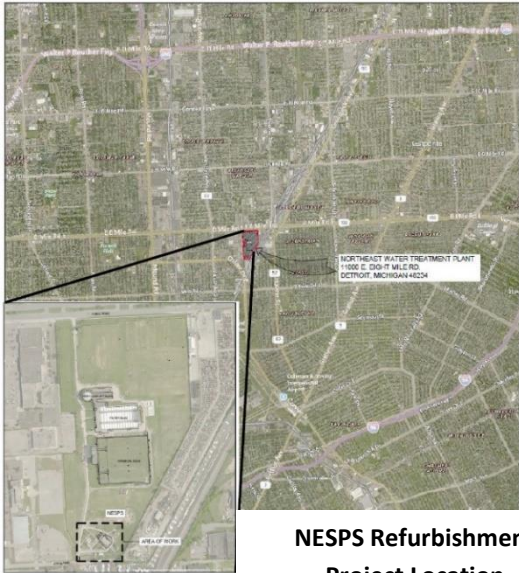
- A review of alternative energy saving methods and pump sequence remains ongoing, incorporating GLWA SCC comments.

The following Construction Services work is active:

- Construction Phase services (RFI's, Submittals) are ongoing, and the engineering team is reviewing and responding.
- Roofing for the new electrical building is complete with the re-roofing of the existing Pump Station nearing completion. Windows and doors projected to be installed during the week of August 9, 2021.
- Lighting improvements underway on Level 6.
- Splicing of underground electrical runs in manhole E-4A is complete.
- The removal of knife gate #1 has been delayed due to pump issues at the station. The removal is now tentatively scheduled for August 10, 2021.
- The QuakeWrap lining of discharge piping associated with Pump #1 is complete.
- Cable terminations at the new primary transformer is complete with plans for energizing now complete. The new transformer is not yet under load.
- 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 - Design	\$3,826,000	\$43,581,019	
10 Substantial Completion	\$2,500,000 (est.)	\$43,300,000 (est.)	3/24/2023
11 Final Completion			6/23/2023

August 18, 2021 OMIDDD Board Meeting



August 18, 2021 OMIDDD Board Meeting



Placing components for Transformer #4



Finishing interior walls on July 28, 2021



Completing QuakeWrap lining of P1



Completing QuakeWrap lining of P1

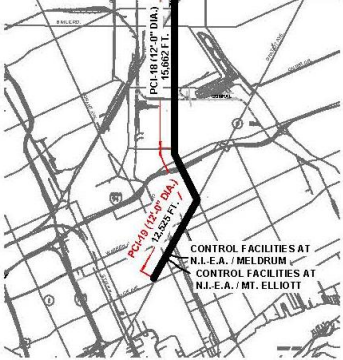
August 18, 2021 OMIDDD Board Meeting

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 (Gatehouse)	IWPC (Weiss)	Y	Y	Y*	N*	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	IWPC	Y	Y	Y	N*	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	N	N	N	N/A
N/A	Control Structure Modifications	CSM/Hesco/MCE	Y/Y/Y	Y/Y/N	Y/N/N	Y/N/N	N/A
N/A	OMID Maintenance Repairs	Doetsch	Y	N	N	N	N/A
N/A	CS-9 Gate Modifications	Walsh as CMR	N	N	N	N	N
N/A	NESPS Pump & Electrical Upgrade	ASI; Walsh as CMAR	N	N	N	N	N
N/A	NIEA-OMIDDD Contract 1 (PCI-4)	Marra	N	N	N	N	N

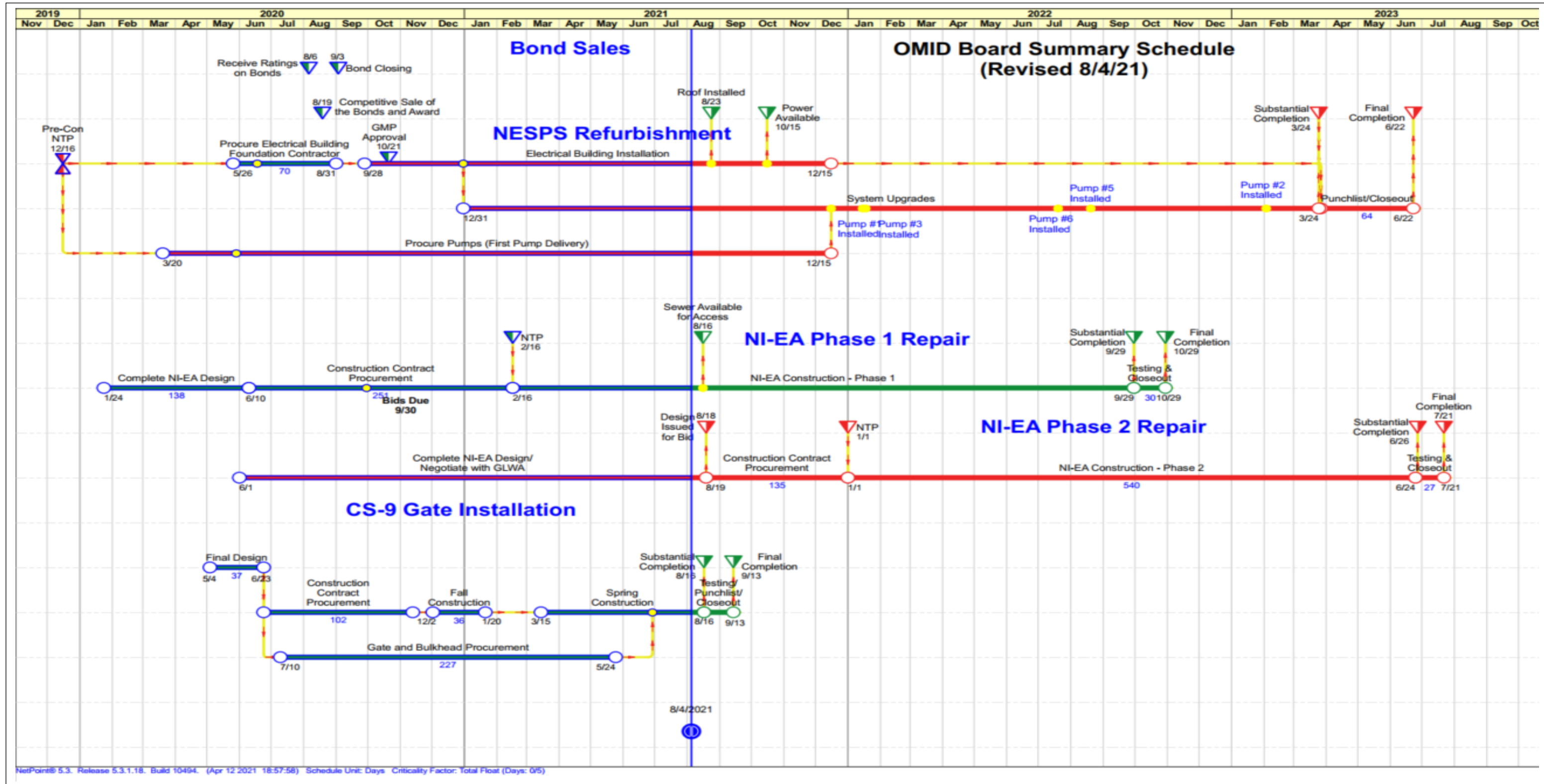
* In review, pending Coating Issues Resolution and Change Order and Memo of Understanding approvals

Work Currently in Design/Study/Engineering		
Description	Design Consultant	Status
System-wide Odor/Corrosion Study	Jacobs	Study Complete
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing
NIEA-OMIDDD Contract 2 (PCI-18/19)	NTH	Design ~90% Complete; pursuing cost sharing w/ GLWA
Emergency Pumping Plan	ASI/FKE	Design Complete; minor field work remains. System successfully tested



Overview of OMID System in Oakland, Macomb, and Wayne County

August 18, 2021 OMIDDD Board Meeting



OMID Project Schedule Summary

August 18, 2021 OMIDDD Board Meeting

MID/OMID Construction Schedule

Project	Work Location	Owner	Lead Engineer	Contractor	2021				2022								2023								MID/OMID Control Devices Required to Store Flow									Concurrent Work Notes						
					A	S	O	N	D	J	F	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
MID Grouting (Preliminary schedule has GI and LSI work beginning when)	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.
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 & between CS-2/CS-3	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 preliminary.
Segment 5 Lining*	15 Mile between ITC Corridor & Eberlein	MID	FKE	OR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	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.	
NIEA Rehabilitation (Downstream of NESPS)	PCI-4 Shaft & Lining	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 Spot Repairs, Lining, and Flow Controls	OMID	NTH	TBD																									-	-	-	-	-	-	-	-	-	-	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.	
OMID CCTV Inspection	Throughout System	OMID	NTH	Doetsch	/																								-	Y	Y	Y	-	Y	Y	-	n/a	H	Flow control will be required within certain reaches to facilitate.	
CS-9 Gate Installation	CS-9	OMID	NTH	Walsh																									-	Y	Y	Y	-	Y	Y	Y	n/a	H	Requires one day for testing.	
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	GLWA - DRI	GLWA	FKE	Jay Dee																									-	-	-	-	-	-	-	-	-	-	Can be effected by flows rerouted from the NIEA to the DRI.	
PSPS / COSDS Work (PSPS Shutdown)	PSPS	WRC	n/a	n/a																									-	-	-	-	-	-	-	-	-	-	Reduced diversion to PSPS through the Summer (7MGD). 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 8/1/2021. Estimates to be updated as necessary.

