

NOTICE OF MEETINGS
DRAINAGE BOARD FOR THE FOLLOWING DRAINS:

1. Evergreen- Farmington Sanitary Drain
2. Clinton River Water Resource Recovery Facility
3. Northwest Oakland Sanitary Sewer Drain
4. Acacia Park CSO Drain
5. Birmingham CSO Drain
6. Bloomfield Village CSO Drain
7. George W. Kuhn Drain
8. Joseph Jones Drain
9. Augusta Drain
10. Joachim Drain
11. Pontiac Clinton River No. 1 Drain
12. McCulloch Drain
13. Claude H. Stevens Drain
14. Daly Drain
15. Schmid Drain

NOTICE IS HEREBY GIVEN THAT MEETINGS OF THE DRAINAGE BOARD FOR THE ABOVE-MENTIONED DRAINS WILL COMMENCE IN THE OAKLAND COUNTY PUBLIC WORKS BUILDING, ONE PUBLIC WORKS DRIVE, WATERFORD, MICHIGAN, AND VIA **MICROSOFT TEAMS** AT 2:00 P.M., ON **TUESDAY, APRIL 25, 2023**, TO CONDUCT NECESSARY AND APPROPRIATE BUSINESS OF THE DRAIN BOARDS. THOSE THAT WISH TO PARTICIPATE REMOTELY MAY FOLLOW THE INSTRUCTIONS ATTACHED TO THIS NOTICE. ALL BOARD MEMBERS WILL BE PARTICIPATING IN-PERSON.

DURING THE MEETING, THERE WILL BE AN AGENDA ITEM FOR PUBLIC COMMENT, DURING WHICH THE PUBLIC MAY PROVIDE INPUT OR ASK QUESTIONS OF THE BOARD. IN THE EVENT A MEMBER OF THE PUBLIC WOULD LIKE TO SUBMIT THEIR INPUT OR QUESTIONS TO BE READ AT THE MEETING BY THE BOARD CHAIRPERSON, PLEASE PROVIDE THE INPUT OR QUESTIONS IN WRITING TO STEPHANIE LAJDZIAK AT LAJDZIAKS@OAKGOV.COM. PERSONS WITH DISABILITIES THAT NEED ASSISTANCE PARTICIPATING IN THE MEETING SHOULD CONTACT STEPHANIE LAJDZIAK AT LAJDZIAKS@OAKGOV.COM.

JIM NASH
Oakland County Water Resources Commissioner
Telephone: 248-858-0958

Posted by: April 18, 2023

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1. Clinton River Water Resource Recovery Facility

AGENDA
DRAINAGE BOARD FOR THE
CLINTON RIVER WATER RESOURCE RECOVERY FACILITY
FIRST MEETING FOR NEW DRAIN PROJECT

New Drain Project

City of Auburn Hills, Charter Township of Independence, City of Lake Angelus, Village of Lake Orion, Charter Township of Oakland, Charter Township of Orion, Charter Township of Oxford, Village of Oxford, City of Pontiac, City of Rochester, City of Rochester Hills, Charter Township of Waterford and Charter Township of West Bloomfield

April 25, 2023

1. Call meeting to order.
2. Approve minutes of meeting of March 28, 2023.
3. Public Comments.
4. Present petitions from the City of Auburn Hills and the Charter Township of Orion.
5. Resolution to:
 - A. Acknowledge consideration of petitions.
 - B. Determine that the drain project is necessary for the public health.
 - C. Designate public corporations to be assessed.
City of Auburn Hills
Charter Township of Independence
City of Lake Angelus
Village of Lake Orion
Charter Township of Oakland
Charter Township of Orion
Charter Township of Oxford
Village of Oxford
City of Pontiac
City of Rochester
City of Rochester Hills
Charter Township of Waterford
Charter Township of West Bloomfield
 - D. Name the drain project and the drainage district.
 - E. Set the time for the first hearing.

- F. Direct that notice be published in The Oakland Press.
- G. Direct that notice be mailed.
- 6. Resolution to appoint registered municipal advisor and bond counsel.
- 7. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$843,253.00
- 8. Other business.
- 9. Approve pro rata payment to Drainage Board members.
- 10. Adjourn.

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY**

March 28, 2023

A meeting of the Drainage Board for the Clinton River Water Resource Recovery Facility was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A memorandum from Razik Alsaigh, P.E., Civil Engineer III, dated March 28, 2023, requesting the Board approve the contract between the Drainage District and Ingersoll-Rand Industrial US Inc. in the amount of \$37,973.41 for air compressor units for three years of maintenance and as-needed repair and authorize the Chairperson to sign the contract was presented. It was moved by Markham, supported by Vaara, to approve the contract between the Drainage District and Ingersoll-Rand Industrial US Inc. in the amount of \$37,973.41 for air compressor units for three years of maintenance and as-needed repair and authorize the Chairperson to sign the contract as presented.

ADOPTED: Yeas - 2
Nays - 0

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,152,790.00 for the Clinton River Water Resource Recovery Facility (as attached) were presented. It was moved by Markham, supported by Vaara, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,152,790.00 as presented.

ADOPTED: Yeas - 2

Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$800,447.80 (as attached) was presented. It was moved by Markham, supported by Vaara, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$800,447.80.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Clinton River Water Resource Recovery Facility.



Anne Vaara, Chairperson

Dated: March 28, 2023

DRAINAGE BOARD FOR THE
CLINTON RIVER WATER RESOURCE RECOVERY FACILITY
FIRST MEETING FOR NEW DRAIN PROJECT

April 25, 2023

The first meeting of the Drainage Board for the hereinafter mentioned Oakland County, Michigan drain project was held at the office of the Oakland County Water Resources Commissioner, Waterford, Michigan, on April 25, 2023.

PRESENT: _____

ABSENT: _____

The meeting was called to order by the Chairperson.

Minutes of the meeting held March 28, 2023, were presented for consideration. It was moved by _____, supported by _____, that the minutes be approved.

ADOPTED: Yeas - _____

Nays - _____

Chairperson Nash asked if there were any public comments. There were _____.

The Chairperson presented to the Drainage Board the petitions referred to in the following resolution, attached to which petitions was a certified copy of each resolution of the respective governing body of the public corporation signing the same, authorizing the execution of the respective petition. The Chairperson stated that the petitions with the attached resolutions were filed in his office on April 6, 2023, by the City of Auburn Hills and on April 12, 2023, by the Charter Township of Orion. After examination and consideration of the petitions, by unanimous consent, they were ordered filed with the Chairperson.

The following resolution was offered by _____ and seconded by _____:

BE IT RESOLVED BY THE DRAINAGE BOARD FOR THE HEREINAFTER
MENTIONED OAKLAND COUNTY, MICHIGAN DRAIN PROJECT, as follows:

1. That this Drainage Board has considered the petitions and attached resolutions filed with the Oakland County Water Resources Commissioner on April 6, 2023, by the City of Auburn Hills and on April 12, 2023 by the Charter Township of Orion, which petitions are as follows:

[Remainder of page intentionally left blank]



At a regular meeting of the City Council of the City of Auburn Hills, Oakland County, Michigan, held in City Council Chamber at 1827 N. Squirrel Road, Auburn Hills, MI 48326 at 7:00 PM, on the 20th day of March, 2023, the following resolution was offered by Council Member Cionka and seconded by Council Member Verbeke:

9d. Motion – To approve the resolution to file Chapter 20 Petition for the Clinton River Water Resource Recovery Facility Optimization Project.

RESOLVED: To approve the resolution to file Chapter 20 Petition for the Clinton River Water Resource Recovery Facility Optimization Project. (Attachment B)

AYES: 6 (Carrier, Cionka, Knight, Marzolf, McDaniel, Verbeke)
NAYS: None
ABSENT: 1 (Hawkins)
ABSTENTIONS: None

RESOLUTION ADOPTED

STATE OF MICHIGAN)
COUNTY OF OAKLAND)

I, the undersigned, the duly appointed City Clerk for the City of Auburn Hills, Oakland County, Michigan do hereby certify that the foregoing is a true and complete copy of a resolution adopted at a regular meeting of the Auburn Hills City Council held on the 20th day of March, 2023.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 21st day of March, 2023.

Laura M. Pierce, City Clerk
City of Auburn Hills

ATTACHMENT B

At a *public* meeting of the *Council* of the *City of Auburn Hills*, Oakland County, Michigan held on *March 20, 2023*.

PRESENT: Council Members Carrier, Cionka, Knight, Marzolf, McDaniel, Verbeke

ABSENT: Council Member Hawkins

The following resolution was offered by Council Member Cionka and seconded by Council Member Verbeke :

Whereas: The Clinton River Water Resource Recovery Facility (the "Facility") contributes to the safety of the public health and environment by providing for surface water quality in the area served by the Facility, including the *City of Auburn Hills*; and

Whereas: Certain equipment at the Facility that is necessary to provide such surface water quality is aging and obsolete; and

Whereas: A Consent Judgment ordered by the Ingham County Circuit Court on July 24, 2009 (the "Judgment"), between the City of Pontiac and the Michigan Department of Environmental Quality (subsequently renamed as the Michigan Department of Environment, Great Lakes, and Energy) with respect to the Facility, requires completion of actions specified in the Judgment, pursuant to Part 31 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended, to bring the Facility into compliance with the Michigan Department of Environment, Great Lakes, and Energy's 2002 sanitary sewer overflow policy and clarification statement.

BE IT RESOLVED BY THE *COUNCIL OF THE CITY OF AUBURN HILLS*, OAKLAND COUNTY, MICHIGAN, as follows:

1. That the *City of Auburn Hills* make and cause to be filed a petition in form substantially as follows:

PETITION

TO THE DRAINAGE BOARD FOR THE HEREINAFTER DESCRIBED OAKLAND COUNTY, MICHIGAN CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN PROJECT

The undersigned public corporation hereby petitions for the location, establishment study, design and construction of an intra-county drain project consisting of improving the Clinton River Water Resource Recovery Facility, an intra-county drain for the treatment of sanitary sewage located in the City of Pontiac, and all improvements necessary to bring the Clinton River Water Resource Recovery Facility into compliance with the Consent Judgment ordered by the Ingham County Circuit Court on July 24, 2009, between the City of Pontiac and the Michigan Department of Environmental Quality (subsequently renamed as the Michigan Department of Environment, Great Lakes, and Energy) with respect to the Clinton River Water Resource Recovery Facility, which improvements shall include, without limitation, one or more of the following:

1. At the Auburn Resource Recovery Facility:
 - a. Additions to and/or refurbishments of the facility's peak flow storage capacity along with additions and modifications to the secondary clarifier processes that satisfactorily meet the requirements of the State of Michigan Department of Environmental, Great Lakes and Energy, as well as all work, rights of way, easements, sitework, equipment and appurtenances necessary or incidental thereto;
 - b. Improvements to pump stations and appurtenances related to the sewage treatment process, and the addition of new secondary clarifiers including all sludge conveyance related channels and pipes;
 - c. Installation of new piping, electrical, controls and modifications to the existing blower system including building modifications;
 - d. Improvements to electrical system, backup generators and cogeneration units to centralize the power supply; and installation of new switchgear, primary and secondary power lines, low & medium voltage, related electrical gear; and the removal and replacement of obsolete generators, electrical wiring, conduit, poles and equipment to optimize the plant power supply from DTE Energy to all buildings and components of the facilities along with related control work;
 - e. Biogas cleaning and scrubbing equipment and related infrastructure additions and improvements to maximize and optimize plant operations and efficiencies relating to the sludge digestion processes including digester modifications and the thermal and microbial hydrolysis treatment trains;
 - f. All work, rights of way, easements, sitework, electrical and mechanical improvements, equipment and appurtenances necessary or incidental thereto.

2. At the East Boulevard Recovery Facility: installation of new switchgear, primary and secondary power lines and gear; and removal and replacement of obsolete generators, electrical wiring, conduit, poles and equipment to optimize the plant power supply from DTE Energy to all buildings and components of the facilities along with related control work;

Said drain project is necessary for the public health, and will serve property located entirely within the limits of the City of Auburn Hills, the Charter Township of Independence, the City of Lake Angelus, the Village of Lake Orion, the Charter Township of Oakland, the Charter Township of Orion, the Charter Township of Oxford, the City of Pontiac, the City of Rochester, the City of Rochester Hills, the Charter Township of Waterford and the Charter Township of West Bloomfield (collectively, the "Communities"). The Clinton River Water Resource Recovery Facility receives, treats and discharges sanitary wastewater originating in the County of Oakland only.

This petition is filed pursuant to the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

It is understood and agreed that the entire cost of the drain project, including litigation costs and the amount of any judgment, arbitration award or settlement, to the extent such costs are payable by the proposed drainage district, is to be assessed against this petitioner and all other public corporations that benefit from the drain project and contribute to the conditions that make the drain project necessary.