* Flow control from 8/20 through 6/21 will be required for sewer cleaning. Flow control requirements are TBD based on contractor means & methods, not reflected in "Control Devices Required to Store Flow" section

* Flow control from 7/21 through 12/21 is shown for sewer lining. 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

d. Estimated Project Window

 Flow Control Required

 Flow Control May Be Required

Agenda Item No. 10

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

YTD Trial Balance
Fund: 84915 Oakland Macomb InterceptorSeg4
As of Fiscal Period: Month 10, 2021

Run By: WRC_REPORTING
Run: 08/12/2021 at 01:54 PM
Scope: 84915 Oakland Macomb InterceptorSeg4

ACCOUNT		Oakland Macomb InterceptorSeg4 100000001913	OMI NESPS GATEHOUSE SEG4 100000002232	NESPS Odor Corrosion StdY Seg4 100000002708	YTD Balance
100100	Cash - Operating	0.00	0.00	0.00	0.00
104100	Accrued Interest on Investment	42,308.19	0.00	0.00	42,308.19
230852	Accounts Payable	0.00	0.00	0.00	0.00
	Revenues	152,085.24	273.89	(154,085.72)	(1,726.59)
697551	Issuance of Bonds	170,002.55	302.73	(170,305.28)	0.00
	Expenditures	47,294.45	27,876.05	195,484.11	270,654.61
	Special Items- Uses	0.00	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(411,690.43)	(28,452.67)	128,906.89	(311,236.21)
		0.00	(0.00)	0.00	0.00

SRF (SAW Loan) final draw request received January 2017.

Cash as of 07/31/2021	\$	-
Invoices/Reimbursements for Seg 4 on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS Gatehouse on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS NIEA-East Arm on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS Odor Corrosion Study on Current Agenda impacting Cash Balance		0.00
Total Net Cash Balance	\$	-

Water Resources Commissioner

PROJECT WORK IN PROGRESS

Oakland Macomb InterceptorSeg4

10000001913

(as of July 31, 2021)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
ADM - Administration				
730926 - Indirect Costs		0.00	63,879.05	
730940 - Insurance		0.00	67,871.13	
731115 - Licenses and Permits		0.00	320,000.00	
731521 - Public Services		0.00	14,235.58	
732165 - Workshops and Meeting		0.00	29.66	
771638 - Drain Equip Labor		0.00	4,607.71	
771639 - Drain Equipment		0.00	269.47	
Administration TOTALS				
	390,165.00	0.00	470,892.60	(\$80,727.60)
ENG - Engineering				
731346 - Personal Mileage		100.80	18,464.81	
731521 - Public Services		0.00	40,605.00	
771638 - Drain Equip Labor		430.88	790,632.97	
771639 - Drain Equipment		21.92	84,642.34	
Engineering TOTALS				
	484,153.00	553.60	934,345.12	(\$450,192.12)
ENGCON - Engineering Consultant				
730639 - Engineering Services-Other		0.00	3,594,242.60	
731073 - Legal Services		0.00	108.00	
Engineering Consultant TOTALS				
	3,275,248.00	0.00	3,594,350.60	(\$319,102.60)
FAC - Facility Acquisition				
731472 - Project Construction and Impr		0.00	14,058,313.68	
731521 - Public Services		0.00	6,798.84	
750294 - Material and Supplies		0.00	228.00	
Facility Acquisition TOTALS				
	15,225,614.00	0.00	14,065,340.52	\$1,160,273.48
INS - Inspection				
730373 - Contracted Services		0.00	473.03	
731521 - Public Services		0.00	16,935.91	
Inspection TOTALS				
	17,408.00	0.00	17,408.94	(\$0.94)
LEGAL - Legal and Financial				
730639 - Engineering Services-Other		0.00	8,398.96	
730940 - Insurance		0.00	54,526.58	
731073 - Legal Services		0.00	124,753.11	
793938 - Discount on Bonds		0.00	6,964.10	
Legal and Financial TOTALS				
	191,321.00	0.00	194,642.75	(\$3,321.75)
ROW - Right of Way				
731563 - Recording Fees		0.00	50.67	
Right of Way TOTALS				
	0.00	0.00	50.67	(\$50.67)

Water Resources Commissioner
PROJECT WORK IN PROGRESS
Oakland Macomb InterceptorSeg4
100000001913
 (as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
Project 100000001913 - Oakland Macomb InterceptorSeg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$19,583,909.00	\$553.60	\$19,277,031.20	\$306,877.80
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	(\$4,263.44)	\$8,331,918.52	
615572-State Capital Grants	\$0.00	\$1,105,350.77	
655077-Accrued Interest Adjustments	\$1.09	\$42,308.19	
655385-Income from Investments	\$13.81	\$651,124.81	
697551-Issuance of Bonds	(\$4,712.23)	\$698,637.10	
697753-State Revolving Fund Loans	\$0.00	\$8,490,000.00	
TOTAL REVENUE	(\$8,960.77)	\$19,319,339.39	
REVENUE OVER/(UNDER) EXPENSES		\$42,308.19	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

OMI NESPS GATEHOUSE SEG4

100000002232

(as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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ADM - Administration

730926 - Indirect Costs	0.00	1,217.23	
771638 - Drain Equip Labor	0.00	53.43	

Administration TOTALS

9,472.00	0.00	1,270.66	\$8,201.34
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CONT - Contingency

Contingency TOTALS

93,209.00	0.00	0.00	\$93,209.00
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ENG - Engineering

771638 - Drain Equip Labor	0.00	13,790.23	
771639 - Drain Equipment	0.00	598.96	

Engineering TOTALS

59,699.00	0.00	14,389.19	\$45,309.81
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ENGCON - Engineering Consultant

730639 - Engineering Services-Other	0.00	1,274,705.03	
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Engineering Consultant TOTALS

496,981.00	0.00	1,274,705.03	(\$777,724.03)
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FAC - Facility Acquisition

731472 - Project Construction and Impr	0.00	3,456,264.64	
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Facility Acquisition TOTALS

3,748,637.00	0.00	3,456,264.64	\$292,372.36
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INS - Inspection

771638 - Drain Equip Labor	0.00	1,277.93	
771639 - Drain Equipment	0.00	59.93	

Inspection TOTALS

5,000.00	0.00	1,337.86	\$3,662.14
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LEGAL - Legal and Financial

731073 - Legal Services	0.00	1,456.00	
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Legal and Financial TOTALS

6,000.00	0.00	1,456.00	\$4,544.00
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Project 100000002232 - OMI NESPS GATEHOUSE SEG4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$4,418,998.00	\$0.00	\$4,749,423.38	(\$330,425.38)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$2,375.00	\$2,434,714.39	
697551-Issuance of Bonds	\$2,625.00	\$2,314,708.99	
TOTAL REVENUE	\$5,000.00	\$4,749,423.38	
REVENUE OVER/(UNDER) EXPENSES		\$0.00	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Odor Corrosion Stdy Seg4

100000002708

(as of July 31, 2021)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
ADM - Administration				
730926 - Indirect Costs		0.00	25,041.48	
730940 - Insurance		0.00	88,400.00	
Administration TOTALS	188,148.00	0.00	113,441.48	\$74,706.52
CONT - Contingency				
Contingency TOTALS	637,000.00	0.00	0.00	\$637,000.00
ENG - Engineering				
771638 - Drain Equip Labor		389.47	122,961.19	
771639 - Drain Equipment		20.35	4,605.06	
Engineering TOTALS	206,253.00	409.82	127,566.25	\$78,686.75
ENGCON - Engineering Consultant				
730373 - Contracted Services		-12,576.79	1,320,143.68	
730639 - Engineering Services-Other		0.00	59,195.44	
Engineering Consultant TOTALS	1,073,000.00	-12,576.79	1,379,339.12	(\$306,339.12)
FAC - Facility Acquisition				
730352 - Construction		0.00	662,863.90	
731472 - Project Construction and Impr		-80,000.00	4,179,747.26	
Facility Acquisition TOTALS	4,600,000.00	-80,000.00	4,842,611.16	(\$242,611.16)
INS - Inspection				
771638 - Drain Equip Labor		0.00	212,352.47	
771639 - Drain Equipment		0.00	32,443.08	
Inspection TOTALS	190,343.00	0.00	244,795.55	(\$54,452.55)
LEGAL - Legal and Financial				
731073 - Legal Services		0.00	1,744.00	
Legal and Financial TOTALS	15,000.00	0.00	1,744.00	\$13,256.00
ROW - Right of Way				
Right of Way TOTALS	46,000.00	0.00	0.00	\$46,000.00
STD - Standard Operation				
730352 - Construction		0.00	116,361.10	
730926 - Indirect Costs		0.00	3,729.80	
730940 - Insurance		0.00	139,930.93	
731906 - Testing Services		0.00	31,382.05	
771638 - Drain Equip Labor		0.00	4,613.57	
771639 - Drain Equipment		0.00	2,460.66	
Standard Operation TOTALS	38,010.00	0.00	298,478.11	(\$260,468.11)

SUR - Survey Crew

Water Resources Commissioner
PROJECT WORK IN PROGRESS
NESPS Odor Corrosion Stdy Seg4
100000002708
 (as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
Survey Crew TOTALS			
10,246.00	0.00	0.00	\$10,246.00

Project 100000002708 - NESPS Odor Corrosion Stdy Seg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$7,004,000.00	(\$92,166.97)	\$7,007,975.67	(\$3,975.67)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$1,888.44	\$3,281,321.76	
697551-Issuance of Bonds	\$2,087.23	\$3,726,653.91	
TOTAL REVENUE	\$3,975.67	\$7,007,975.67	
REVENUE OVER/(UNDER) EXPENSES		\$0.00	