A certified copy of the resolution of the governing body of *the City of Auburn Hills* authorizing execution of this petition is attached hereto.

CITY OF AUBURN HILLS

By: 
Mayor

By: 
Clerk

2. That the *Mayor* and *City Clerk* are authorized and directed to execute the petition for and on behalf of the *City of Auburn Hills* and to file the same with the Water Resources Commissioner of the County of Oakland.

3. That the *City Council* hereby consents to the assessment of its share of the entire cost of the drain project against the *City*.

4. That the *City* agrees that it will pay its share of the costs incurred by the Oakland County Water Resources Commissioner or by the drainage district contemplated herein in the event the drain or any portion thereof, for any reason, is not constructed.

5. The *City* acknowledges that the County of Oakland, its Board of Commissioners, and the Oakland County Water Resources Commissioner will not contribute to the cost of the drain project or its operation and maintenance except to the extent that the County of Oakland may be assessed for the cost of the drain project or may agree to contribute to the cost of the drain project in accordance with the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

6. That all prior resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

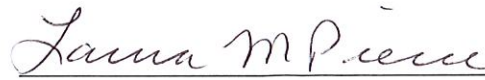
ADOPTED: Yeas - 6 (Carrier, Cionka, Knight, Marzolf, McDaniel, Verbeke)

Nays - None

STATE OF MICHIGAN)
) SS

COUNTY OF OAKLAND)

I hereby certify that that foregoing is a true and complete copy of a resolution adopted by the *Council* of the *City of Auburn Hills*, Oakland County, Michigan, at a *public* meeting held on *March 20, 2023*, the original of which is on file in my office. I certify further that notice of the meeting was given and such meeting was conducted in accordance with the Open Meetings Act.



City Clerk

City of Auburn Hills

**CHARTER TOWNSHIP OF ORION
COUNTY OF OAKLAND STATE OF MICHIGAN**

**RESOLUTION TO PETITION FOR CLINTON RIVER WATER
RESOURCE RECOVERY FACILITY DRAIN PROJECT**

At a regular meeting of the Township Board of the Charter Township of Orion, Oakland County, Michigan (the "Township"), held on the 20th day of March, 2023.

PRESENT:

ABSENT:

The following Resolution was offered by Flood and seconded by Urbanowski:

WHEREAS, The Clinton River Water Resource Recovery Facility (the "Facility") contributes to the safety of the public health and environment by providing for surface water quality in the area served by the Facility, including the Charter Township of Orion; and

WHEREAS, Certain equipment at the Facility that is necessary to provide such surface water quality is aging and obsolete; and

WHEREAS, A Consent Judgment ordered by the Ingham County Circuit Court on July 24, 2009 (the "Judgment"), between the City of Pontiac and the Michigan Department of Environmental Quality (subsequently renamed as the Michigan Department of Environment, Great Lakes, and Energy) with respect to the Facility, requires completion of actions specified in the Judgment, pursuant to Part 31 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended, to bring the Facility into compliance with the Michigan Department of Environment, Great Lakes, and Energy's 2002 sanitary sewer overflow policy and clarification statement.

BE IT RESOLVED By the Township Board of Trustees of the Township of Orion, Oakland County, Michigan, as follows:

1. That the Charter Township of Orion make and cause to be filed a petition in form substantially as follows:

PETITION

TO THE DRAINAGE BOARD FOR THE HEREINAFTER DESCRIBED OAKLAND COUNTY, MICHIGAN CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN PROJECT

The undersigned public corporation hereby petitions for the location, establishment study, design and construction of an intra-county drain project consisting of improving the Clinton River Water Resource Recovery Facility, an intra-county drain for the treatment of sanitary sewage located in the City of Pontiac, and all improvements necessary to bring the Clinton River Water Resource Recovery Facility into compliance with the Consent Judgment ordered by the Ingham County Circuit Court on July 24, 2009, between the City of Pontiac and the Michigan Department of Environmental Quality (subsequently renamed as the Michigan Department of Environment, Great Lakes, and Energy) with respect to the Clinton River Water Resource Recovery Facility, which improvements shall include, without limitation, one or more of the following:

1. At the Auburn Resource Recovery Facility:
 - a. Additions to and/or refurbishments of the facility's peak flow storage capacity along with additions and modifications to the secondary clarifier processes that satisfactorily meet the requirements of the State of Michigan Department of Environmental, Great Lakes and Energy, as well as all work, rights of way, easements, sitework, equipment and appurtenances necessary or incidental thereto;
 - b. Improvements to pump stations and appurtenances related to the sewage treatment process, and the addition of new secondary clarifiers including all sludge conveyance related channels and pipes;
 - c. Installation of new piping, electrical, controls and modifications to the existing blower system including building modifications;
 - d. Improvements to electrical system, backup generators and cogeneration units to centralize the power supply; and installation of new switchgear, primary and secondary power lines, low & medium voltage, related electrical gear; and the removal and replacement of obsolete generators, electrical wiring, conduit, poles and equipment to optimize the plant power supply from DTE Energy to all buildings and components of the facilities along with related control work;
 - e. Biogas cleaning and scrubbing equipment and related infrastructure additions and improvements to maximize and optimize plant operations and efficiencies relating to the sludge digestion processes including digester modifications and the thermal and microbial hydrolysis treatment trains;
 - f. All work, rights of way, easements, sitework, electrical and mechanical improvements, equipment and appurtenances necessary or incidental thereto.

2. At the East Boulevard Recovery Facility: installation of new switchgear, primary and secondary power lines and gear; and removal and replacement of obsolete generators, electrical wiring, conduit, poles and equipment to optimize the plant power supply from DTE Energy to all buildings and components of the facilities along with relate control work.

Said drain project is necessary for the public health, and will serve property located entirely within the limits of the City of Auburn Hills, the Charter Township of Independence, the City of Lake Angelus, the Village of Lake Orion, the Charter Township of Oakland, the Charter Township of Orion, the Charter Township of Oxford, the City of Pontiac, the City of Rochester, the City of Rochester Hills, the Charter Township of Waterford and the Charter Township of West Bloomfield (collectively, the "Communities"). The Clinton River Water Resource Recovery Facility receives, treats and discharges sanitary wastewater originating in the County of Oakland only.

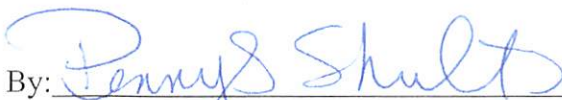
This petition is filed pursuant to the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

It is understood and agreed that the entire cost of the drain project, including litigation costs and the amount of any judgment, arbitration award or settlement, to the extent such costs are payable by the proposed drainage district, is to be assessed against this petitioner and all other public corporations that benefit from the drain project and contribute to the conditions that make the drain project necessary.

A certified copy of the Resolution of the governing body of the Charter Township of Orion authorizing execution of this petition is attached hereto.

CHARTER TOWNSHIP OF ORION

By: 
Chris Barnett, Supervisor

By: 
Penny S. Shults, Clerk

2. That the Supervisor and Township Clerk are authorized and directed to execute the petition for and on behalf of the Township Orion and to file the same with the Water Resources Commissioner of the County of Oakland.

3. That the Township Board of Trustees hereby consents to the assessment of its share of the entire cost of the drain project against the Township.

4. That the Township agrees that it will pay its share of the costs incurred by the Oakland County Water Resources Commissioner or by the drainage district contemplated herein in the event the drain or any portion thereof, for any reason, is not constructed.

5. The Township of Orion acknowledges that the County of Oakland, its Board of Commissioners, and the Oakland County Water Resources Commissioner will not contribute to the cost of the drain project or its operation and maintenance except to the extent that the County of Oakland may be assessed for the cost of the drain project or may agree to contribute to the cost of the drain project in accordance with the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

6. That all prior resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

RESOLUTION DECLARED ADOPTED.

YEAS: 7

NAYS: 0

ABSTENTIONS: 0

CERTIFICATION

STATE OF MICHIGAN)
) ss
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of a Resolution adopted at a regular meeting of the Charter Township of Orion, Oakland County, Michigan, on the 20th day of March, 2023, the original of which is on file in my office.

IN WITNESS WHEREOF, I have hereunto affixed my official signature this 21 day of March 2023.



Clerk Penny Shults
Charter Township of Orion

2. That this Drainage Board determines that the sanitary wastewater to be carried by the proposed drain project originates in the County of Oakland only; and that the drain project is necessary for the public health.

3. That this Drainage Board tentatively determines that the petitions are sufficient; that the drain project proposed therein is practical; and that the following public corporations be assessed to pay the cost of the project to wit:

City of Auburn Hills
Charter Township of Independence
City of Lake Angelus
Village of Lake Orion
Charter Township of Oakland
Charter Township of Orion
Charter Township of Oxford
Village of Oxford
City of Pontiac
City of Rochester
City of Rochester Hills
Charter Township of Waterford
Charter Township of West Bloomfield

4. That the name “CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN OPTIMIZATION PROJECT” is hereby given to the drain project and the name “CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAINAGE DISTRICT” is confirmed as the drainage district therefor.

5. That this Drainage District shall meet on the ____ day of _____, 2023, at ____:____.m., prevailing Eastern Time at the Office of the Oakland County Water Resources Commissioner, Waterford, Michigan, for the purpose of hearing any objections to the aforementioned drain project, to the petitions therefor, and to the matter of assessing the cost of the drain project to the public corporations above named; that following said hearing this Drainage Board may issue a Final Order of Determination with respect to the practicability of the

aforementioned drain project, the petitions therefor and the matter of assessing the cost of the drain project to the public corporations above named, and that, pursuant to Act 40, Public Acts of Michigan, 1956, as amended (the "Drain Code"), once a Final Order of Determination is issued, no public corporation may be eliminated from or added to those tentatively determined to be assessed, without a rehearing after notice.

6. That a notice of said meeting shall be prepared which notice shall contain the information required by the Drain Code and shall be published twice in The Oakland Press, a newspaper published in the County of Oakland, State of Michigan, the first publication to be not less than twenty (20) days prior to the time of the hearing.

7. That the notice shall be sent by registered or certified mail to the Clerk of each of the City of Auburn Hills, Charter Township of Independence, City of Lake Angelus, Village of Lake Orion, Charter Township of Oakland, Charter Township of Orion, Charter Township of Oxford, Village of Oxford, City of Pontiac, City of Rochester, City of Rochester Hills, Charter Township of Waterford and Charter Township of West Bloomfield, which mailing shall be made not less than twenty (20) days prior to the time of the hearing.

ADOPTED: Yeas - _____

Nays - _____

It was moved by _____ and supported by _____ that the following be appointed to act in the following capacities in connection with the proposed drain project:

Municipal Financial Consultants, Inc., as registered municipal advisor.
Dickinson Wright PLLC, Troy, Michigan, as bond counsel.

ADOPTED: Yeas - _____

Nays - _____

It was moved by _____, supported by _____, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - _____

Nays - _____

Upon motion by _____, seconded by _____ and unanimously adopted, the meeting was adjourned.

Chairperson

April 25, 2023

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of the minutes of a meeting of the Drainage Board for the Clinton River Water Resource Recovery Facility Drain Optimization Project, Oakland County, Michigan, held on April 25, 2023, and that the minutes are on file in the offices of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that notice of the meeting was given in accordance with the Open Meetings Act.