ACCOUNT		YTD Balance No Project	OMID Segment 5 100000003252	OMID NI-EA CONSTRUCTION 100000003308	ELEC CONSTRUCTION 100000003309	YTD Balance
100100	Cash - Operating	0.00	1,284,261.05	24,271,490.57	43,764,062.14	69,319,813.76
104100	Accrued Interest on Investment	0.00	(94,733.16)	0.00	0.00	(94,733.16)
230852	Accounts Payable	0.00	0.00	(1,185,670.69)	(2,024,652.70)	(3,210,323.39)
	Revenues	402,211.79	18,135,124.55	(6,430,500.35)	(12,248,377.99)	(141,542.00)
697551	Issuance of Bonds	0.00	63,802,721.66	(21,965,099.65)	(41,837,622.01)	0.00
	Expenditures	0.00	0.00	5,309,780.12	12,346,590.56	17,656,370.68
	Special Items- Uses	0.00	0.00	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(402,211.79)	(83,127,374.10)	0.00	0.00	(83,529,585.89)
		0.00	0.00	0.00	(0.00)	(0.00)

Cash as of 07/31/2021 \$ 69,319,813.76

Invoices/Reimbursements for NIEA Construction on Current Agenda impacting Cash Balance (104,699.21)

Invoices/Reimbursements for NESPS Mech / Electrical Construction on Current Agenda impacting Cash Balance (74,635.06)

Total Net Cash Balance \$ 69,140,479.49

Water Resources Commissioner

PROJECT WORK IN PROGRESS

OMID NI-EA CONSTRUCTION

100000003308

(as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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ADM - Administration
Administration TOTALS

584,000.00	0.00	0.00	\$584,000.00
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CONT - Contingency
Contingency TOTALS

2,581,000.00	0.00	0.00	\$2,581,000.00
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ENG - Engineering

771638 - Drain Equip Labor

4,121.78

48,743.95

771639 - Drain Equipment

148.70

2,131.71

Engineering TOTALS

478,000.00	4,270.48	50,875.66	\$427,124.34
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ENGCON - Engineering Consultant

730639 - Engineering Services-Other

-915.15

306,612.31

731444 - Prof Svc-Consultant

-7,414.71

489,502.16

731472 - Project Construction and Impr

0.00

539,637.75

Engineering Consultant TOTALS

4,913,000.00	-8,329.86	1,335,752.22	\$3,577,247.78
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FAC - Facility Acquisition

730352 - Construction

0.00

2,694,063.83

731472 - Project Construction and Impr

0.00

1,127,797.82

Facility Acquisition TOTALS

17,983,600.00	0.00	3,821,861.65	\$14,161,738.35
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INS - Inspection
Inspection TOTALS

260,000.00	0.00	0.00	\$260,000.00
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LEGAL - Legal and Financial

730940 - Insurance

41,250.00

41,250.00

731073 - Legal Services

0.00

10,454.00

Legal and Financial TOTALS

1,259,000.00	41,250.00	51,704.00	\$1,207,296.00
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ROW - Right of Way

771638 - Drain Equip Labor

2,635.25

19,395.85

771639 - Drain Equipment

92.11

770.93

Right of Way TOTALS

265,000.00	2,727.36	20,166.78	\$244,833.22
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STD - Standard Operation

730639 - Engineering Services-Other

0.00

29,419.81

Standard Operation TOTALS

40,000.00	0.00	29,419.81	\$10,580.19
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SUR - Survey Crew
Survey Crew TOTALS

32,000.00	0.00	0.00	\$32,000.00
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Water Resources Commissioner
PROJECT WORK IN PROGRESS
OMID NI-EA CONSTRUCTION
100000003308
 (as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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Project 100000003308 - OMID NI-EA CONSTRUCTION			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$28,395,600.00	\$39,917.98	\$5,309,780.12	\$23,085,819.88
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$6,430,500.35	
697551-Issuance of Bonds	\$0.00	\$21,965,099.65	
TOTAL REVENUE	\$0.00	\$28,395,600.00	
REVENUE OVER/(UNDER) EXPENSES		\$23,085,819.88	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS MECH-ELEC CONSTRUCTION

100000003309

(as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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ADM - Administration
Administration TOTALS

620,000.00	0.00	0.00	\$620,000.00
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CONT - Contingency
Contingency TOTALS

4,917,000.00	0.00	0.00	\$4,917,000.00
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ENG - Engineering

771638 - Drain Equip Labor

5,580.16

73,010.61

771639 - Drain Equipment

242.68

2,800.37

Engineering TOTALS

446,000.00	5,822.84	75,810.98	\$370,189.02
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ENGCON - Engineering Consultant

730639 - Engineering Services-Other

0.00

795,396.67

731444 - Prof Svc-Consultant

0.09

73,922.41

731458 - Professional Services

-192.45

63,074.38

Engineering Consultant TOTALS

3,987,000.00	-192.36	932,393.46	\$3,054,606.54
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FAC - Facility Acquisition

731472 - Project Construction and Impr

0.00

10,961,360.95

Facility Acquisition TOTALS

40,857,000.00	0.00	10,961,360.95	\$29,895,639.05
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INS - Inspection

731458 - Professional Services

266.00

266.00

771638 - Drain Equip Labor

16,057.32

124,690.20

771639 - Drain Equipment

1,829.31

15,403.97

Inspection TOTALS

285,000.00	18,152.63	140,360.17	\$144,639.83
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LEGAL - Legal and Financial

730940 - Insurance

83,750.00

179,800.00

Legal and Financial TOTALS

2,417,000.00	83,750.00	179,800.00	\$2,237,200.00
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ROW - Right of Way
Right of Way TOTALS

393,000.00	0.00	0.00	\$393,000.00
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STD - Standard Operation

730940 - Insurance

0.00

56,865.00

Standard Operation TOTALS

130,000.00	0.00	56,865.00	\$73,135.00
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SUR - Survey Crew
Survey Crew TOTALS

34,000.00	0.00	0.00	\$34,000.00
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Water Resources Commissioner
PROJECT WORK IN PROGRESS
NESPS MECH-ELEC CONSTRUCTION
100000003309
 (as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
Project 100000003309 - NESPS MECH-ELEC CONSTRUCTION			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$54,086,000.00	\$107,533.11	\$12,346,590.56	\$41,739,409.44
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$12,248,377.99	
697551-Issuance of Bonds	\$0.00	\$41,837,622.01	
TOTAL REVENUE	\$0.00	\$54,086,000.00	
REVENUE OVER/(UNDER) EXPENSES		\$41,739,409.44	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

OMID Segment 5

100000003252

(as of July 31, 2021)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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ADM - Administration

730177 - Bond Issuing Cost 0.00 242,201.57

Administration TOTALS

0.00 0.00 242,201.57 (\$242,201.57)

LEGAL - Legal and Financial

730177 - Bond Issuing Cost 0.00 514,935.00

Legal and Financial TOTALS

0.00 0.00 514,935.00 (\$514,935.00)

Project 100000003252 - OMID Segment 5

Total Project Expenses

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$0.00	\$0.00	\$757,136.57	(\$757,136.57)

Total Project Revenue

Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	(\$15,377.60)	\$317,645.40	
655077-Accrued Interest Adjustments	\$1,882.78	(\$94,733.16)	
655385-Income from Investments	\$23,828.80	\$638,207.01	
655462-Increase Market Value Invest	\$0.00	(\$401,669.67)	
697219-Premiums on Bonds Sold	\$0.00	\$7,672,724.75	
697551-Issuance of Bonds	\$0.00	(\$6,587,721.66)	
TOTAL REVENUE	\$10,333.98	\$1,544,452.67	
REVENUE OVER/(UNDER) EXPENSES		\$787,316.10	

Oakland County - Water Resources Commissioner's Office
Fund Equity: Schedule of Reserves and Dedicated Funds
As of Date: July 31, 2021

Fund	Description	Major Maintenance	Emergency Maintenance Reserve	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	OMIDD Maintenance Fund	2,024,575.10	416,666.70	3,246,904.52	16,275,470.37		\$ 21,963,616.69
84915	OMIDD Seg 4						
	- Project 1-1913 Interceptor Seg 4					42,308.19	
	Total Segment 4						42,308.19
84917	OMIDD Seg 5						
	- No Project					402,211.79	
	- Project 1-3252 Interceptor Seg 5					787,316.10	
	- Project 1-3308 NIEA Mech. / Elect. Const.					23,085,819.88	
	- Project 1-3309 NESPS Construction					41,739,409.44	
	Total Segment 5						66,014,757.21
Total Equity in Maintenance and Construction Funds							\$ 88,020,682.09

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

Oakland County - Water Resources Commissioner's Office
Statement of Net Assets
As of Date: Jul 31, 2021
Fund: 82912 Oakland Macomb InterceptorCh21

	MAJOR MAINTENANCE RESERVE	EMERGENCY MAINTENANCE RESERVE	CAPITAL IMPROVEMENT RESERVE	UNDESIGNATED RETAINED EARNINGS	TOTAL
Total Net Assets Beginning	2,848,992.42	0.00	2,413,875.04	11,133,016.60	16,395,884.06
Increases	845,833.30	416,666.70	949,250.66	60,983,042.33	63,194,792.99
Decreases	1,670,250.62	0.00	116,221.18	55,840,588.56	57,627,060.36
Adjustments	0.00	0.00	0.00	0.00	0.00
Total Net Assets Ending	<u>2,024,575.10</u>	<u>416,666.70</u>	<u>3,246,904.52</u>	<u>16,275,470.37</u>	<u>21,963,616.69</u>
Net Assets Invested in Capital as of 07/31/2021				0.00	0.00
Current year adjustments				0.00	0.00
ESTIMATED Undesignated Retained Earnings				<u>16,275,470.37</u>	<u>21,963,616.69</u>

OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS

OMI DD Meeting Date 08/18/2021

		84915	84915	84915	84917	84917	82912	
		1-1913	1-2232	1-2708	1-3308	1-3309		
<u>Payable To</u>	<u>Invoice #</u>	<u>Segment 4</u>	<u>Segment 4 - NIEA East Arm</u>	<u>Segment 4 - NESPS Odor Corrosion Study</u>	<u>Segment 5 NIEA Construction</u>	<u>Segment 5 NESPS Mech / Electric Construction</u>	<u>Opoperations & Maintenance</u>	<u>Total</u>
Oakland County *	WRC Labor/Fringes/Non-direct Labor	430.88		389.47	6,757.03	21,637.48		\$29,214.86
Oakland County *	WRC Equipment	21.92		20.35	240.81	2,071.99		\$2,355.07
Oakland County *	WRC Mileage	100.80						\$100.80
Applied Science, Inc	Invoice # 30 (ASI Inv. #7920) Services 5/30/21 to 6/26/21					64,004.47		\$64,004.47
ATA National Title Group	Invoice # 82-21793064-SCM Title Search for 19041 Vandyke Detroit, MI						325.00	\$325.00
Clark Hill PLC	Invoice # 1113630 Matter 404547 Services Through 06/30/2021				10,098.00			\$10,098.00
Clark Hill PLC	Invoice # 1113633 Matter 424741 Services Through 06/30/2021						297.00	\$297.00
Inland Lakes Landscaping Corp	Invoice # 24656 Herbicide Service Date 07/21/21						500.00	\$500.00
KoneCranes	Invoice # 154467071 Runway Rail Repairs 4/13/2021						59,869.50	\$59,869.50
Kurschat & Company	Invoice # 6353 Appraisal East Arm easement 7/21/21						3,000.00	\$3,000.00
METCO	Invoice # 1811-31 Through 7/31/21						125,054.71	\$125,054.71
NTH Consultants	Inv # 02 2021 OMIDD System Inspection Service Through 7/23/21						10,725.80	\$10,725.80
NTH Consultants	Inv # 08 NI-EA Construction Engineering Service Through 7/23/21				78,094.90			\$78,094.90
NTH Consultants	Inv # 10 NESPS Pumping and Electrical Upgrades Service Through 7/23/21					3,418.65		\$3,418.65
NTH Consultants	Inv # 12 OMIDD NESPS Safety Manual & Crane Support Service Through 7/23/21						2,999.65	\$2,999.65
NTH Consultants	Inv # 26 - OMIDD NI-EA Rehab Services Through 7/23/21				16,506.31			\$16,506.31
NTH Consultants	Inv # 30 - OMIDD System Immediate Repair Service Through 7/23/21						351.14	\$351.14
PMA Consultants	Invoice # 03559.01 - 14 Professional Services Through 07/31/20					7,211.94		\$7,211.94
Total Invoices/Reimbursements for Approval		\$553.60	\$0.00	\$409.82	\$111,697.05	\$98,344.53	\$203,122.80	\$414,127.80
	* Less WRC Charges already paid from OMI Fund	(553.60)	0.00	(409.82)	(6,997.84)	(23,709.47)	0.00	(31,569.93)
Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain		\$0.00	\$0.00	\$0.00	\$104,699.21	\$74,635.06	\$203,122.80	\$382,457.07

Agenda Item No. 11

Invoices

OMI Segment 4 Project - WRC Equipment Charges for Trans Dates -06/19/2021 - 07/16/2021									
VOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
834323	06/30/2021	06/22/2021	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/30/2021	06/22/2021	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
					\$21.92				

OMI Segment 4 Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/19/2021 - 07/16/2021									
VOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
834323	06/30/2021	06/22/2021	POUSHO, ROBERT	8.00	\$430.88	REGULAR	WRCCON	100000001913	ENG
					\$430.88				

OMI Segment 4 Project - WRC Personal Mileage and Parking - Accounting Date Range 07/01/2021 - 07/31/2021

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Descr	Sum BU Amount
7/2/2021	84915	OMIDD Segment 4	100000001913	Oakland Macomb Interceptor Seg 4	ENG	Pousho 90 Miles 7-9-21	\$ 50.40
7/30/2021	84915	OMIDD Segment 4	100000001913	Oakland Macomb Interceptor Seg 4	ENG	Pousho 90 Miles 8-6-21	\$ 50.40
							<u>\$ 100.80</u>

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 6/19/2021 - 07/16/2021									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
864521	07/02/2021	06/24/2021	BROWN, JOEL	1.00	\$113.95	REGULAR	WRCCON	100000002708	ENG
864521	07/02/2021	06/28/2021	LOCKHART, SIDNEY	1.00	\$137.76	REGULAR	WRCADM	100000002708	ENG
864521	07/16/2021	07/13/2021	LOCKHART, SIDNEY	1.00	\$137.76	REGULAR	WRCADM	100000002708	ENG
					389.47				

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Equipment Charges for Trans Dates - 6/19/2021 - 07/16/2021									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
864521	07/16/2021	07/13/2021	LOCKHART, SIDNEY	1.00	\$5.69	ASSIGNED	Blazer/Suburbans	100000002708	ENG
864521	07/16/2021	07/13/2021	LOCKHART, SIDNEY	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	07/16/2021	07/13/2021	LOCKHART, SIDNEY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	07/16/2021	07/13/2021	LOCKHART, SIDNEY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	07/02/2021	06/24/2021	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	07/02/2021	06/24/2021	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	07/02/2021	06/24/2021	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	07/02/2021	06/28/2021	LOCKHART, SIDNEY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	07/02/2021	06/28/2021	LOCKHART, SIDNEY	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	07/02/2021	06/28/2021	LOCKHART, SIDNEY	1.00	\$5.69	ASSIGNED	Blazer/Suburbans	100000002708	ENG
864521	07/02/2021	06/28/2021	LOCKHART, SIDNEY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
					20.35				

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
									<div>\$-</div>

OMI Segment 5 NI-EA Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/19/2021 - 07/16/2021									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
984657	07/02/21	06/21/21	BROWN, JOEL	3	341.85	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/22/21	BROWN, JOEL	5	569.75	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/23/21	BROWN, JOEL	2	227.90	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/24/21	BROWN, JOEL	2	227.90	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/25/21	BROWN, JOEL	2.5	284.88	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/28/21	BROWN, JOEL	3	341.85	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/29/21	BROWN, JOEL	3	341.85	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	06/30/21	BROWN, JOEL	2.5	284.88	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	07/01/21	BROWN, JOEL	1.5	170.93	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	0.5	56.98	REGULAR	WRCCON	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	1.5	170.93	REGULAR	WRCCON	100000003308	ENG
			BROWN, JOEL Total		3,019.70				
984662	06/22/21	06/21/21	LAWREY, DAVID	1.5	112.19	REGULAR	WRCROW	100000003308	ROW
984662	06/24/21	06/23/21	LAWREY, DAVID	3	224.37	REGULAR	WRCROW	100000003308	ROW
984662	06/24/21	06/24/21	LAWREY, DAVID	1	74.79	REGULAR	WRCROW	100000003308	ROW
			LAWREY, DAVID Total		411.35				
984657	07/02/21	06/22/21	LOCKHART, SIDNEY	2	275.52	REGULAR	WRCADM	100000003308	ENG
984657	07/02/21	06/25/21	LOCKHART, SIDNEY	1	137.76	REGULAR	WRCADM	100000003308	ENG
			LOCKHART, SIDNEY Total		413.28				
984662	06/28/21	06/26/21	PARROTT, JEFFREY	1.5	140.28	OVERTIME	WRCROW	100000003308	ROW
			PARROTT, JEFFREY Total		140.28				
984657	07/02/21	06/29/21	LOCKHART, SIDNEY	2	275.52	REGULAR	WRCADM	100000003308	ENG
984657	07/02/21	06/30/21	LOCKHART, SIDNEY	2	275.52	REGULAR	WRCADM	100000003308	ENG
984657	07/02/21	07/02/21	LOCKHART, SIDNEY	1	137.76	REGULAR	WRCADM	100000003308	ENG
			LOCKHART, SIDNEY Total		688.80				
984662	06/28/21	06/21/21	PARROTT, JEFFREY	2	164.92	REGULAR	WRCROW	100000003308	ROW
984662	06/28/21	06/23/21	PARROTT, JEFFREY	2	164.92	REGULAR	WRCROW	100000003308	ROW
984662	06/28/21	06/25/21	PARROTT, JEFFREY	2	164.92	REGULAR	WRCROW	100000003308	ROW
984662	07/15/21	07/07/21	PARROTT, JEFFREY	4	329.84	REGULAR	WRCROW	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	4	329.84	REGULAR	WRCROW	100000003308	ROW
984662	07/15/21	07/14/21	PARROTT, JEFFREY	2	164.92	REGULAR	WRCROW	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	2	187.04	OVERTIME	WRCROW	100000003308	ROW
984662	07/15/21	07/15/21	PARROTT, JEFFREY	3	247.38	REGULAR	WRCROW	100000003308	ROW
984662	07/15/21	07/16/21	PARROTT, JEFFREY	4	329.84	REGULAR	WRCROW	100000003308	ROW
			PARROTT, JEFFREY Total		2,083.62				
			Grand Total		6,757.03				