Chairperson of the Drainage Board

Dated: April 25, 2023

4881-6126-8299 v3 [9007-447]

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Maintenance)

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting *For Shawn Phelps*

DATE: April 25, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of charges paid from the Drain Revolving Fund and Invoices

Payable To	Ref No.	For	Amount
Atlas Copco Compressors LLC	V # SINV00172102	Invoice # 1123030098 - Material and Supplies	\$ 2,729.13
AIS Construction Equipment	V # SINV00173413	Invoice # Y02576 - Contracted Services	12,570.85
Cambi Inc	TBP	Invoice # 609810-SP-020 - Material and Supplies	17,398.17
Cambi Inc	TBP	Invoice # 609810-SP-023 - Material and Supplies	5,396.98
CleanNet of Greater Michigan, Inc	TBP	Invoice # DET0104736 - Contracted Services - April 2023	1,601.38
CSM Mechanical LLC	V # SINV00175032	Invoice # 22-896.2 - Contracted Services	3,305.00
D3W Industries	V # SINV00173406	Invoice # 3761 - Material and Supplies	5,824.00
D3W Industries	V # SINV00173408	Invoice # 3776 - Material and Supplies	5,720.00
D3W Industries	V # SINV00173409	Invoice # 3795 - Material and Supplies	5,720.00
Haviland Products Company	V # SINV00175020	Invoice # 466665 - Chemical Treatment	10,567.00
Haviland Products Company	TBP	Invoice # 467624 - Chemical Treatment	6,051.00
Jones Chemicals Inc	V # SINV00173412	Invoice # 909112 - Chemical Treatment	6,486.09
Jones Chemicals Inc	V # SINV00175854	Invoice # 910117 - Chemical Treatment	6,845.42
Jones Chemicals Inc	V # SINV00175045	Invoice # 910339 - Chemical Treatment	3,122.31
LaSalle Agri Inc	TBP	Invoice # 1372 - Contracted Services	3,000.00
LaSalle Agri Inc	TBP	Invoice # 1390 - Contracted Services	4,254.25
LaSalle Agri Inc	TBP	Invoice # 1391 - Contracted Services	21,511.70
Limbach Company LLC	V # SINV00173405	Invoice # 16319 - Contracted Services	1,700.00
Paragon Laboratories	V # SINV00175048	Invoice # 104420-233980 - Lab Fees	1,133.00
Paragon Laboratories	V # SINV00175046	Invoice # 104420-233690 - Lab Fees	1,133.00
PVS Technologies Inc	V # SINV00175049	Invoice # 329853 - Chemical Treatment	2,797.44
PVS Technologies Inc	V # SINV00175050	Invoice # 330202 - Chemical Treatment	5,563.88
PVS Technologies Inc	V # SINV00173415	Invoice # 330397 - Chemical Treatment	2,894.16
PVS Technologies Inc	TBP	Invoice # 331384 - Chemical Treatment	2,491.16
Tetra Tech, Inc	TBP	Invoice # 52051674 - Contracted Services	1,170.00
Waste Management	V # SINV00173417	Invoice # 8672106-1714-0 Garbage & Rubbish Disposal	1,905.11
Waste Management	V # SINV00173418	Invoice # 8672133-1714-4 Garbage & Rubbish Disposal	1,621.73
Subtotal			\$ 144,512.76
Jacobs Consultants, Inc	V # SINV00173253	Invoice # C6A21700-03 - Engineering Survey - Proj # 1-7239	\$ 664,140.95
JMK Engineering Inc	V # SINV00170492	Invoice # 1456 - Professional Services - 02/28/23 - Proj # 1-7239	6,638.50
Mersino Dewatering LLC	V # SINV00174616	Invoice # 102820 - Equipmental Rental - Proj # 1-7239	10,789.99
Subtotal - Project 1-7239			\$ 681,569.44
Fishbeck	V # SINV00172502	Invoice # 421497 - Engineering Services - 03/17/23 - Proj # 1-3492	\$ 186.00
Subtotal - Project 1-3492			\$ 186.00
Dickinson Wright PLLC	V # SINV00174633	Invoice # 1786361 - Legal Services - 02/28/23 - Proj # 1-7239	\$ 395.00
Dickinson Wright PLLC	V # SINV00175044	Invoice # 1777950 - Legal Services - 01/31/23 - Proj # 1-7239	\$ 16,590.00
Subtotal - Project 1-7239			\$ 16,985.00
Total			\$ 843,253.20

2. Evergreen-Farmington Sanitary Drain

AGENDA

DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Meadowbrook Insurance Agency Insurance Proposal
5. Present Memorandum from Gary Nigro, P.E., Manager, dated April 25, 2023, requesting the Board approve the proposed operating budget and sewer charges (Exhibit A), cost allocation (Exhibit B), and the Capital Improvement Program (Exhibit C) for the rate year beginning July 1, 2023
6. Present Memorandum from Lesli Maes, Operations Engineer, dated April 25, 2023, requesting the Board approve the Drainage District projects listed using funds from Major Maintenance and Capital Improvement reserves
7. Present Change Order No. 2 for Pipeline Management Company, LLC for Construction of the S. Evergreen Interceptor Rehabilitation for a net increase in the amount of \$114,720.50
8. Present Change Order No. 1 for Lawrence M. Clarke, Inc. for Construction of the Walnut Lake No. 3 Pump Station Rehabilitation for a net increase in the amount of \$57,260.27
9. Present Construction Estimate No. 6 for Pipeline Management Company, LLC for the S. Evergreen Interceptor Rehabilitation in the amount of \$118,984.47 with a transfer to the Oakland County Treasurer in the amount of \$5,736.03
10. Present Construction Estimate No. 3 for Lawrence M. Clarke, Inc. for Construction of the Walnut Lake No. 3 Pump Station Rehabilitation in the amount of \$54,397.26 with a transfer to the Oakland County Treasurer in the amount of \$2,863.01
11. Present Construction Estimate No. 13 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$616,168.19 with a transfer to the Oakland County Treasurer in the amount of \$68,463.13
12. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,736.68
13. Other business
14. Approve pro rata payment to Drainage Board members

15. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE EVERGREEN -FARMINGTON SANITARY DRAIN**

March 28, 2023

A meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A memorandum from Joel Kohn, Environmental Planner, dated March 28, 2023, requesting the Board approve \$50,000 for Alliance for Rouge Communities (ARC) staff to complete sampling work within the Drainage District through the 2023 sampling season was presented. It was moved by Markham, supported by Vaara, to approve \$50,000 for Alliance for Rouge Communities (ARC) staff to complete sampling work within the Drainage District through the 2023 sampling season as presented.

ADOPTED: Yeas - 2
Nays - 0

Construction Estimate No. 12 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$173,894.63 with a transfer to the Oakland County Treasurer in the amount of \$19,321.63 was presented. It was moved by Markham, supported by Vaara, to approve Construction Estimate No. 12 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$173,894.63 with a transfer to the Oakland County Treasurer in the amount of \$19,321.63 as presented.

ADOPTED: Yeas - 2
Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$54,439.94 (as attached) was presented. It was moved by Markham, supported by Vaara to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$54,439.94.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Evergreen-Farmington Sanitary Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Evergreen-Farmington Sanitary Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023



Evergreen-Farmington Sanitary Drain Drainage District

Building 95 West, One Public Works Drive, Waterford, MI 48328

Insurance Proposal for Property, General Liability, Excess Liability, and Pollution Liability Coverage

4/27/2023

to

4/27/2024

(Dated 4/20/23)

Evergreen-Farmington Sanitary Drain Drainage District

Executive Summary 4/27/2023 to 4/27/2024

Insurance Renewal Summary

We have completed the renewal process for the operational insurance program renewing April 27th, 2023. The hardening marketplace continues to be a major challenge through most lines of coverage, with carriers reducing capacity, increasing rates and in some cases, withdrawing from certain segments of the market altogether. Our objective is always to provide the broadest coverage at the most competitive pricing.

From the table below, the total renewal premium for the April insurance policies increased from \$684,999 to \$747,815 (+9.17% total) at renewal. Some notable points regarding the marketing of the 2023 insurance renewals are:

- Property Coverage: The Chubb property policy is currently at the expiration of a (2) year term through 2023. We heavily sought alternatives this year however based on appetite, coverage, and price. Chubb was the best carrier to place the coverage. Chubb originally wanted a rate increase of +10% to accompany the engineering news record cost of construction increase of +5.5%, we leveraged competition and relationship to negotiate with Chubb to reduce the rate increase from +10% to +7%. The property premium has *increased 12.5%* for this renewal, which includes the 5.5% Engineering News Record Construction Cost Index value increase, and a 7% property rate increase putting the total annual premium at \$284,801. Chubb is no longer offering the 2-year terms moving forward so the policy will be reviewed and negotiated annually moving forward. The next closest carrier in pricing was XL providing optional pricing at \$400,000 which was not remotely competitive to Chubb with several other carriers declining to offer options on the coverage (see marketing table below). Reinsurance treaties, natural disasters, and overall industry performance has resulted in average increases from 10%-25% on property insurance from an insurance rate basis not considering increased costs of construction.
- Public Entity (PE) Liability: This year we were able to secure three considerable quotes from Lexington (incumbent), Trident and Liberty Mutual on the public entity liability. At first glance the alternative options to Lexington looked competitive, however after a robust coverage comparison was performed it was determined there were several coverage issues with the two alternatives that at this time could not be overcome (outlined in comparison below). The public entity marketplace continues to see considerable disruption in rate, coverage, and reduced capacity for limits, however, there seems to be movement in the market and new carriers starting to enter the space. Moving forward there could be potential viable alternatives as these carriers strengthen their coverage offerings to be competitive with needed coverage. Lexington's renewal is at \$137,905 which is a 5.5% increase over expiring.

Executive Summary (cont.)

- Pollution Liability: The renewal coverage was quoted through Chubb insurance at \$88,837 premium, which reflects a 4.6% increase over the expiring term. Chubb is one of the leaders in the pollution marketplace and offered a reasonable renewal.

	Expiring Program	Renewal (Recommended)	Renewal Option #1	Renewal Option #2
Term	04/27/2022-2023	04/27/2023-2024	04/27/2023-2024	04/27/2023-2024
Carrier	Lexington (AIG)/Homesite/HDI/Hallmark	Lexington (AIG)/Homesite/HDI/Hallmark	Trident (Arch)/Homesite/HDI/Hallmark	Liberty Mutual (Arch)/Homesite/HDI/Hallmark
Form Type	Occurrence	Occurrence	GL Occurrence/POL Claims Made	Occurrence
Primary Limit	\$1,000,000	\$1,000,000	\$5,000,000	\$5,000,000
1st Excess Limit	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
2nd Excess Limit	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
3rd Excess Limit	\$5,000,000	\$5,000,000	n/a	n/a
Limits	\$21,000,000 (Each General Liability and Public Officials)	\$21,000,000 (Each General Liability and Public Officials)	\$20,000,000 (Combined General Liability and Public Officials)	\$20,000,000 (Combined General Liability and Public Officials)
Retention	\$250,000	\$250,000	\$250,000	\$250,000
Primary Premium	\$123,000	\$129,857	\$149,539	\$122,664
1st Excess Premium	\$122,903	\$137,906	\$137,906	\$137,906
2nd Excess Premium	\$49,620	\$54,141	\$54,141	\$54,141
3rd Excess Premium	\$52,275	\$52,275		
TPA Fee	\$1,500	\$1,500	\$10,000	
Premium	\$349,298	\$375,678	\$351,586	\$314,711
Percentage Change		8%	1%	-10%
<u>Defense Costs</u>	GL - Outside the limit, POL - Inside the limit	GL - Outside the limit, POL - Inside the limit	GL - Outside the limit, POL - Inside the limit	GL - Outside the limit, POL - Inside the limit
<u>Duty to Defend</u>	Right and Duty	Right and Duty	Right, but not Duty	Right and Duty
<u>How Limits Apply</u>	Separate Aggregate	Separate Aggregate	Shared Aggregate Excess	Shared Aggregate Excess
<u>Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you.</u>	Yes	Yes	Yes	Yes
<u>Earth Movement (Subsidence)</u>				
<u>Exclusion – applies to Property Damage liability only (does not exclude Bodily Injury)</u>	Exclusion for Property Damage Only (no Exclusion for Bodily Injury)	Exclusion for Property Damage Only (no Exclusion for Bodily Injury)	Full Exclusion for Property Damage and Bodily Injury	No Exclusion for Bodily Injury or Property Damage

Evergreen-Farmington Sanitary Drain Drainage District

Marketing Summary

4/27/2023 to 4/27/2024

Carrier	Line of Coverage	Status	Notes/Comments
Chubb	Property	Renewal Quoted	Renewal quoted at \$284,801
XL	Property	Quoted	Reviewed and provided an indication starting at \$400,000 to consider risk. As this was not remotely competitive to current pricing we requested they close their file.
Arch	Property	Declined	Not a fit for Arch due to underground property
Zurich	Property	Declined	Not in appetite
Travelers	Property	Declined	Not a market for this schedule due to underground property.
The Hartford	Property	Declined	Not in appetite due to underground exposure. Will consider some incidental value on large municipal schedules.
Liberty	Public Entity	Declined	Public Entity Declined the Property due to the TIV being too large for consideration.
Liberty	Large Property	Declined	Declination based on appetite.
Allianz	Property	Declined	Declination based on appetite.
Allianz	Energy & Utility Unit	Declined	Not a fit for this type of operational coverage
Nationwide	Property	Declined	Not a market for underground property programs with loss limits.
AFM (Affiliated FM)	Property	Declined	Below ground horizontal sewage/drain systems not in appetite. Very limited appetite for underground.
Trident	Property	Declined	Declined - TIV outside of appetite
Lexington (AIG)	Liability & Public Entity	Renewal Quoted	Renewal Quoted - \$129,857
Trident	Liability & Public Entity	Option Quoted	Quote provided at \$149,539 including 4M excess liability over primary. Notable coverage issues as outlined in coverage summary.
Liberty	Liability & Public Entity	Option Quoted	Quote provided at \$122,664 including 4M excess liability over primary. Notable coverage issues as outlined in coverage summary.
Homesite (APR)	Excess Liability (10M)	Renewal Quoted	Renewal Quoted - \$137,905
HDI Global	Excess Liability (5M x 10M)	Renewal Quoted	Renewal Quoted - \$54,140
Hallmark	Excess Liability (5M x 15M)	Renewal Quoted	Renewal Quoted - \$52,275
Ambridge	Excess Liability	Declined	Cannot compete with current and renewal pricing
Arch	Excess Liability	Declined	Cannot compete with current and renewal pricing
Allied World	Excess Liability	Declined	Cannot compete with current and renewal pricing
Berkley	Excess Liability	Declined	Minimum premiums higher then current and renewal pricing
IAT	Excess Liability	Declined	Cannot compete with current and renewal pricing
Markel	Excess Liability	Declined	District population too large
McGowan	Excess Liability	Declined	Unable to provide excess Public Officials, GL Only.
RSUI	Excess Liability	Declined	Cannot compete with current and renewal pricing
The Hartford	Excess Liability	Declined	Cannot compete with current and renewal pricing
Westchester	Excess Liability	Declined	Cannot compete with current and renewal pricing
W.H. Greene	Excess Liability	Declined	Cannot compete with current and renewal pricing
Chubb	Pollution	Renewal Quoted	Renewal Quoted - \$88,837

Evergreen-Farmington Sanitary Drain Drainage District

4/27/2023 to 4/27/2024

Premium Summary

POLICIES	Expiring 2022-2023	Proposed 2023-2024	Percentage Change
Property ACE American Ins. Co. \$50M Limit \$250k SIR	\$252,293 TIV: \$1,760,287,912 Rate: .01433	\$284,801 TIV: \$1,857,103,747 Rate: .01533	5.5% Increase in TIV 7% Increase in Rate
Public Entity Liability	\$123,000 Lexington Ins. Co. \$1M Per Occurrence Limit \$1M Aggregate Policy Limit \$1M E&O Limit \$250k SIR	\$129,857 Lexington Ins. Co. \$1M Per Occurrence Limit \$2M Aggregate Policy Limit \$2M E&O Limit \$250k SIR	5.5% Increase in Rate
1 st Excess Liability Layer Homesite Insurance Company	\$122,903 \$10M Per Occurrence Limit \$10M Aggregate Limit	\$137,905 \$10M Per Occurrence Limit \$10M Aggregate Limit	12.2% Increase in Rate
2 nd Excess Liability Layer HDI Global Specialty SE	\$49,620 \$5M Per Occurrence Limit \$5M Aggregate Limit	\$54,140 \$5M Per Occurrence Limit \$5M Aggregate Limit	4.4% Increase in Rate for excess 10M total
3 rd Excess Liability Layer Hallmark Specialty Ins. Co.	\$52,275 \$5M Per Occurrence Limit \$5M Aggregate Limit	\$52,275 \$5M Per Occurrence Limit \$5M Aggregate Limit	
Pollution Liability \$10M ACE American Ins. Co. \$10M Per Event Limit \$10M Aggregate Limit \$250k Deductible	\$84,908	\$88,837	4.6% Increase in Rate
TOTAL	\$684,999	\$747,815	9.17% Increase in overall premium

[1] Lexington Insurance requires the use of AIG's TPA Services which will carry an additional service fee of \$1,500.

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairperson
Evergreen-Farmington Sanitary Drain Drainage District

FROM: Gary Nigro, P.E., Manager 

SUBJECT: FY 2023-2024 Rate Recommendation

DATE: April 25, 2023

The purpose of this memorandum is to communicate a recommendation to the Board of the Evergreen Farmington Sanitary Drain Drainage District (EFSD) detailing the proposed monthly charges to our customer communities based on approved Great Lakes Water Authority (GLWA) monthly charges for its fiscal 2023-24 rate year.

The attached exhibits highlighting the proposed budget, sewer charges, cost allocation and capital improvement plan were presented to the EFSD customer communities on April 13, 2023.

The proposed budget and sewer charges are attached in Exhibit A. Because of increases in operating expenses the total annual charge to communities will increase 3.2% to \$52,019,650.

The proposed cost allocation to each community for operation and maintenance charges is included in Exhibit B. The methodology will remain the same as previous years, based on a rolling five-year flow average.

The proposed major maintenance and capital improvement plan is included in Exhibit C.

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

EXHIBIT A

PROPOSED OPERATING BUDGET AND SEWER CHARGES

Evergreen Farmington Sewage Disposal System

58410

Financial Summary

	2022 Actual	2023 Budget	2024 Forecast	Inc / (Dec)	% Variance
<u>Operating Revenues</u>					
Operating Rate Revenue	\$ 40,975,636.93	\$ 41,558,580.00	\$ 43,176,570.00	\$ 1,617,990.00	3.9%
Operating Non-Rate Revenue	2,272,810.08	523,210.00	373,270.00	(149,940.00)	-28.7%
Operating Revenues	<u>\$ 43,248,447.01</u>	<u>\$ 42,081,790.00</u>	<u>\$ 43,549,840.00</u>	<u>\$ 1,468,050.00</u>	<u>3.5%</u>
<u>Operating Expenses</u>					
Sewage Treatment	\$ 35,876,484.98	\$ 36,195,600.00	\$ 37,192,800.00	\$ 997,200.00	2.8%
Sewer System Maintenance	580,497.61	491,940.00	479,870.00	(12,070.00)	-2.5%
Sewer System Engineering	294,909.68	330,460.00	320,670.00	(9,790.00)	-3.0%
Water Purchases	-	-	-	-	
Water Maintenance Unit	1,065.19	-	-	-	
Water Systems Engineering	-	-	-	-	
Septage Unloading Facility	248,128.20	278,200.00	259,100.00	(19,100.00)	-6.9%
Pump Maintenance Unit	1,249,488.89	1,250,120.00	1,347,120.00	97,000.00	7.8%
Systems Control Unit	1,436,341.15	1,552,240.00	1,512,680.00	(39,560.00)	-2.5%
Plan Review and Permitting	202,349.95	130,680.00	169,520.00	38,840.00	29.7%
Inspection	8,444.89	12,350.00	7,980.00	(4,370.00)	-35.4%
IPP	-	-	-	-	
Laboratory	-	-	-	-	
Mapping Unit	29,756.99	46,920.00	28,440.00	(18,480.00)	-39.4%
Miss Dig	1,752.25	790.00	1,150.00	360.00	45.6%
Billing Services Unit	-	-	-	-	
General and Administrative	2,802,636.92	1,792,490.00	2,230,510.00	438,020.00	24.4%
Total Operating Expenses	<u>42,731,856.70</u>	<u>42,081,790.00</u>	<u>43,549,840.00</u>	<u>1,468,050.00</u>	<u>3.5%</u>
Net Income	<u>\$ 516,590.31</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	
Depreciation	-	(858,930.00)	-	858,930.00	-100.0%
<u>Reserves</u>					
Non-Operating Revenue	\$ 1,329,903.09	\$ 1,256,440.00	\$ 1,251,620.00	\$ (4,820.00)	-0.4%
Non-Operating Expense	742,683.43	(235,110.00)	(212,550.00)	22,560.00	-9.6%
Major Maintenance Reserve Revenue	1,390,578.75	1,391,460.00	1,391,460.00	-	0.0%
Major Maintenance Reserve Expense	(2,110,660.38)	(3,013,680.00)	(3,022,090.00)	(8,410.00)	0.3%
Emergency Reserve Revenue	-	-	-	-	
Emergency Reserve Expense	(6,301.50)	-	-	-	
Capital Reserve Revenue	5,513,438.51	6,200,000.00	13,200,000.00	7,000,000.00	112.9%
Capital Reserve Expense	(3,263,648.21)	(11,080,470.00)	(10,618,890.00)	461,580.00	-4.2%
Change in Net Assets	<u>\$ 4,112,584.00</u>	<u>\$ (6,340,290.00)</u>	<u>\$ 1,989,550.00</u>	<u>\$ 8,329,840.00</u>	<u>-131.4%</u>
<u>Rate Revenue</u>					
Revenue Requirements:					
Operating Expense	\$ 42,731,856.70	\$ 42,081,790.00	\$ 43,549,840.00	\$ 1,468,050.00	3.5%
Non-Operating	1,329,903.09	1,256,440.00	1,251,620.00	(4,820.00)	-0.4%
Major Maintenance	1,390,578.75	1,391,460.00	1,391,460.00	-	0.0%
Emergency Maintenance	-	-	-	-	
Capital	5,513,438.51	6,200,000.00	13,200,000.00	7,000,000.00	112.9%
Total Revenue Requirements	<u>\$ 50,965,777.05</u>	<u>\$ 50,929,690.00</u>	<u>\$ 59,392,920.00</u>	<u>\$ 8,463,230.00</u>	<u>16.6%</u>
Non-Rate Revenue	<u>\$ (2,351,707.75)</u>	<u>\$ (523,210.00)</u>	<u>\$ (7,373,270.00)</u>	<u>\$ (6,850,060.00)</u>	<u>1309.2%</u>
Rate Required Revenue	<u>\$ 48,614,069.30</u>	<u>\$ 50,406,480.00</u>	<u>\$ 52,019,650.00</u>	<u>\$ 1,613,170.00</u>	<u>3.2%</u>

Evergreen Farmington Sanitary Drainage District, Effective July 1, 2023

Monthly Charge Breakdown

	<u>Effective July 1, 2023</u>
GLWA Fixed Charge	\$ 37,192,800.00
OCWRC Fixed Charge ⁽¹⁾	6,357,040.00
Non-Operating	1,251,620.00
Major Maintenance Reserve	1,391,460.00
Emergency Reserve	-
Capital Improvement Reserve	6,200,000.00
Misc Revenue	(373,270.00)
Total Charge:	52,019,650.00

	<u>Effective July 1, 2023</u>	<u>Effective July 1, 2023</u>
	<u>Annual Charge</u>	<u>Monthly Charge</u>
Auburn Hills	\$ 382,864	\$ 31,905.34
Beverly Hills	2,312,273	192,689.42
Bingham Farms	307,956	25,663.01
Birmingham	3,970,140	330,845.00
Bloomfield Hills	1,274,482	106,206.83
Bloomfield Township	9,261,058	771,754.84
Franklin	260,619	21,718.25
Lathrup Village	1,074,726	89,560.49
Southfield	9,632,479	802,706.59
Troy	2,173,901	181,158.42
Farmington	416,157	34,679.76
Farmington Hills	12,097,170	1,008,097.49
Keego Harbor	435,925	36,327.09
Orchard Lake Village	459,334	38,277.84
West Bloomfield Township	6,543,551	545,295.91
Acacia Park RTB	414,077	34,506.42
Birmingham RTB	439,046	36,587.17
Bloomfield RTB	563,892	46,991.00
Total	\$ 52,019,650	\$ 4,334,970.87

Evergreen Farmington Sanitary Drainage District, Effective July 1, 2023
Share & Monthly Charge Comparison

	FY 2022-2023 (July - June)		FY 2023-2024 (July - June)		% Change Mthly Charge
	Share % of System	Monthly Charge	Share % of System	Monthly Charge	
Auburn Hills	0.757%	\$ 31,798.09	0.736%	\$ 31,905.34	0.3%
Beverly Hills	4.435%	186,293.92	4.445%	192,689.42	3.4%
Bingham Farms	0.574%	24,111.16	0.592%	25,663.01	6.4%
Birmingham	7.360%	309,159.68	7.632%	330,845.00	7.0%
Bloomfield Hills	2.436%	102,325.16	2.450%	106,206.83	3.8%
Bloomfield Township	17.345%	728,583.75	17.803%	771,754.84	5.9%
Franklin	0.518%	21,758.75	0.501%	21,718.25	-0.2%
Lathrup Village	2.072%	87,035.16	2.066%	89,560.49	2.9%
Southfield	18.936%	795,414.24	18.517%	802,706.59	0.9%
Troy	4.207%	176,716.75	4.179%	181,158.42	2.5%
Farmington	0.780%	32,764.18	0.800%	34,679.76	5.8%
Farmington Hills	23.447%	984,900.66	23.255%	1,008,097.49	2.4%
Keego Harbor	0.834%	35,032.50	0.838%	36,327.09	3.7%
Orchard Lake Village	0.896%	37,636.83	0.883%	38,277.84	1.7%
West Bloomfield Township	12.620%	530,108.16	12.579%	545,295.91	2.9%
Acacia Park RTB	0.825%	34,654.58	0.796%	34,506.42	-0.4%
Birmingham RTB	0.850%	35,704.50	0.844%	36,587.17	2.5%
Bloomfield RTB	1.108%	46,541.91	1.084%	46,991.00	1.0%
Total	100.00%	\$ 4,200,539.98	100.00%	\$ 4,334,970.87	3.2%

Charges have been rounded

**EVERGREEN FARMINGTON SANITARY DRAINAGE DISTRICT
SCHEDULE OF RATES AND CHARGES
EFFECTIVE JULY 1, 2023**

1. Wastewater Disposal Charge

Each community shall pay monthly, a charge in accordance with schedule below:

	Effective July 1, 2023 Monthly Charge
Auburn Hills	\$ 31,905.34
Beverly Hills	192,689.42
Bingham Farms	25,663.01
Birmingham	330,845.00
Bloomfield Hills	106,206.83
Bloomfield Township	771,754.84
Franklin	21,718.25
Lathrup Village	89,560.49
Southfield	802,706.59
Troy	181,158.42
Farmington	34,679.76
Farmington Hills	1,008,097.49
Keego Harbor	36,327.09
Orchard Lake Village	38,277.84
West Bloomfield Township	545,295.91
Acacia Park RTB	34,506.42
Birmingham RTB	36,587.17
Bloomfield RTB	<u>46,991.00</u>
Total:	\$ 4,334,970.87

2. Pollutant Surcharge

In accordance with current Great Lakes Water Authority (GLWA) standards and rates, the following pollutant surcharges shall be levied against industrial and commercial customers contributing sewage to the System with concentrations of pollutants exceeding the levels described as follows:

POLLUTANT SURCHARGE RATE, PER EXCESS POUND	EFFECTIVE JULY 1, 2023 \$/LB
Biochemical Oxygen Demand (BOD) in excess of 275 mg/l	\$0.361
Total Suspended Solids (TSS) in excess of 350 mg/l	0.496
Phosphorus (PHOS) in excess of 12 mg/l	6.629
Fats, Oil, & Grease (FOG) in excess of 100 mg/l	0.115

3. **Industrial Waste Control Charge (IWC)**

Each community shall report monthly the total number and size of water meters used by non-residential users of the System. Where metered water is not available, the community shall report monthly the "Assigned Water Meter Size" of non-residential users of the System as determined by WRC via Residential Equivalency Units (REU) equivalents or use of AWWA M22 (Chapter 5 – Sizing the Customer's Service and Meter).