OMI Segment 5 NI-EA Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/19/2021 - 07/16/2021									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
984657	07/02/21	06/21/21	BROWN, JOEL	3	7.02	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/21/21	BROWN, JOEL	3	0.75	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/21/21	BROWN, JOEL	3	1.20	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/22/21	BROWN, JOEL	5	11.70	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/22/21	BROWN, JOEL	5	2.00	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/22/21	BROWN, JOEL	5	1.25	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/23/21	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/23/21	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/23/21	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/24/21	BROWN, JOEL	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/24/21	BROWN, JOEL	2	4.68	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/24/21	BROWN, JOEL	2	0.80	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/25/21	BROWN, JOEL	2.5	1.00	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/25/21	BROWN, JOEL	2.5	5.85	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/25/21	BROWN, JOEL	2.5	0.63	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/28/21	BROWN, JOEL	3	1.20	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/28/21	BROWN, JOEL	3	7.02	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/28/21	BROWN, JOEL	3	0.75	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/29/21	BROWN, JOEL	3	7.02	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/29/21	BROWN, JOEL	3	1.20	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/29/21	BROWN, JOEL	3	0.75	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/30/21	BROWN, JOEL	2.5	5.85	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/30/21	BROWN, JOEL	2.5	1.00	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/30/21	BROWN, JOEL	2.5	0.63	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	07/01/21	BROWN, JOEL	1.5	0.38	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	07/01/21	BROWN, JOEL	1.5	3.51	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	07/01/21	BROWN, JOEL	1.5	0.60	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	1.5	3.51	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	1.5	0.38	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	1.5	0.60	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	0.5	0.13	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	0.5	0.20	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	07/02/21	BROWN, JOEL	0.5	1.17	ASSIGNED	PC/Computer	100000003308	ENG
			BROWN, JOEL Total		79.26				
984662	06/22/21	06/21/21	LAWREY, DAVID	1.5	3.51	ASSIGNED	PC/Computer	100000003308	ROW
984662	06/24/21	06/23/21	LAWREY, DAVID	3	7.02	ASSIGNED	PC/Computer	100000003308	ROW
984662	06/24/21	06/24/21	LAWREY, DAVID	1	2.34	ASSIGNED	PC/Computer	100000003308	ROW
			LAWREY, DAVID Total		12.87				
984657	07/02/21	06/22/21	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/22/21	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/22/21	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	100000003308	ENG
984657	07/02/21	06/22/21	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/25/21	LOCKHART, SIDNEY	1	0.40	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/25/21	LOCKHART, SIDNEY	1	2.34	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/25/21	LOCKHART, SIDNEY	1	5.69	ASSIGNED	Blazer/Suburbans	100000003308	ENG
984657	07/02/21	06/25/21	LOCKHART, SIDNEY	1	0.25	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/29/21	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	100000003308	ENG
984657	07/02/21	06/29/21	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/29/21	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/29/21	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	06/30/21	LOCKHART, SIDNEY	2	11.38	ASSIGNED	Blazer/Suburbans	100000003308	ENG
984657	07/02/21	06/30/21	LOCKHART, SIDNEY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ENG
984657	07/02/21	06/30/21	LOCKHART, SIDNEY	2	0.80	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	06/30/21	LOCKHART, SIDNEY	2	4.68	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	07/02/21	LOCKHART, SIDNEY	1	2.34	ASSIGNED	PC/Computer	100000003308	ENG
984657	07/02/21	07/02/21	LOCKHART, SIDNEY	1	0.40	ASSIGNED	Cell Phone	100000003308	ENG
984657	07/02/21	07/02/21	LOCKHART, SIDNEY	1	5.69	ASSIGNED	Blazer/Suburbans	100000003308	ENG
984657	07/02/21	07/02/21	LOCKHART, SIDNEY	1	0.25	ASSIGNED	Tablet/iPad	100000003308	ENG
			LOCKHART, SIDNEY Total		69.44				
984662	06/28/21	06/21/21	PARROTT, JEFFREY	2	0.80	ASSIGNED	Cell Phone	100000003308	ROW
984662	06/28/21	06/21/21	PARROTT, JEFFREY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	06/28/21	06/21/21	PARROTT, JEFFREY	2	4.68	ASSIGNED	PC/Computer	100000003308	ROW
984662	06/28/21	06/23/21	PARROTT, JEFFREY	2	0.80	ASSIGNED	Cell Phone	100000003308	ROW
984662	06/28/21	06/23/21	PARROTT, JEFFREY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	06/28/21	06/23/21	PARROTT, JEFFREY	2	4.68	ASSIGNED	PC/Computer	100000003308	ROW
984662	06/28/21	06/25/21	PARROTT, JEFFREY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	06/28/21	06/25/21	PARROTT, JEFFREY	2	4.68	ASSIGNED	PC/Computer	100000003308	ROW
984662	06/28/21	06/25/21	PARROTT, JEFFREY	2	0.80	ASSIGNED	Cell Phone	100000003308	ROW
984662	06/28/21	06/26/21	PARROTT, JEFFREY	1.5	3.51	ASSIGNED	PC/Computer	100000003308	ROW
984662	06/28/21	06/26/21	PARROTT, JEFFREY	1.5	0.38	ASSIGNED	Tablet/iPad	100000003308	ROW

984662	06/28/21	06/26/21	PARROTT, JEFFREY	1.5	0.60	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/07/21	PARROTT, JEFFREY	4	1.00	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	07/15/21	07/07/21	PARROTT, JEFFREY	4	1.60	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/07/21	PARROTT, JEFFREY	4	9.36	ASSIGNED	PC/Computer	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	4	9.36	ASSIGNED	PC/Computer	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	4	1.60	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	4	1.00	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	2	0.80	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/09/21	PARROTT, JEFFREY	2	4.68	ASSIGNED	PC/Computer	100000003308	ROW
984662	07/15/21	07/14/21	PARROTT, JEFFREY	2	4.68	ASSIGNED	PC/Computer	100000003308	ROW
984662	07/15/21	07/14/21	PARROTT, JEFFREY	2	0.80	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/14/21	PARROTT, JEFFREY	2	0.50	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	07/15/21	07/15/21	PARROTT, JEFFREY	3	0.75	ASSIGNED	Tablet/iPad	100000003308	ROW
984662	07/15/21	07/15/21	PARROTT, JEFFREY	3	1.20	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/15/21	PARROTT, JEFFREY	3	7.02	ASSIGNED	PC/Computer	100000003308	ROW
984662	07/15/21	07/16/21	PARROTT, JEFFREY	4	9.36	ASSIGNED	PC/Computer	100000003308	ROW
984662	07/15/21	07/16/21	PARROTT, JEFFREY	4	1.60	ASSIGNED	Cell Phone	100000003308	ROW
984662	07/15/21	07/16/21	PARROTT, JEFFREY	4	1.00	ASSIGNED	Tablet/iPad	100000003308	ROW
			PARROTT, JEFFREY Total		79.24				
			Grand Total		240.81				

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
									<div>\$-</div>

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/19/2021 - 07/16/2021									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
984656	07/02/2021	06/21/2021	BROWN, JOEL	3.00	341.85	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/22/2021	BROWN, JOEL	1.50	170.93	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/23/2021	BROWN, JOEL	2.00	227.90	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/24/2021	BROWN, JOEL	3.00	341.85	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/25/2021	BROWN, JOEL	2.50	284.88	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/28/2021	BROWN, JOEL	3.00	341.85	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/29/2021	BROWN, JOEL	3.00	341.85	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	06/30/2021	BROWN, JOEL	2.50	284.88	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	07/01/2021	BROWN, JOEL	3.50	398.83	REGULAR	WRCCON	10000003309	ENG
984656	07/02/2021	07/02/2021	BROWN, JOEL	2.00	227.90	REGULAR	WRCCON	10000003309	ENG
			BROWN, JOEL Total		2,962.72				
984664	06/21/2021	06/21/2021	CARLEY, JOSEPH	1.00	78.52	REGULAR	WRCCDM	10000003309	INS
984664	07/08/2021	07/07/2021	CARLEY, JOSEPH	1.00	78.52	REGULAR	WRCCDM	10000003309	INS
984664	07/08/2021	07/08/2021	CARLEY, JOSEPH	2.00	157.04	REGULAR	WRCCDM	10000003309	INS
984664	07/15/2021	07/14/2021	CARLEY, JOSEPH	1.00	78.52	REGULAR	WRCCDM	10000003309	INS
984664	07/16/2021	07/15/2021	CARLEY, JOSEPH	2.00	157.04	REGULAR	WRCCDM	10000003309	INS
984664	07/16/2021	07/16/2021	CARLEY, JOSEPH	2.00	157.04	REGULAR	WRCCDM	10000003309	INS
			CARLEY, JOSEPH Total		706.68				
984656	07/02/2021	06/22/2021	LOCKHART, SIDNEY	2.00	275.52	REGULAR	WRCADM	10000003309	ENG
984656	07/02/2021	06/24/2021	LOCKHART, SIDNEY	2.00	275.52	REGULAR	WRCADM	10000003309	ENG
984656	07/02/2021	06/29/2021	LOCKHART, SIDNEY	2.00	275.52	REGULAR	WRCADM	10000003309	ENG
984656	07/02/2021	07/02/2021	LOCKHART, SIDNEY	1.00	137.76	REGULAR	WRCADM	10000003309	ENG
984656	07/16/2021	07/07/2021	LOCKHART, SIDNEY	2.00	275.52	REGULAR	WRCADM	10000003309	ENG
984656	07/16/2021	07/08/2021	LOCKHART, SIDNEY	3.00	413.28	REGULAR	WRCADM	10000003309	ENG
984656	07/16/2021	07/09/2021	LOCKHART, SIDNEY	2.00	275.52	REGULAR	WRCADM	10000003309	ENG
984656	07/16/2021	07/12/2021	LOCKHART, SIDNEY	3.00	413.28	REGULAR	WRCADM	10000003309	ENG
984656	07/16/2021	07/13/2021	LOCKHART, SIDNEY	2.00	275.52	REGULAR	WRCADM	10000003309	ENG
			LOCKHART, SIDNEY Total		2,617.44				
984664	06/19/2021	06/19/2021	ROBERTS, PATRICK	9.00	727.02	OVERTIME	WRCCDM	10000003309	INS
984664	06/21/2021	06/21/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	06/21/2021	06/21/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	06/22/2021	06/22/2021	ROBERTS, PATRICK	3.00	242.34	OVERTIME	WRCCDM	10000003309	INS
984664	06/22/2021	06/22/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	06/23/2021	06/23/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	06/23/2021	06/23/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	06/24/2021	06/24/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	06/24/2021	06/24/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	06/25/2021	06/25/2021	ROBERTS, PATRICK	1.00	80.78	OVERTIME	WRCCDM	10000003309	INS
984664	06/25/2021	06/25/2021	ROBERTS, PATRICK	1.00	71.23	REGULAR	WRCCDM	10000003309	INS
984664	06/25/2021	06/25/2021	ROBERTS, PATRICK	7.00	498.61	REGULAR	WRCCDM	10000003309	INS
984664	06/28/2021	06/28/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	06/28/2021	06/28/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	06/29/2021	06/29/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	06/29/2021	06/29/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	06/30/2021	06/30/2021	ROBERTS, PATRICK	3.00	242.34	OVERTIME	WRCCDM	10000003309	INS
984664	06/30/2021	06/30/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/01/2021	07/01/2021	ROBERTS, PATRICK	3.00	242.34	OVERTIME	WRCCDM	10000003309	INS
984664	07/01/2021	07/01/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/02/2021	07/02/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	07/02/2021	07/02/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/06/2021	07/06/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	07/06/2021	07/06/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/07/2021	07/07/2021	ROBERTS, PATRICK	3.00	242.34	OVERTIME	WRCCDM	10000003309	INS
984664	07/07/2021	07/07/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/08/2021	07/08/2021	ROBERTS, PATRICK	4.00	323.12	OVERTIME	WRCCDM	10000003309	INS
984664	07/08/2021	07/08/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/09/2021	07/09/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	07/09/2021	07/09/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/12/2021	07/12/2021	ROBERTS, PATRICK	4.00	323.12	OVERTIME	WRCCDM	10000003309	INS
984664	07/12/2021	07/12/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/13/2021	07/13/2021	ROBERTS, PATRICK	3.00	242.34	OVERTIME	WRCCDM	10000003309	INS
984664	07/13/2021	07/13/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/14/2021	07/14/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	07/14/2021	07/14/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/15/2021	07/15/2021	ROBERTS, PATRICK	3.00	242.34	OVERTIME	WRCCDM	10000003309	INS
984664	07/15/2021	07/15/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
984664	07/16/2021	07/16/2021	ROBERTS, PATRICK	2.00	161.56	OVERTIME	WRCCDM	10000003309	INS
984664	07/16/2021	07/16/2021	ROBERTS, PATRICK	8.00	569.84	REGULAR	WRCCDM	10000003309	INS
			ROBERTS, PATRICK Total		15,350.64				
			Grand Total		21,637.48				

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/19/2021 - 07/16/2021									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
984656	07/02/2021	06/21/2021	BROWN, JOEL	3.00	0.75	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/21/2021	BROWN, JOEL	3.00	7.02	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/21/2021	BROWN, JOEL	3.00	1.20	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/22/2021	BROWN, JOEL	1.50	0.38	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/22/2021	BROWN, JOEL	1.50	0.60	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/22/2021	BROWN, JOEL	1.50	3.51	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/23/2021	BROWN, JOEL	2.00	0.50	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/23/2021	BROWN, JOEL	2.00	0.80	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/23/2021	BROWN, JOEL	2.00	4.68	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/24/2021	BROWN, JOEL	3.00	1.20	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/24/2021	BROWN, JOEL	3.00	7.02	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/24/2021	BROWN, JOEL	3.00	0.75	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/25/2021	BROWN, JOEL	2.50	0.63	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/25/2021	BROWN, JOEL	2.50	1.00	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/25/2021	BROWN, JOEL	2.50	5.85	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/28/2021	BROWN, JOEL	3.00	1.20	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/28/2021	BROWN, JOEL	3.00	7.02	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/28/2021	BROWN, JOEL	3.00	0.75	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/29/2021	BROWN, JOEL	3.00	0.75	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/29/2021	BROWN, JOEL	3.00	1.20	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/29/2021	BROWN, JOEL	3.00	7.02	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/30/2021	BROWN, JOEL	2.50	1.00	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/30/2021	BROWN, JOEL	2.50	5.85	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/30/2021	BROWN, JOEL	2.50	0.63	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	07/01/2021	BROWN, JOEL	3.50	1.40	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	07/01/2021	BROWN, JOEL	3.50	8.19	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	07/01/2021	BROWN, JOEL	3.50	0.88	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	07/02/2021	BROWN, JOEL	2.00	0.50	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	07/02/2021	BROWN, JOEL	2.00	4.68	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	07/02/2021	BROWN, JOEL	2.00	0.80	ASSIGNED	Cell Phone	100000003309	ENG
			BROWN, JOEL Total		77.76				
984664	06/21/2021	06/21/2021	CARLEY, JOSEPH	1.00	2.34	ASSIGNED	PC/Computer	100000003309	INS
984664	06/21/2021	06/21/2021	CARLEY, JOSEPH	1.00	5.69	ASSIGNED	3/4 Ton Pick-up	100000003309	INS
984664	06/21/2021	06/21/2021	CARLEY, JOSEPH	1.00	0.40	ASSIGNED	Cell Phone	100000003309	INS
984664	07/08/2021	07/07/2021	CARLEY, JOSEPH	1.00	0.40	ASSIGNED	Cell Phone	100000003309	INS
984664	07/08/2021	07/07/2021	CARLEY, JOSEPH	1.00	2.34	ASSIGNED	PC/Computer	100000003309	INS
984664	07/08/2021	07/07/2021	CARLEY, JOSEPH	1.00	5.69	ASSIGNED	3/4 Ton Pick-up	100000003309	INS
984664	07/08/2021	07/08/2021	CARLEY, JOSEPH	2.00	11.38	ASSIGNED	3/4 Ton Pick-up	100000003309	INS
984664	07/08/2021	07/08/2021	CARLEY, JOSEPH	2.00	0.80	ASSIGNED	Cell Phone	100000003309	INS
984664	07/08/2021	07/08/2021	CARLEY, JOSEPH	2.00	4.68	ASSIGNED	PC/Computer	100000003309	INS
984664	07/15/2021	07/14/2021	CARLEY, JOSEPH	1.00	0.40	ASSIGNED	Cell Phone	100000003309	INS
984664	07/15/2021	07/14/2021	CARLEY, JOSEPH	1.00	2.34	ASSIGNED	PC/Computer	100000003309	INS
984664	07/15/2021	07/14/2021	CARLEY, JOSEPH	1.00	5.69	ASSIGNED	3/4 Ton Pick-up	100000003309	INS
984664	07/16/2021	07/15/2021	CARLEY, JOSEPH	2.00	0.80	ASSIGNED	Cell Phone	100000003309	INS
984664	07/16/2021	07/15/2021	CARLEY, JOSEPH	2.00	11.38	ASSIGNED	3/4 Ton Pick-up	100000003309	INS
984664	07/16/2021	07/15/2021	CARLEY, JOSEPH	2.00	4.68	ASSIGNED	PC/Computer	100000003309	INS
984664	07/16/2021	07/16/2021	CARLEY, JOSEPH	2.00	0.80	ASSIGNED	Cell Phone	100000003309	INS
984664	07/16/2021	07/16/2021	CARLEY, JOSEPH	2.00	4.68	ASSIGNED	PC/Computer	100000003309	INS
984664	07/16/2021	07/16/2021	CARLEY, JOSEPH	2.00	11.38	ASSIGNED	3/4 Ton Pick-up	100000003309	INS
			CARLEY, JOSEPH Total		75.87				
984656	07/02/2021	06/22/2021	LOCKHART, SIDNEY	2.00	4.68	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/22/2021	LOCKHART, SIDNEY	2.00	0.80	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/22/2021	LOCKHART, SIDNEY	2.00	11.38	ASSIGNED	Blazer/Suburbans	100000003309	ENG
984656	07/02/2021	06/22/2021	LOCKHART, SIDNEY	2.00	0.50	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/24/2021	LOCKHART, SIDNEY	2.00	11.38	ASSIGNED	Blazer/Suburbans	100000003309	ENG
984656	07/02/2021	06/24/2021	LOCKHART, SIDNEY	2.00	0.50	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	06/24/2021	LOCKHART, SIDNEY	2.00	4.68	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/24/2021	LOCKHART, SIDNEY	2.00	0.80	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/29/2021	LOCKHART, SIDNEY	2.00	0.80	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/02/2021	06/29/2021	LOCKHART, SIDNEY	2.00	4.68	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	06/29/2021	LOCKHART, SIDNEY	2.00	11.38	ASSIGNED	Blazer/Suburbans	100000003309	ENG
984656	07/02/2021	06/29/2021	LOCKHART, SIDNEY	2.00	0.50	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	07/02/2021	LOCKHART, SIDNEY	1.00	2.34	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/02/2021	07/02/2021	LOCKHART, SIDNEY	1.00	5.69	ASSIGNED	Blazer/Suburbans	100000003309	ENG
984656	07/02/2021	07/02/2021	LOCKHART, SIDNEY	1.00	0.25	ASSIGNED	Tablet/iPad	100000003309	ENG
984656	07/02/2021	07/02/2021	LOCKHART, SIDNEY	1.00	0.40	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/16/2021	07/07/2021	LOCKHART, SIDNEY	2.00	0.80	ASSIGNED	Cell Phone	100000003309	ENG
984656	07/16/2021	07/07/2021	LOCKHART, SIDNEY	2.00	4.68	ASSIGNED	PC/Computer	100000003309	ENG
984656	07/16/2021	07/07/2021	LOCKHART, SIDNEY	2.00	11.38	ASSIGNED	Blazer/Suburbans	100000003309	ENG
984656	07/16/2021	07/07/2021	LOCKHART, SIDNEY	2.00	0.50	ASSIGNED	Tablet/iPad	100000003309	ENG

OMI Seg 5 NESPS Mechanical - Electrical Construction Project - WRC labor-FB-NPF-EQP for 08-18-2021 meeting

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
									<div>\$-</div>



Applied Science, Inc.