Based on the reported number of water meter sizes, actual and assigned, for non-residential users of the System, each community shall pay a monthly IWC in accordance with the following schedule:

METER SIZE	EFFECTIVE JULY 1, 2023 MONTHLY IWC CHARGE
5/8"	\$3.64
3/4"	5.46
1"	9.10
1 1/2"	20.02
2"	29.12
3"	52.78
4"	72.80
6"	109.20
8"	182.00
10"	254.80
12"	291.20
14"	364.00
16"	436.80
18"	509.60

Non-residential users shall be defined as all users other than those in single family houses, apartment buildings, condominiums, town houses, mobile homes, schools, churches and municipal buildings.

4. **Penalty**

The sewage disposal service charge shall be payable monthly. If any municipality does not pay its service charge by the due date, there will be a penalty of one (1) percent for each month or a fraction thereof for which the charge remains.

EXHIBIT B

COST ALLOCATION/ SHARES

EXHIBIT B

**Evergreen-Farmington Sanitary Drain
Fiscal Year 2024 Proposed Cost Allocation**

Community	Volumes for Individual Years (MCF)						Proposed Fiscal Year 2024 Shares
	RY 2016/17	RY 2017/18	RY 2018/19	RY 2019/20	RY 2020/21	RY 2021/22	
Auburn Hills	14,578	14,598	13,999	13,271	11,409	14,019	0.736%
Beverly Hills	80,828	75,789	96,320	77,751	67,521	90,344	4.445%
Bingham Farms	10,503	11,864	11,282	9,737	8,132	13,405	0.592%
Birmingham	123,913	126,793	153,015	137,038	118,633	164,312	7.632%
Bloomfield Hills	46,345	45,663	47,557	43,944	35,132	52,717	2.450%
Bloomfield Township	292,947	297,697	336,064	339,137	285,928	369,976	17.803%
Franklin	8,938	9,192	9,782	9,879	8,552	8,197	0.501%
Lathrup Village	42,047	39,549	43,281	36,840	25,132	45,919	2.066%
Southfield	375,860	364,192	350,632	338,774	269,712	373,404	18.517%
Troy	75,603	74,557	77,415	80,070	68,581	80,751	4.179%
Farmington	12,657	13,871	15,715	13,365	14,038	15,956	0.800%
Farmington Hills	416,601	408,396	447,079	422,938	399,883	441,307	23.255%
Keego Harbor	16,153	15,874	15,292	15,944	11,652	18,200	0.838%
Orchard Lake Village	16,865	17,045	14,582	16,049	15,354	17,323	0.883%
West Bloomfield Township	227,739	236,194	229,020	235,071	200,971	247,649	12.579%
APRTB Stormwater	26,260	23,367	31,074	18,956	16,373	24,508	0.796%
BirmRTB Stormwater	27,751	22,425	29,944	21,217	17,909	29,820	0.844%
BVRTB Stormwater	34,288	33,641	42,419	28,627	17,559	34,130	1.084%
Total	1,849,877	1,830,707	1,964,472	1,858,609	1,592,472	2,041,938	100.000%
Basis of Current Shares							
Basis of Proposed Shares							

EXHIBIT C

MAJOR MAINTENANCE AND CAPITAL IMPROVEMENT PLAN

Expense Description	FY 2023 In Progress	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected	FY 2027 Projected	FY 2028 Projected
RTB Unplanned Major Maintenance	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
Manhole Lining	\$ 500,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Pipe Grouting	\$ 100,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Excavation Spot Repair	\$ 250,000	\$ 500,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
CCTV-System Prog	\$ 1,000,000	\$ 900,000	\$ 900,000	\$ 900,000	\$ 900,000	\$ 900,000
Manhole Repair	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Manhole Inspection	\$ 90,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
Meter Inspection	\$ -	\$ 80,000				
CAMP (RIVA)	\$ 198,184	\$ 221,091	\$ 227,724	\$ 234,556	\$ 241,593	\$ 248,841
Consultant Project Planning	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -
Amy PS Site/Facility Improvements	\$ 105,000	\$ -	\$ 10,000	\$ -	\$ 31,000	\$ -
Biddestone PS Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Drake PS Site/Facility Improvements	\$ 93,000	\$ 6,000	\$ 37,000	\$ 41,000	\$ 10,000	\$ 12,000
Eldon PS Site/Facility Improvements	\$ -	\$ -	\$ -	\$ 15,000	\$ -	\$ -
Middlebelt Storage Tunnel Site/Facility Improvements	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ -
Morris Lk PS Site/Facility Improvements	\$ -	\$ 6,000	\$ 5,000	\$ -	\$ -	\$ -
Quarton Rd PS Site/Facility Improvements	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 19,000
Thornbrook PS Site/Facility Improvements	\$ 172,000	\$ 157,000	\$ 12,000	\$ 56,000	\$ -	\$ -
Walnut Lk 1 PS Site/Facility Improvements	\$ 395,872	\$ 32,000	\$ 130,500	\$ 152,000	\$ 2,000	\$ -
Walnut Lk 3 PS Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000
EFSDS EvgrnIntRehab	\$ 487,523	\$ -	\$ -	\$ -	\$ -	\$ -
EFSD Hydraulic Modeling & Response Plan	\$ 87,900	\$ -	\$ -	\$ -	\$ -	\$ -
EFSD SRF Project Plan	\$ 44,378	\$ -	\$ -	\$ -	\$ -	\$ -
WLPS1 Rebuild Pump P4	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -
WLPS1 Rebuild Pumps P5 and P6	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -
Amy PS Rebuild Pump P2	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -
Troy Surcharge MH Bench Modification	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -
Excavation Spot Repair Project	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -
Total Expense	\$ 4,148,857	\$ 3,022,091	\$ 2,372,224	\$ 2,448,556	\$ 2,234,593	\$ 2,240,841

Expense Description	FY 2023 In Progress	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected	FY 2027 Projected	FY 2028 Projected
Sewage Meter Replacement Prog	\$ 10,000	\$ -	\$ 800,000	\$ 200,000	\$ 10,000	\$ 10,000
Pipe Lining / Replacement	\$ -	\$ 250,000	\$ 250,000	\$ -	\$ 1,000,000	\$ 1,000,000
Collection System Improvements	\$ -	\$ 42,580	\$ 849,350	\$ 2,250,000	\$ -	\$ -
Metering	\$ 94,000	\$ 12,000	\$ -	\$ 5,000	\$ 5,000	\$ -
8 Mile PS & EF Overflow Site/Facility Improvements	\$ 498,000	\$ 560,000	\$ -	\$ -	\$ -	\$ -
Amy PS Site/Facility Improvements	\$ -	\$ 8,000	\$ 129,000	\$ 120,000	\$ 15,000	\$ 5,000
Biddestone PS Site/Facility Improvements	\$ -	\$ 150,000	\$ 600,000	\$ 600,000	\$ -	\$ -
Burnley(Wattles) Regulator Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ -
Chestnut Hill(Wattles) Regulator Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000
Drake PS Site/Facility Improvements	\$ 185,000	\$ 324,000	\$ 65,000	\$ 16,000	\$ 16,000	\$ -
Inkster PS Site/Facility Improvements	\$ 159,000	\$ 391,000	\$ 500,000	\$ -	\$ -	\$ -
Lakeside LM Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Lathrup Vig LM Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Middlebelt Storage Tunnel & N of 14 LM Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78,000
Morris Lk PS Site/Facility Improvements	\$ -	\$ -	\$ 210,000	\$ -	\$ -	\$ -
Quarton Dewatering & Inlet Diversion Chamber Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Quarton Rd PS Site/Facility Improvements	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 10,000
Southfield Diversion Chamber Site/Facility Improvements	\$ 52,000	\$ -	\$ -	\$ -	\$ -	\$ -
Thornbrook PS Site/Facility Improvements	\$ 178,000	\$ 265,000	\$ 15,000	\$ 36,000	\$ 80,000	\$ -
Walnut Lk 1 PS Site/Facility Improvements	\$ -	\$ 70,000	\$ 247,500	\$ 120,000	\$ -	\$ -
LTCAP Phase 2 Engineering	\$ 256,780	\$ -	\$ -	\$ -	\$ -	\$ -
UST Eval & Repair	\$ 17,562	\$ -	\$ -	\$ -	\$ -	\$ -
EFSDS Meter and RG SCADA	\$ 56,208	\$ -	\$ -	\$ -	\$ -	\$ -
Canned Station Rehab Study	\$ 4,396	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut 3 PS Rehab	\$ 1,662,721	\$ -	\$ -	\$ -	\$ -	\$ -
13 Mile Level Sensor	\$ 10,343	\$ -	\$ -	\$ -	\$ -	\$ -
EFSDS Southfield Rouge Arm Area 9 Lining/Rehab	\$ 413,124	\$ -	\$ -	\$ -	\$ -	\$ -
8 Mile CAP - Conveyance	\$ 81,104,447	\$ -	\$ -	\$ -	\$ -	\$ -
I-696 PS Rehab	\$ 550,000	\$ 1,143,313	\$ -	\$ -	\$ -	\$ -
Walnut 2 PS Rehab	\$ 100,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -
EFSDS MeterRpl4804 4806	\$ 31,375	\$ -	\$ -	\$ -	\$ -	\$ -
E-F 696 Farmington Crossing	\$ 969,892	\$ -	\$ -	\$ -	\$ -	\$ -
EF 8Mile PS CIP	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -
EFSD Area 7 Lining	\$ 2,596,058	\$ 5,358,000	\$ -	\$ -	\$ -	\$ -
WLPS1 Replace Wet Well Ventilation	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -
WLPS1 Replace Generator 1 and ATS	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ -
WLPS1 Rebuild Pump P3	\$ 260	\$ -	\$ -	\$ -	\$ -	\$ -
Morris PS Replace Check Valves	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ -
EFSD Meter 3G Communication Upgrade	\$ 120,640	\$ -	\$ -	\$ -	\$ -	\$ -
EFSD BLT087 CMP Lining	\$ 9,757	\$ -	\$ -	\$ -	\$ -	\$ -
Eldon PS Add Actuator	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expense	\$ 89,376,564	\$ 10,618,893	\$ 3,665,850	\$ 3,347,000	\$ 1,131,000	\$ 1,129,000

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**
MEMORANDUM

TO: Jim Nash, Chairman
Evergreen Farmington Sanitary Drain Drainage Board

FROM: Lesli Maes, Operations Engineer

SUBJECT: EFSD Major Maintenance and Capital Improvement Projects for Approval

DATE: April 25, 2023

Within the Evergreen Farmington Sanitary Drain (EFSD), the WRC Retention Treatment Basin (RTB) group is responsible for operating and maintaining multiple facilities including pump stations and wet weather storage. As part of ongoing asset management, projects for these facilities are identified, evaluated, and planned for in collaboration with the asset management group, staff engineers and operations supervisors.

Below are major maintenance and capital improvement projects within the EFSD that the RTB group is seeking approval for at this time.

Major Maintenance Projects	Project Budget
Amy PS Rebuild Sewage Pump 3	\$ 25,000
Amy PS Rebuild Sewage Pump 1	\$ 25,000
Amy PS Force Main Replace ARV & Repair ARV MH structure	\$ 50,000
Thornbrook PS Raise Generator Elevation	\$ 10,000
Thornbrook PS Repair/Rewire of Transfer Switches	\$ 20,000
Thornbrook PS Repair Sewage Pump 1 & Rebuild Motor	\$ 30,000
Walnut Lk 1 PS Rebuild Pump 2 & Rehab Drive Shaft	\$ 20,000
Major Maintenance Subtotal:	\$ 180,000

Capital Improvement Projects	Project Budget
Drake PS Add Water Service	\$ 20,000
Drake PS Replace Pump 1 Motor	\$ 40,000
Drake PS Replace Pump 3 and Motor	\$ 85,000
Southfield Diversion Chamber Upgrade	\$ 52,000
Thornbrook PS Add Water Service	\$ 45,000
Thornbrook PS Construct Vactor Pipe	\$ 20,000
Thornbrook PS Replace P4 Motor	\$ 48,000
Thornbrook PS Replace Dry Well Sump P1 & P2 and Control Panel	\$ 20,000
Capital Improvement Subtotal:	\$ 330,000

This work was anticipated and budgeted for in the EFSD Reserves.

Board Action Requested:

Approve the Evergreen Farmington Sanitary Drain projects listed above using funds from Major Maintenance and Capital Improvement reserves.

CHANGE ORDER NO. 2

**Evergreen Farmington Sanitary Drain Drainage District Board
For Construction of the S. Evergreen Interceptor Rehabilitation
Beverly Hills, Birmingham & W. Bloomfield Township
Oakland County, Michigan**

Authorization for Extras To & Changes In Contract

Department No.: 6010101

Fund No.: 58410

Project No.: 1-2914

Account No. : 370373

Program No. : 149662

Project Activity: FAC

Contractor:

Pipeline Management Company

2673 E. Maple Road

Milford, MI 48381

Contract No. : CON9294

Date of Contract: 1/10/2022

Completion Date: 6/10/2022

Extended to: N/A

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
2A	LOCATION: Entire Project DESCRIPTION (Change/Add): Increase in the unit rate of the chemical grout, Bid Item No. 15, from \$25.00/gallon to \$33.75/gallon. REASON: The contractor only installed 1,970 gallons of the 6,048 gallons estimated for the project. Based on the low grout takes and in accordance with Article 26.2) of the General Conditions, the unit price can be increase but not more than 35% of the contract unit price.	LS	1.0	\$17,237.50	\$17,237.50	---
2B	LOCATION: Entire Project					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	DESCRIPTION (Extra/Add): Additional time was required to clean the sewer prior to conducting the rehabilitation work. Heavy cleaning was conducted on 3/3/2022, 3/4/2022, 3/18/2022, 3/30/2022, 3/31/2022, 4/1/2022, 4/5/2022, 4/28/2022 and 4/29/2022. Attached is a breakdown in the labor and material used to clean the sewer. We used unit rates established in Pipeline Management's Contract No. 5952 for the time and material work. REASON: The sewer was dewatered and televised in April of 2015. In May of 2021, as part of a large cleaning project upstream of this project, the sewer from MH BLT136001 to MH SOT009006 was cleaned and the large debris observed in 2015 was removed. Based on the data from April of 2015, we didn't expected large debris in the other reaches of the system and therefore this scope of work was not included in the original contract. It appears that the large debris had migrated further down the sewer and needed to be removed. The work was conducted on a time and material basis.	LS	1.0	\$39,607.00	\$39,607.00	---
2C	LOCATION: MHSOT009 to SOT009002 DESCRIPTION (Extra/Add): Chipping out grout from invert between MH SOT009003 to MH SOT009002 REASON: We encountered grout in the sewer as part of the cleaning process. Grout removal was not part of the original scope of work. The contractor was paid to remove the grout using time and material to determine cost. The contractor spent 6.5 hours removing the grout. We used unit rates established in Pipeline Management's Contract No. 5952 for the time and material work.	LS	1.0	\$4,149.00	\$4,149.00	---
2D	LOCATION: Entire project					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	DESCRIPTION (Change/Add): Add bid quantity to Bid Item No. 14 Chemical Grouting System Setup, Joint (originally intended for Bid Item No. 23 Additional Grout Port). REASON: The contractor utilized additional labor to install the additional grout ports than what was originally intended under Bid Item No. 23 during the bid. Bid Item No. 23 in the Contract documents contains contradictory language that includes both adding an additional grout port to an existing 4-grout port setup (requiring largely minimal effort) and an engineered directed setup, requiring a level of effort comparable to Bid Item No. 14. After a review of the work involved, the Parties agreed that it was more appropriate for the engineer directed grouting indicated in Bid Item No. 23 to be paid out under Bid Item No. 14.	EA	43.0	\$1,250.00	\$53,750.00	---
2E	LOCATION: Entire project DESCRIPTION (Change/Deduct): Remove Bid Item No. 23 Additional Grout Ports from scope of work and move to Item No. 14. REASON: The contractor will be paid for work associated with Item No. 23 Additional Grout Ports under Item No. 14. The contractor utilized additional effort to install the additional grout ports than what was intended under Bid Item No. 23.	EA	-23.0	\$1.00	---	\$23.00
				Totals	\$114,743.50	\$23.00
				Net Increase	\$114,720.50	---

CHANGE ORDER NO. 2

**Evergreen Farmington Sanitary Drain Drainage District Board
For Construction of the S. Evergreen Interceptor Rehabilitation
Beverly Hills, Birmingham & W. Bloomfield Township
Oakland, MI**

Prepared by: Evangelos Bantios Date: 3/14/2023
Evangelos Bantios, P.E. - Project Engineer

Recommended by: Bradley Shepler Date: 3/15/2023
Bradley W. Shepler, P.E. - Hubbell, Roth & Clark, Inc.

Approved by: Joel Brown Date: 4/11/2023
Joel Brown, P.E. - Chief Engineer

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: David Lusky Digitally signed by David Lusky
Date: 2023.03.14 14:30:17
-04'00'

Approved by: Sid Lockhart Date: 4/12/2023
Sid Lockhart, P.E. - Special Projects Manager

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order No. 2 was approved by the Drain board on:

CHANGE ORDER NO. 1

**Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the Walnut Lake No. 3 Pump Station Rehabilitation
Bloomfield Township, Michigan
Oakland County, Michigan**

Authorization for Extras To & Changes In Contract

Department No. : CCN6010101
Fund No. : FND58410
Project No. : PRJ-13006

Account No. : 730352
Program No. : 149667
Project Activity : FAC

Contractor : Lawrence M. Clarke, Inc.
50850 Bemis Rd.
Belleville, MI 48111

Contract No. : 9895
Date of Contract: 4/29/22
Completion Date: 3/25/23

Auth	Location-Description-Reason	Unit	Est.	Unit Price	Amount	Amount
1-1	LOCATION: Entire project DESCRIPTION (Extra/Add): Remove two additional large diameter trees in the area around the new building. REASON: The additional trees were removed to provide better access around the site for maneuvering equipment and vehicles. In addition, the trees were removed to minimize potential damage if those trees fell onto the powerlines that feed the station and new building.	Each	2.0	\$4,000.00	\$8,000.00	---
1-2	LOCATION: Driveway from Long Lake Road to site. DESCRIPTION (Extra/Add): Tree removal, stump grinding, clearing, grubbing, removal of debris, regrading for positive drainage, topsoil, seed and mulch.	LS	1.0	\$48,000.00	\$48,000.00	---

**JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

CHANGE ORDER

Auth	Location-Description-Reason	Unit	Est.	Unit Price	Amount	Amount
	REASON: The additional tree removal, stump grinding, clearing and grubbing was done to minimize future maintenance cost at the facility. There was a significant amount of trees, scrubs, debris below the power lines. The field team spent a substantial amount of time and resources every few years trimming the trees and vegetation. All the trees, scrubs, and debris were removed. The site was regraded and topsoil, seed and mulch were placed.					
1-3	LOCATION: Pump Starters DESCRIPTION (Change/Add): The motor starters for the pumps are being substituted from Square D to ABB. REASON: The original supplier of the motor starters (Square D) has repeatedly delayed the delivery of the equipment. The purchase order for the equipment was written on March 10, 2022 with an expected delivery date of July 15, 2022. To date, the motors have still not be received nor is there a realistic expectation they will be received in a timely fashion. Accordingly, the Contractor is procuring ABB motor starters that are expected to be delivered in three to four weeks.	LS	1.0	\$1,260.27	\$1,260.27	---
				Totals	\$57,260.27	\$0.00
				Net Increase	\$57,260.27	---

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER NO. 1

**Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the Walnut Lake No. 3 Pump Station Rehabilitation
Bloomfield Township, Michigan
Oakland County, Michigan**

Prepared by: Evangelos Bantios Date: 3/14/2023
Evangelos Bantios, P.E. - Project Engineer

Recommended by: Mark Mattson Date: 12 March 2023
Mark Mattson, P.E. - Consultant

Approved by: Joel Brown Date: 3/24/23
Joel Brown, P.E. - Chief Engineer

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: Lynn Harmala Date: 3/14/23
Lynn Harmala - President
Lawrence M. Clarke, Inc.

Approved by: Sid Lockhart Date: 4/13/2023
Sid Lockhart, P.E.
Special Projects Manager

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order was approved by the Drainage Board on:

CHANGE ORDER

CHANGE ORDER NO. 1

**Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the Walnut Lake No. 3 Pump Station Rehabilitation
Bloomfield Township, Michigan
Oakland County, Michigan**

Notice to Proceed Date:	4/29/2022
Contract Substantial Completion Date:	2/23/2023
Contract Final Completion Date:	3/25/2023
Original Contract Value:	\$1,209,000.00
Previous C.O. Values:	\$0.00
Change Order No. 1 Value	\$57,260.27
Adjusted Contract Value	\$1,266,260.27

**JIM NASH
OAKLAND COUNTY WATER RESOURCE COMMISSIONER**

WRC Work Change Directive**Date:** 09/19/2022**W.C.D. #** 001**Project:** Walnut #3 Lift Station Replacement**Project Number:** 1945-0235-00**Reference/ RFI #:** N/A

THIS IS YOUR AUTHORIZATION TO PROCEED WITH THE WORK DESCRIBED BELOW: ANY EXTRA WORK MUST BE VERIFIED EACH DAY BY THE WRC FIELD INSPECTOR AND FINAL COSTS WITH ALL RELATED BACKUP MUST BE SUBMITTED WITHIN 60 DAYS FROM THE COMPLETION OF WORK.

Description

As discussed, please proceed with removing the two trees west of the generator that hang over the generator and primary power feed putting both at risk.

Reason: Owner Change ☒Field Conditions ☐A/E Change ☐**THE CONTRACT AMOUNT AND/OR TIME WILL BE ADJUSTED BY A FUTURE CHANGE ORDER BASED ON:**

(check all that apply)

COST DETERMINATION**TOTAL AMOUNT****NO CHANGE IN:**

TIME & MATERIAL

\$

CONTRACT AMOUNT

☒ LUMP SUM

\$

☒ CONTRACT TIME

UNIT PRICE

\$

TIME EXTENSION

Days

Contractor: Lawrence M. Clarke, Inc.

Accepted by:

Date:

3/14/23

Project Engineer: DLZ Michigan, Inc.

Approved by:

Date: 9/19/2022



Lawrence M. Clarke, Inc.

February 16, 2023

Mr. Evans Bantios, P.E.
Oakland County Water Resources
Number One Public Works Drive
Waterford, MI 48328-1907

RE: Work Change Directive No. 1

Dear Mr. Bantios:

Please accept this as a price for the Work Change Directive No. 1.

The breakdown is as follows:

Removal of Two Large Trees by the existing generator
2 Each @ \$4,000.00
Total \$8,000.00

If you should have any questions, please feel free to contact me.

Regards,

A handwritten signature in black ink, appearing to read 'Lynn L. Harmala'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Lynn L. Harmala
Lawrence M. Clarke, Inc.

WRC Work Change Directive**Date:** 09/19/2022**W.C.D. #** 002**Project:** Walnut #3 Lift Station Replacement**Project Number:** 1945-0235-00**Reference/ RFI #:** N/A

THIS IS YOUR AUTHORIZATION TO PROCEED WITH THE WORK DESCRIBED BELOW: ANY EXTRA WORK MUST BE VERIFIED EACH DAY BY THE WRC FIELD INSPECTOR AND FINAL COSTS WITH ALL RELATED BACKUP MUST BE SUBMITTED WITHIN 60 DAYS FROM THE COMPLETION OF WORK.

Description

As discussed, please clean up the debris, strip, topsoil, seed and mulch along the west side of the access drive.

Grade to provide positive drainage to the west and place 3 inches of topsoil, seed and mulch per the specifications.

Due to the nearby wetlands provide the required temporary soil erosion control measures.