300 River Place Suite 5400 Detroit, MI 48207

Phone: (313) 567-3990 Fax: (313) 567-3750

www.asi-detroit.com

August 3, 2021

Project Invoice #30 (ASI Inv. #7920)

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) **li# 41133 exp. 6/26/21 v#352**

Invoice Period: 5/30/21-6/26/21

Task No.	Task Description	Total This Invoice
1	Transition & Basis of Design	
	Total:	\$ -

Task No.	Task Description	Total This Invoice
2	Design Services for Pump & Electrical Upgrades	
	Total:	\$ -
	Subconsultants:	
	FK Engineering:	\$ -
	NTH Consultants	\$ -
	ASI Markup 5%:	\$ -
	Total Due This Invoice:	\$ -

Task No.	Task Description	Total This Invoice
3	Additional Special Services	
	Total:	\$ -
	Subconsultants:	
	FK Engineering:	\$ -
	ASI Markup 5%:	\$ -
	Total Due This Invoice:	\$ -

Task No.	Task Description	Total This Invoice
5	Construction Services	
	Total:	\$ 7,162.00
	Subconsultants:	
	NTH Consultants	\$ 25,825.44
	Metco Services	\$ 25,590.00
	FK Engineering:	\$ 2,720.25
	ASI Markup 5%:	\$ 2,706.78
	Total Due This Invoice:	\$ 64,004.47

Total Due This Invoice:	\$ 64,004.47
Previous Amount Invoiced:	\$ 2,309,040.72
Total Invoiced To-Date	\$ 2,373,045.19
Contract Task Total:	\$ 4,198,380.00
Amount Remaining:	\$ 1,825,334.81

**84917 - 149015 - 730639 - 1-3309
engcon**

JTB 8/6/21



INVOICE

Invoice Date: **July 27, 2021**

File Number: **82-21793064-SCM**

Property Address: **19041 Van Dyke, Detroit, MI 48234**

To:
Oakland Co. Water Right of Way Unit 1 Public Works Drive, 95 West Waterford, MI 48328
Attn: Jeffrey S. Parrott

From:
ATA National Title Group, LLC 42651 Woodward Ave. Bloomfield Hills, MI 48304 Ph:(248) 338-7135 Fax:(248) 338-3045

Description	82912 - 6010101 - 149667 - ROW - 731038 - 1-3019 - V#21334	Amount
Search - Title Information Rep 2301 MI - Commercial	8/6/21	\$325.00

Total Premium: \$325.00

Please Remit To and/or For Closing Information, Please Contact:

ATA National Title Group, LLC
42651 Woodward Ave.
Bloomfield Hills, MI 48304
Ph:(248) 338-7135 Fax:(248) 338-3045

Thank you!

CLARK HILL

P.L.C.

A T T O R N E Y S A T L A W

212 East Grand River Avenue
Lansing, Michigan 48906-4328
Telephone (517) 318-3100
Fed.ID # 38-0425840

INVOICE

Invoice # 1113630

Oakland-Macomb Interceptor Drain Drainage District July 21, 2021
Attn: Megan Koss, Esq. Client: 58434
1 Public Works Drive Matter: 404547
Waterford, MI 48328
kossm@oakgov.com; korths@oakgov.com
cookek@oakgov.com

=====

RE: Northeast Interceptor East Arm Improvements

FOR SERVICES RENDERED through June 30, 2021

Total Services: \$10,098.00

STATEMENT TOTAL \$10,098.00

84917 - 149015 - 731073 - 1-3308 - LEGAL - 5113 - v#2788 - li#39308 - exp. 5/15/21



8/6/21

PAYABLE UPON RECEIPT IN U.S. DOLLARS

CLARK HILL

P.L.C.

A T T O R N E Y S A T L A W

212 East Grand River Avenue
Lansing, Michigan 48906-4328
Telephone (517) 318-3100
Fed.ID # 38-0425840

INVOICE

Invoice # 1113633

Oakland-Macomb Interceptor Drain Drainage District July 21, 2021
Attn: Megan Koss, Esq. Client: 58434
1 Public Works Drive Matter: 424741
Waterford, MI 48328
kossm@oakgov.com; korths@oakgov.com
cookek@oakgov.com

=====

RE: GLWA Model Wastewater Contract

FOR SERVICES RENDERED through June 30, 2021

Total Services: \$297.00

STATEMENT TOTAL \$297.00

82912 - 6010101 - 149030 - 731073 - 5113 - v#2788 - exp. 5/15/21



8/6/21

PAYABLE UPON RECEIPT IN U.S. DOLLARS

Inland Lakes Landscaping Corp.


560 S. Telegraph Rd.

Pontiac, MI 48341

Invoice

Date	Invoice #
8/2/2021	24656
Terms	

Bill To	Job Name
OCWRC C/O George Nichols Bldg 95 West-One Public Works Dr Waterford, MI 48328	Oakland Macomb Interceptor Drain Control Structure #6 12620 15 Mile Road Sterling Heights, MI 48312

Qty	Description	Rate	Amount
	Herbicide Application 7/21/21	500.00	500.00
	Sales Tax	6.00%	0.00
82912 - 155020 - 730373 - 4436 - Ch. 21 v# 16044			
 8/6/21			

			Total	\$500.00
Phone #	Fax #	E-mail	Payments/Credits	\$0.00
(248) 338-8088	(248) 338-6705	inlandlakes@comcast.net	Balance Due	\$500.00

Invoice

Delivery Address OMIDDD / Great Lakes Water Authority 111001 E State Fair St Detroit MI 48234	Information Document No. 154467071 Document Date 04/15/2021 Customer PO Contract #5820 Customer Contact Joel Brown Customer No. 1816160			
Invoice Address Oakland Macomb Interceptor Drain Drainage District Acct: 730660 1 Public Works Drive Fund: 82912 Program: 149090 Waterford MI 48328-1907	Terms of Payment / Delivery Terms of Delivery FCA PLANT OF ORIGIN Terms of Payment 15 days net Due Date 04/30/2021			
Invoice Details Provided labor and materials to complete runway rail repairs for 25 ton crane system, per quote # 1-16RS1CZR. Thank you for your business!!				
Item	Material Description	Quantity	Unit price USD	Value USD
Service Request Num & Delivery Date: 1-93337127747 / 0157363858 / 04/13/2021				
10	Runway Rail Repairs 25 Ton Crane System	1 EA	59,869.50 / EA	59,869.50
	Invoice Value			59,869.50
	Sales Tax			0.00
	Invoice Total			59,869.50
82912 - 6010101 - 149090 - 730660 - 5820 - ch 21 v#22875 - exp. 6/28/22 JTB 8/6/21				

DET-Detroit, MI
43050 W. 10 Mile Road
NOVI MI 48375-3206
USA

Phone No. 248-380-2626
Fax No. 248-380-8595

Contact: Denise Collins
Email: denise.collins@konecranes.com

Kurschat & Company

REAL ESTATE APPRAISERS AND CONSULTANTS

2075 W. BIG BEAVER ❖ SUITE 222 ❖ TROY, MI 48084-3440 ❖
PHONE: (248) 816-9166 ❖ FAX: (248) 816-9167


Invoice #6353

TO:
Office

Oakland County Water Resources Commissioner's

Attn: Jeffrey S. Parrott
One Public Works Drive, Bldg. 95 West
Waterford, MI 48328-1907

82912 - 6010101 - 149667 - ROW - 731038 - 1-3019 -
V#5338 - 5376 - li 45025 - exp. 1/31/24

DATE	DESCRIPTION	PRICE
July 21, 2021	<i>Before and After Appraisal Report OMID North Interceptor, East Arm Parcel 3R</i>  8/6/21 Temporary Easement - OMID 19041 Van Dyke Detroit, Michigan File 2107-1150	\$3,000.00
	TOTAL	\$3,000.00

Kurschat & Company
Taxl.D.#38-3170809



DATE: August 4, 2021

INVOICE PERIOD: thru 7/31/2021

Vendor ID 0000020486

Deputy Chief Engineer/Special Projects Manager

TITLE: OMID & NESPS Operation and Maintenance

OMID Operations - Fund 82912, Program 149130, Account 730373 (3.1-3.4A & 3.4B) JTB 8/6/21

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	40.0	\$ 215.00	\$ 8,600.00
Terry Moore	Operations Manager	86.0	\$ 145.00	\$ 12,470.00
Terry Moore	Operations Manager (Overtime)	50.0	\$ 195.00	\$ 9,750.00
Daniel Martel	Sr. Project Coordinator	0.0	\$ 145.00	\$ -
Sean Grant	Sr. Project Engineer	0.0	\$ 145.00	\$ -
Travis Ford	Sr. Project Engineer	4.0	\$ 145.00	\$ 580.00
Shailesh Patel	Sr. Project Engineer	0.0	\$ 145.00	\$ -
Darrin Green	Staff Engineer	100.0	\$ 90.00	\$ 9,000.00
Darrin Green	Staff Engineer-(Overtime)	107.5	\$ 135.00	\$ 14,512.50
Anthony Vozza	Staff Engineer	184.0	\$ 90.00	\$ 16,560.00
Anthony Vozza	Staff Engineer-(Overtime)	13.0	\$ 135.00	\$ 1,755.00
Christian Hatchett	Staff Engineer	80.0	\$ 45.00	\$ 3,600.00
Sweta Soni	Designer/Drafter	0.0	\$ 85.00	\$ -
			Subtotal:	\$ 76,827.50
			Maintenance Services (see attached invoices):	\$ 1,244.55
			Subtotal NEPS Maintenance:	\$ 78,072.05
			Subtotal Maintenance:	\$ 85,757.05

<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	24.5	\$ 145.00	\$ 3,552.50
Darrin Green	Staff Engineer	9.0	\$ 90.00	\$ 810.00
Darrin Green	Staff Engineer-(Overtime)	3.0	\$ 135.00	\$ 405.00
Anthony Vozza	Staff Engineer	0.0	\$ 90.00	\$ -
Abhishek Shah	Staff Engineer	173.0	\$ 90.00	\$ 15,570.00
Brandon Brochue	Designer/Drafter	0.0	\$ 85.00	\$ -
			Subtotal 6.0:	\$ 20,337.50

Task 12.0 - As-Needed Services

Additional General/Excess Liability Insurance Fee: \$ -

Subtotal 12.0: \$ -

TOTAL AMOUNT DUE THIS INVOICE: \$ **125,054.71**

**NTH Consultants, Ltd.**Infrastructure Engineering
and Environmental Services**82912 - 6010101 - 149662 - 731458- 2608 - Ch. 21 - v#238 - li#24138 - exp. 12/31/21**OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328Invoice # : 2
Project : 61210124
Invoice Group : **
Invoice Date : 7/28/2021

Attention Sid Lockhart

For Professional Services Rendered from 6/26/2021 - 7/23/2021

Consulting Services Regarding 2021 OMID System Inspection

Task 01	Inspection and Reporting	\$526,974.00
	Preliminary Budget Amount	\$526,974.00
	Percent Complete:	2.40%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 3,222.90	\$ 3,824.33
Overhead %	188.00	\$ 6,059.05	7,189.74
Total Regular Labor Expense		9,281.95	11,014.07
Premium Labor Cost		0	0
Total Direct Labor		9,281.95	9,281.95
Profit / Fixed Fee %	12.00	1,113.83	1,321.68
Direct Expenses Charge		314.30	314.30
Expense Multiplier %	5.00	15.72	15.72
Direct Subcontractor Charge		0.00	0.00
Subcontractor/Subconsultant Multiplier %	6.00	0.00	0.00
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		330.02	330.02
Total Costs:		10,725.80	12,665.77
Total Due This Invoice		\$ 10,725.80	\$ 12,665.77



NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

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

JTB

8/6/21

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

Invoice # : 8
Project : 61-200186
Invoice Group : **
Invoice Date : 7/28/2021

Attention: Sid Lockhart

For Professional Services Rendered from 6/26/2021 - 7/23/2021

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	\$2,265,847.00
Task 02	OMID CS-9 Gate CCA	\$217,468.00
	Preliminary Budget Amount	\$2,483,315.00
	Percent Complete:	22.27%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	13,429.49	\$ 91,638.46
Overhead %	188.00 \$	25,247.44	172,280.31
Total Regular Labor Expense		38,676.93	263,918.77
Premium Labor Cost		0	0
Total Direct Labor		38,676.93	263,918.77
Profit / Fixed Fee %	12.00	4,641.23	31,670.25
Direct Expenses Charge		224.27	1,534.54
Expense Multiplier %	5.00	11.21	76.73
Direct Subcontractor Charge		32,586.09	241,289.94
Subcontractor/Subconsultant Multiplier %	6.00	1,955.17	14,477.43
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		34,776.74	257,378.64
Total Costs:		78,094.90	552,967.65
Total Due This Invoice		\$ 78,094.90	\$ 552,967.65



NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

84917- 6010101 - 149015 - 731458 - 2603 - 1-3309- ch 21 - engcon v#4716 - li#24138 - exp. 12/31/21

Jed R

8/6/21

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

Invoice # : 10
Project : 61-200280
Invoice Group : CMT
Invoice Date : 7/28/2021

Attention: Sid Lockhart

For Professional Services Rendered from 6/26/2021 - 7/23/2021

Provide Engineering and Consulting Services regarding NESPS Pumping and Electrical System Upgrade (D-421)

Task 01 CMT Services \$130,138.00
Preliminary Budget Amount \$130,138.00
Percent Complete: 53.80%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	1,015.30	\$ 18,238.15
Overhead %	188.00 \$	1,908.76	34,287.73
Total Regular Labor Expense		2,924.06	52,525.88
Premium Labor Cost		0	0
Total Direct Labor		2,924.06	52,525.88
Profit / Fixed Fee %	12.00	350.89	6,303.11
Direct Expenses Charge		136.86	10,653.05
Expense Multiplier %	5.00	6.84	532.65
Direct Subcontractor Charge		0.00	0.00
Subcontractor/Subconsultant Multiplier %	6.00	0.00	0.00
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		143.70	11,185.70
Total Costs:		3,418.65	70,014.69
Total Due This Invoice		\$ 3,418.65	\$ 70,014.68



NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

82912 - 6010101 - 149662 - 731906 - 2603 - 1-2842 - ch 21 - std - v#4716 - li#24138 - exp. 13/31/21

Jed R

8/6/21

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

Invoice # : 12
Project : 61-200209
Invoice Group : HSM/CSE
Invoice Date : 7/28/2021

Attention: Sid Lockhart

For Professional Services Rendered from 6/26/2021 - 7/23/2021

Provide Engineering and Consulting Services for the OMID NESPS Safety Manual and Crane Support Evaluation. (D419)

Task 01	Health and Safety Manual	\$33,428.00
Task 02	Crane Support Evaluation	\$14,359.00
	Preliminary Budget Amount	\$47,787.00
	Percent Complete:	87.24%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 929.95	\$ 10,865.82
Overhead %	188.00 \$ 1,748.31	20,427.74
Total Regular Labor Expense	2,678.26	31,293.56
Premium Labor Cost	0	0
Total Direct Labor	2,678.26	31,293.56
Profit / Fixed Fee %	12.00 321.39	3,755.22
Direct Expenses Charge	0.00	3,194.86
Expense Multiplier %	5.00 0.00	159.75
Direct Subcontractor Charge	0.00	3,100.00
Subcontractor/Subconsultant Multiplier %	6.00 0.00	186.00
Direct Unit Rate Charge	0.00	0.00
Total Other Direct Charges Reimbursables	0.00	6,640.61
Total Costs:	2,999.65	41,689.39
Total Due This Invoice	\$ 2,999.65	\$ 41,689.40

**NTH Consultants, Ltd.**Infrastructure Engineering
and Environmental Services**84917 - 6010101 - 149015 - 730639 - 2603 - 1-3308 - Ch.21 v#4716 - li#24138 - exp. 12/31/21****8/6/21**OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328Invoice # : 26
Project : 61-190078
Invoice Group : NI-EA
Invoice Date : 7/28/2021**Attention: Sid Lockhart**

For Professional Services Rendered from

6/26/2021 - 7/23/2021

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

Preliminary Budget Amount	\$2,273,833.00
Percent Complete:	83.88%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 2,649.20	\$ 269,807.39
Overhead %	188.00 \$ 4,980.50	507,237.92
Total Regular Labor Expense	7,629.70	777,045.31
Premium Labor Cost	0	0
Total Direct Labor	7,629.70	777,027.86
Profit / Fixed Fee %	12.00 915.56	93,245.43
Direct Expenses Charge	24.29	27,190.12
Expense Multiplier %	5.00 1.21	1,359.55
Direct Subcontractor Charge	7,486.36	951,340.44
Subcontractor/Subconsultant Multiplier %	6.00 449.19	57,080.57
Direct Unit Rate Charge	0	0
Total Other Direct Charges Reimbursables	7,961.05	1,036,970.68
Total Costs:	16,506.31	1,907,261.42
Total Due This Invoice	\$ 16,506.31	\$ 1,907,261.42



NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

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

Jed R

8/6/21

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

Invoice # : 30
Project : 61-190044
Invoice Group : REPAIRS
Invoice Date : 7/28/2021

Attention: Sid Lockhart

For Professional Services Rendered from 06/26/2021 - 07/23/2021

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)		\$ 108.86	\$ 55,940.83
Overhead %	188.00	204.66	105,168.74
Total Regular Labor Expense		313.52	161,109.57
Premium Labor Cost		0	0
Total Direct Labor		313.52	161,109.57
Profit / Fixed Fee %	12.00	37.62	19,333.14
Direct Expenses Charge		0.00	3,659.78
Expense Multiplier %	5.00	0.00	233.01
Direct Subcontractor Charge		0.00	40,248.30
Subcontractor/Subconsultant Multiplier %	5.00	0.00	2,012.46
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		0.00	46,153.55
Total Costs:		351.14	226,596.26
Total Due This Invoice		\$ 351.14	\$ 226,596.26



Oakland County Water Resources Commissioner
Attn: Sid Lockhard, P.E.
One Public Works Drive
Building 95-West
Waterford 48328

August 4, 2021

Invoice No: 03559.01 - 1.0-14

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

Professional Services from July 1, 2021 to July 31, 2021

Professional Personnel

	Hours	Rate	Amount	
Zann, John	28.00	94.00	2,632.00	
Totals	28.00		2,632.00	
Total Labor				2,632.00

Additional Fees

Overhead	149.10 % of 2,632.00		3,924.31	
Profit	10.00 % of 6,556.31		655.63	
Total Additional Fees			4,579.94	4,579.94

Billing Limits

	Current	Prior	To-Date
Total Billings	7,211.94	103,800.47	111,012.41
Limit			450,000.00
Remaining			338,987.59

Total this Invoice \$7,211.94

Please remit payment to PMA CONSULTANTS LLC, PO BOX 675234, DETROIT, MI 48267-5234. Please direct any questions regarding this invoice to Samantha Zeisler, Project Administrator, at 734-418-7897 or szeisler@pmaconsultants.com

84917 - 6010101 - 149015 - 731444 - 6096- 1-3309 - ch21 - engcon - v#16918 - exp. 5/29/23

8/6/21

Agenda Item No. 12

Closed Session

Agenda Item No. 13

Other Business

Agenda Item No. 14

Adjourn