Reason: Owner Change ☒Field Conditions ☐A/E Change ☐**THE CONTRACT AMOUNT AND/OR TIME WILL BE ADJUSTED BY A FUTURE CHANGE ORDER BASED ON:**

(check all that apply)

COST DETERMINATION**TOTAL AMOUNT****NO CHANGE IN:**

TIME & MATERIAL

\$

CONTRACT AMOUNT

☒ LUMP SUM

\$

☒ CONTRACT TIME

UNIT PRICE

\$

TIME EXTENSION

Days

Contractor: Lawrence M. Clarke, Inc.

Accepted by:

Date: 3/14/23

Project Engineer: DLZ Michigan, Inc.

Approved by:

Date: 9/19/2022



Lawrence M. Clarke, Inc.

February 16, 2023

Mr. Evans Bantios, P.E.
Oakland County Water Resources
Number One Public Works Drive
Waterford, MI 48328-1907

RE: Work Change Directive No. 2

Dear Mr. Bantios:

Please accept this as a price for the Work Change Directive No. 2.

The breakdown is as follows:

Clearing, Grubbing, take down fence, dispose of fence and debris,
Re-Grade for positive drainage, topsoil, seed and mulch
Lump Sum \$20,000.00

Removal an additional fourteen trees along fence line and grind stumps
14 Each @ \$2,000.00
Total \$28,000.00

Grand Total \$48,000.00

If you should have any questions, please feel free to contact me.

Regards,

A handwritten signature in black ink, appearing to read "Lynn L. Harmala". The signature is fluid and cursive, with a large, sweeping flourish at the end. It is positioned above the printed name and company name.

Lynn L. Harmala
Lawrence M. Clarke, Inc.

WRC Work Change Directive**Date:** 03/07/2023**W.C.D. #** 003**Project:** Walnut #3 Lift Station Replacement**Project Number:** 1945-0235-00**Reference/ RFI #:** N/A

THIS IS YOUR AUTHORIZATION TO PROCEED WITH THE WORK DESCRIBED BELOW: ANY EXTRA WORK MUST BE VERIFIED EACH DAY BY THE WRC FIELD INSPECTOR AND FINAL COSTS WITH ALL RELATED BACKUP MUST BE SUBMITTED WITHIN 60 DAYS FROM THE COMPLETION OF WORK.

Description

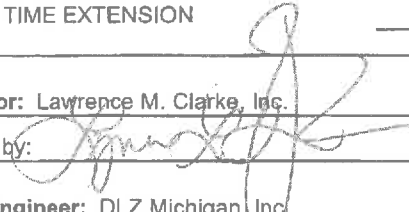
Please proceed with ordering the ABB motor starters for the additional cost as found in the attached document. Before ordering, please confirm that the aux overload contact that is normally closed and opens on an overload as required by the controls integrator, can be attained by simply swaping the relay in the starter as discussed in our site visit on 2-27-23.

The price quoted below includes Lawrence M. Clarke OHP mark-up of 15%.

Reason: Owner Change ☒Field Conditions ☐A/E Change ☐**THE CONTRACT AMOUNT AND/OR TIME WILL BE ADJUSTED BY A FUTURE CHANGE ORDER BASED ON:**

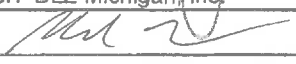
(check all that apply)

COST DETERMINATION	TOTAL AMOUNT	NO CHANGE IN:
TIME & MATERIAL	\$ _____	CONTRACT AMOUNT
☒ LUMP SUM	\$ 1260.27	☒ CONTRACT TIME
UNIT PRICE	\$ _____	
TIME EXTENSION	_____ Days	

Contractor: Lawrence M. Clarke, Inc.Accepted by: 

Date:

03/08/2023

Project Engineer: DLZ Michigan, Inc.Approved by: 

Date:

03/08/2023



Lawrence M. Clarke, Inc.

March 7, 2023

Mr. Evans Bantios, P.E.
Oakland County Water Resources
Number One Public Works Drive
Waterford, MI 48328-1907

RE: Combo Starter Alternative

Dear Mr. Bantios:

Please accept this as a price for the difference between the original specified Square D Combo Starters and the new ABB Alternate Combo Starters.

D.F. Best Company	\$1,095.89
LMC 15% OHP	\$ 164.38
Total Amount	\$1,260.27

If you should have any questions, please feel free to contact me.

Regards,

A handwritten signature in black ink, appearing to read 'Lynn L. Harmala', is written over the typed name. The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Lynn L. Harmala
Lawrence M. Clarke, Inc.

D.F. BEST COMPANY
ELECTRICAL CONSTRUCTION SERVICES

628 Pathway Drive
Howell, Michigan
48843

Tel: 517-548-0612
Fax: 517-548-0911
dfbest@dfbestco.com

To Whom It May Concern,

D.F. Best Company is writing this letter in reference to the Walnut Lake #3 Lift Station Rehabilitation job that we are working on getting the Combo Starter alternative.

For the original tremendously delayed Square D combo starters the total price for them is \$5,657.11 which makes them an individual price of \$2,828.55 each.

For the proposed alternative ABB combo starters the total price is \$6,753.00 which makes an individual price of \$3,286.50.

The increase of total price of the ABB combo starters is very small increase of \$1,095.89.

The recommendation of D.F. Best company is to go forward with the ABB combo starters as the estimated lead time for the combo starters in only 15 working days. The Square D combo starters have pushed back to end of April with a very shaky and unconfirming tone.

Please let us know how you would like to proceed.

Best,

D.F. Best Company

**Jim Nash, Oakland County Water Resources Commissioner
S. Evergreen Interceptor Rehabilitation
Beverly Hills, Birmingham & W. Bloomfield Township
Oakland County, Michigan**

Regular Construction Estimate No. 6

June 1, 2022 to March 31, 2023

Department No.: 6010101
Fund No.: 58410
Project No.: 1-2914



Account No.: 730373
Program No.: 149662
Activity: FAC

Contractor:
Pipeline Management Company, LLC
2673 E. Maple Road
Milford, MI 48381

Account No.: 730373
Date of Contract: January 10, 2022
Completion Date: June 10, 2022
Extended to: N/A

Original Contract Amount: \$1,854,000.00

Previous Change Order Number: CO#1 \$8,250.00

Change Order This Estimate: CO#2 \$114,720.50

Total Net Change Orders: \$122,970.50

Adjusted Contract Amount: \$1,976,970.50

Sub-Total To Date: (Sheet 3 of 3 Column 7) \$1,469,847.50

Less Deductions: (Sheet 3 of 3 Column 7) \$ -

Gross Estimate: (Work in Place) 74.35% \$1,469,847.50

Less Amount Reserved: (10% of 1/2 Adjusted Contract Amount) \$98,848.53

Total Amount Allowed To Date: \$1,370,998.97

Less Previous Estimates: \$1,252,014.50

Net Payment Request To Be Paid To Contractor: \$118,984.47

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$507,123.00 Accounting Auditor: *BER* 4/6/2023

Amount To Be Reserved (From Above) \$98,848.53

Less Previous Transfers To Reserve: \$93,112.50

Amount of Current Transfer: \$5,736.03

Prepared by: *Evangelos Bantios*
Evangelos Bantios, P.E. - Project Engineer

Date: 4/6/2023

Recommended by: *Bradley Shepler*
Bradly W. Shepler, P.E. - Hubbell, Roth & Clark, Inc.

Date: 4/7/2023

Approved by: *Joel Brown*
Joel Brown, P.E. - Chief Engineer

Date: 4/12/2023

Approved For Payment: *Sid Lockhart*
Sid Lockhart, P.E. - Special Project Manager

Date: 4/12/2023

Regular Construction Estimate No. 6

Approved By Board On: _____

**JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

Jim Nash, Oakland County Water Resources Commissioner
S. Evergreen Interceptor Rehabilitation
Beverly Hills, Birmingham & W. Bloomfield Township
Oakland County, Michigan

Regular Construction Estimate No. 6		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Contract Item		Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Estimate
1	Mobilization, 5% Max	1	Lsume	\$65,000.00		1.00	1.00	\$65,000.00	\$0.00
2	Color Audio-Video Recording of Construction Areas	1	Lsum	\$5,000.00		1.00	1.00	\$5,000.00	\$0.00
3	Traffic Maintenance & Control	1	Lsum	\$83,000.00		1.00	1.00	\$83,000.00	\$0.00
4	Soil Erosioin and Sedimentation Control	1	Lsum	\$40,000.00		1.00	1.00	\$40,000.00	\$0.00
5	HMA, Surface, Rem	584	Syd	\$25.00		484.30	484.30	\$12,107.50	\$0.00
6	Interceptor, Manhole Reconstruct	5	Ea	\$7,500.00		4.00	4.00	\$30,000.00	\$0.00
7	Tempoary Bypass Pumping Delivery System, Setup and Restore	1	Lsum	\$234,147.00		1.00	1.00	\$234,147.00	\$0.00
8	Bypass Pumping System, Pump Rental	70	days	\$4,000.00		61.00	61.00	\$244,000.00	\$0.00
9	Bypass Pumping System, Pump Operation	48	days	\$1,500.00		33.00	33.00	\$49,500.00	\$0.00
10	Birmingham Tunnel Diversion, Complete	1	Lsum	\$125,000.00		1.00	1.00	\$125,000.00	\$0.00
11	Internal Video Inspection 54-inch Dia, Sewer	4,148	Lft	\$10.00		4,148.00	4,148.00	\$41,480.00	\$0.00
12	Interceptor, Manhole Lining	475	Sft	\$80.00		816.40	816.40	\$65,312.00	\$0.00
13	Concrete Repair, Prep and Patch	33	Ea	\$1,500.00		30.00	30.00	\$45,000.00	\$0.00
14	Grouting System Setup, Joint (Incl. 4 Ports)	56	Ea	\$1,250.00	8.00	86.00	94.00	\$117,500.00	\$10,000.00
15	Chemical Grout	6,048	Gal	\$25.00		1,970.00	1,970.00	\$49,250.00	\$0.00
16	Aggregate Base, 21AA, 8 Inch, Special	584	Syd	\$25.00		484.30	484.30	\$12,107.50	\$0.00
17	HMA 5E3, Mod	203	Ton	\$200.00		160.65	160.65	\$32,130.00	\$0.00
18	Turf Restoration	1	Lsum	\$60,000.00		1.00	1.00	\$60,000.00	\$0.00
19	Permit Allowance Fee	1	Lsum	\$15,000.00		0.10	0.10	\$1,500.00	\$0.00
20	Exploratory Excavation for Utilities	10	Vft	\$600.00		0.00	0.00	\$0.00	\$0.00
21	Fracture Repair	50	Lft	\$150.00		0.00	0.00	\$0.00	\$0.00
22	Reinforcement Repair	20	Ea	\$1,750.00		0.00	0.00	\$0.00	\$0.00
23	Additional Grout Port	23	Ea	\$1.00		43.00	43.00	\$43.00	\$0.00
24	Concrete Repair, Prep and Patch, Directed	14	Ea	\$1,200.00		29.00	29.00	\$34,800.00	\$0.00
25	Chemical Grouting System Setup, Joint (Incl. 4 Ports), Directed	13	Ea	\$1,750.00		0.00	0.00	\$0.00	\$0.00
26	Chemical Grout, Directed	3,152	Gal	\$25.00		0.00	0.00	\$0.00	\$0.00
27	Cement Grout, Mobilization	1	Lsum	\$32,000.00		0.00	0.00	\$0.00	\$0.00
28	Cement Grout, De-Mobilization	1	Lsum	\$10,000.00		0.00	0.00	\$0.00	\$0.00
29	Cement Grout, Ports	50	Ea	\$500.00		0.00	0.00	\$0.00	\$0.00
30	Cement Grout	1,600	Cft	\$60.00		0.00	0.00	\$0.00	\$0.00
31	Spin-Cast Geopolymer Lining, 54 inch	25		\$1,500.00		0.00	0.00	\$0.00	\$0.00
32	Allowance for Odor Control	1	Lsum	\$50,000.00		0.00	0.00	\$0.00	\$0.00

Change Orders:

1A	Portable Changeable Message Signs	4	EA	\$1,500.00		4.00	4.00	\$6,000.00	\$0.00
1B	15 Type III signs	1	LS	\$2,250.00		1.00	1.00	\$2,250.00	\$0.00
2A	Grout increase in unit rate	1	LS	\$17,237.50	1.00		1.00	\$17,237.50	\$17,237.50
2B	Heavy cleaning of sewer	1	LS	\$39,607.00	1.00		1.00	\$39,607.00	\$39,607.00
2C	Chipping out grout	1	LS	\$4,149.00	1.00		1.00	\$4,149.00	\$4,149.00
2D	Chemical Grouting System Setup, Joint	1	EA	\$1,250.00	43.00		43.00	\$53,750.00	\$53,750.00
2E	Remove Item No. 23	1	EA	-\$1.00	23.00		23.00	(\$23.00)	-\$23.00

Stored Material:

						0.00	0.00	\$0.00	\$0.00

SUB-TOTAL (Bid Items):	\$1,346,877.00	\$10,000.00
SUB-TOTAL (Change Orders):	\$122,970.50	\$114,720.50
SUB-TOTAL (Stored Material):	\$0.00	\$0.00
SUB-TOTAL TO DATE	\$1,469,847.50	\$124,720.50

Deductions:

						0.00	0.00	\$0.00	\$0.00

SUB-TOTAL (Deductions):	\$0.00	\$0.00
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Sub-Totals This Estimate	
Bid Items	10,000.00
Change Orders	114,720.50
Stored Materials	0.00
Deductions	0.00
Payment this Estimate	124,720.50
Less Transfer to Reserve	5,736.03
Net Payment	118,984.47

**Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the Walnut No. 3 Pump Station Rehabilitation
Bloomfield Township
Oakland County, Michigan**

Construction Estimate No. 3

January 7, 2023 to March 31, 2023

Department No.: 6010101
Fund No.: 58410
Project No.: 1-3006



Account No.: 730352
Program No.: 149667
Activity: FAC
Vendor No.: 16424
Contract No.: 9895
Date of Contract: 4/29/2022
Completion Date: 3/25/2023

Contractor: Lawrence M. Clarke Inc.
50850 Bemis Rd
Belleville, MI 48111

Original Contract Amount:		\$1,209,000.00
Previous Change Order Numbers (none):		\$0.00
Change Orders This Estimate Number: CO#1		\$57,260.27
Total Net Change Orders:		\$57,260.27
Adjusted Contract Amount:		\$1,266,260.27 ✓
Subtotal To Date: (Sheet 2 of 2 Column 7)		\$880,060.27
Less Deductions to Date: (Sheet 2 of 2 Column 7)		\$0.00
Gross Estimate: (Work in Place)	69.50%	\$880,060.27
Less Amount Reserved: (5% of Adjusted Contract Amount)		\$63,313.01 ✓
Total Amount Allowed To Date:		\$816,747.26
Less Previous Estimates:		\$762,350.00
Net Payment Request To Be Paid To Contractor:		\$54,397.26
Reserve Payment to Contractor		\$0.00
Balance of Contract To Date	✓	\$386,200.00
		Accounting Auditor: <i>BCT</i> 4/7/2023
Less Previous Transfers To Reserve:		\$60,450.00
Amount of Current Transfer:		\$2,863.01

Prepared by: Evangelos Bantios
Evangelos Bantios, P.E. - Project Engineer

Date: 4/6/2023

Recommended by: Mark Mattson
Mark Mattson, P.E. - Consulting Engineer

Date: 4/11/2023

Approved by: Joel Brown
Joel Brown, P.E. - Chief Engineer

Date: 4/11/2023

Approved by: Sid Lockhart
Sid Lockhart, P.E. - Special Project Manager

Date: 4/13/2023

Approved by Board on: _____

**JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the Walnut No. 3 Pump Station Rehabilitation
Bloomfield Township
Oakland County, Michigan

Construction Estimate No. 3		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
1	Mobilization, 5% max	1	LS	\$55,000.00	0.00	1.00	1.00	\$55,000.00	\$0.00
2	Soil Erosion and Sedimentation Control	1	LS	\$25,000.00	0.00	1.00	1.00	\$25,000.00	\$0.00
3	Clearing and Grubbing	1	LS	\$20,000.00	0.00	1.00	1.00	\$20,000.00	\$0.00
4	Site Excavation and Piping	1	LS	\$120,000.00	0.00	0.50	0.50	\$60,000.00	\$0.00
5	Bypass Pumping	1	LS	\$51,000.00	0.00	0.00	0.00	\$0.00	\$0.00
6	Dewatering	1	LS	\$35,000.00	0.00	0.75	0.75	\$26,250.00	\$0.00
7	Wet Well Modifications	1	LS	\$65,000.00	0.00	0.75	0.75	\$48,750.00	\$0.00
8	Submersible Non-Clog Pumps	1	LS	\$121,300.00	0.00	0.00	0.00	\$0.00	\$0.00
9	Building	1	LS	\$235,000.00	0.00	0.85	0.85	\$199,750.00	\$0.00
10	Piping, Valves, and Fittings	1	LS	\$124,000.00	0.00	0.75	0.75	\$93,000.00	\$0.00
11	Water Service	1	LS	\$28,000.00	0.00	0.75	0.75	\$21,000.00	\$0.00
12	Electrical Equipment	1	LS	\$81,000.00	0.00	0.75	0.75	\$60,750.00	\$0.00
13	Electrical Service Relocation	1	LS	\$18,500.00	0.00	0.00	0.00	\$0.00	\$0.00
14	Controls and SCADA	1	LS	\$40,000.00	0.00	0.90	0.90	\$36,000.00	\$0.00
15	Panel and Programming Allowance	1	LS	\$88,700.00	0.00	0.77	0.77	\$68,000.00	\$0.00
16	Demolition	1	LS	\$31,000.00	0.00	0.00	0.00	\$0.00	\$0.00
17	Final Connection Piping	1	LS	\$30,000.00	0.00	0.00	0.00	\$0.00	\$0.00
18	Site Restoration Work	1	LS	\$25,000.00	0.00	0.50	0.50	\$12,500.00	\$0.00
19	DTE Allowance	1	LS	\$5,000.00	0.00	0.00	0.00	\$0.00	\$0.00
20	Tree Trimming	1	LS	\$10,500.00	0.00	1.00	1.00	\$10,500.00	\$0.00
21						0.0	0.00	\$0.00	\$0.00
22						0.0	0.00	\$0.00	\$0.00
23						0.0	0.00	\$0.00	\$0.00
24						0.0	0.00	\$0.00	\$0.00
25						0.0	0.00	\$0.00	\$0.00
26						0.0	0.00	\$0.00	\$0.00
27						0.0	0.00	\$0.00	\$0.00
28						0.0	0.00	\$0.00	\$0.00
29						0.0	0.00	\$0.00	\$0.00
30						0.0	0.00	\$0.00	\$0.00
31						0.0	0.00	\$0.00	\$0.00
32						0.0	0.00	\$0.00	\$0.00
33						0.0	0.00	\$0.00	\$0.00
34						0.0	0.00	\$0.00	\$0.00
35						0.0	0.00	\$0.00	\$0.00
36						0.0	0.00	\$0.00	\$0.00
37						0.0	0.00	\$0.00	\$0.00
38						0.0	0.00	\$0.00	\$0.00
39						0.0	0.00	\$0.00	\$0.00
40						0.0	0.00	\$0.00	\$0.00
41						0.0	0.00	\$0.00	\$0.00
42						0.0	0.00	\$0.00	\$0.00
43						0.0	0.00	\$0.00	\$0.00
44						0.0	0.00	\$0.00	\$0.00
45						0.0	0.00	\$0.00	\$0.00
46						0.0	0.00	\$0.00	\$0.00
47						0.0	0.00	\$0.00	\$0.00
48						0.0	0.00	\$0.00	\$0.00
49						0.0	0.00	\$0.00	\$0.00
50						0.0	0.00	\$0.00	\$0.00
51						0.0	0.00	\$0.00	\$0.00
52						0.0	0.00	\$0.00	\$0.00
53						0.0	0.00	\$0.00	\$0.00
54						0.0	0.00	\$0.00	\$0.00
55						0.0	0.00	\$0.00	\$0.00
56						0.0	0.00	\$0.00	\$0.00
57						0.0	0.00	\$0.00	\$0.00
58						0.0	0.00	\$0.00	\$0.00
59						0.0	0.00	\$0.00	\$0.00
60						0.0	0.00	\$0.00	\$0.00
61						0.0	0.00	\$0.00	\$0.00
62						0.0	0.00	\$0.00	\$0.00
63						0.0	0.00	\$0.00	\$0.00
64						0.0	0.00	\$0.00	\$0.00
65						0.0	0.00	\$0.00	\$0.00
66						0.0	0.00	\$0.00	\$0.00
67						0.0	0.00	\$0.00	\$0.00

Change Orders:

1-1	Remove two additional trees around the new building	2	EA	4,000.00	2.00	0.0	2.00	\$8,000.00	\$8,000.00
1-2	Tree removal, stump grinding, clearing, grubbing, debris removal,	1	LS	48,000.00	1.00	0.0	1.00	\$48,000.00	\$48,000.00
1-3	Substitution of motors starters from Square D to ABB	1	LS	1,260.27	1.00	0.0	1.00	\$1,260.27	\$1,260.27

Stored Material:

8	Submersible Non-Clog Pumps	1	LS	\$121,300.00	0.00	0.71	0.71	\$86,300.00	\$0.00

Deductions:

						0.0	0.00	\$0.00	\$0.00

Total Amount to Date	\$736,500.00
Total Amount This Estimate	\$0.00
Change Orders to Date	\$57,260.27
Change Orders This Estimate	\$57,260.27
Stored Materials to Date	\$86,300.00
Stored Materials This Estimate	\$0.00
Subtotal to Date	\$880,060.27
Subtotal This Estimate	\$57,260.27
Deductions to Date	\$0.00
Deductions This Estimate	\$0.00
Payment This Estimate	\$57,260.27
Less Transfer to Reserve	\$2,863.01
Net Payment	\$54,397.26

Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
8 Mile Road CAP 8 Mile Road Pump Station & SSO Chamber Improvements - Phase 1
Southfield
Oakland County, Michigan

Construction Estimate No. 13

March 1, 2023 to March 31, 2023

Department No. : 6010101
Fund No. : 58410
Project No. : 1-3181

✓

Account No. : 730352
Program No. : 149667
Activity : FAC
Vendor No. : 23191
Contract No. : 6628
Date of Contract : 2/2/2022
Completion Date : 8/13/2027

Contractor :
Walsh Construction Company II, LLC
3031 W Grand Blvd, Suite 640
Detroit, MI 48202

Original Contract Amount:		\$0.00
Previous Change Order Numbers: CO Nos. 1, 2, 3, 4, 5, 6, and 7.		\$50,177,000.25
Change Orders This Estimate Number:		
Total Net Change Orders:		\$50,177,000.25
Adjusted Contract Amount:		\$50,177,000.25
Subtotal To Date: (Sheet 2 of 3 Column 7)		\$1,937,744.74
Less Deductions to Date: (Sheet 2 of 3 Column 7)		\$0.00
Gross Estimate: (Work in Place)	3.86%	\$1,937,744.74
Less Amount Reserved: (10% of Gross Estimate)		\$193,774.47 ✓
Total Amount Allowed To Date:		\$1,743,970.27
Less Previous Estimates:		\$1,127,802.08
Net Payment Request To Be Paid To Contractor:		\$616,168.19
Reserve Payment to Contractor		\$0.00
Balance of Contract To Date	✓ \$48,239,255.51	Accounting Auditor: <i>BCR</i> 4/14/23
Less Previous Transfers To Reserve:		\$125,311.34
Amount of Current Transfer:		\$68,463.13

Prepared by: *Charles J. Roarty, Jr.*
Charles J. Roarty, Jr., P.E. - NTH Consultants

Date: 4/14/2023

Recommended by: *Joe S. Swek*
Joe S. Swek, P.E. - Consulting Engineer (Fishbeck)

Date: 4/14/2023

Recommended by: *Evangelos Bantios*
Evangelos Bantios, P.E. - Project Engineer

Date: 4/14/2023

Approved by: _____
Joel Brown, P.E. - Chief Engineer

Date: _____

Approved by: _____
Sid Lockhart, P.E. - Special Project Manager

Date: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Approved by Board on: _____

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the EVERGREEN - FARMINGTON SANITARY DRAIN SYSTEM

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting *for Shawn Phelps*

DATE: April 25, 2023

SUBJECT: Request for Board approval of payment of the following invoices:

Date	Ref No.	Paid To	For	Amount
	TBP	Orchard Hiltz & McCliment Inc	Invoice # 58712 - Contracted Services - 12/31/22	\$ 1,755.84
	TBP	Orchard Hiltz & McCliment Inc	Invoice # 61484 - Contracted Services - 03/25/23	980.84
			Total	\$ 2,736.68

3. Northwest Oakland Sanitary Sewer Drain

AGENDA
DRAINAGE BOARD FOR
THE NORTHWEST OAKLAND SANITARY SEWER DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Presentation on Project Update
5. Present Memorandum from Brian Coburn, P.E., Manager, dated April 25, 2023, requesting the Board receive and file the draft agreement between the Drainage District and Genesee County
6. Other business
7. Approve pro rate payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE NORTHWEST OAKLAND SANITARY SEWER DRAIN**

March 28, 2023

A meeting of the Drainage Board for the Northwest Oakland Sanitary Sewer Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,093.50 (as attached) was presented. It was moved by Markham, supported by Vaara, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,093.50.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Northwest Oakland Sanitary Sewer Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Northwest Oakland Sanitary Sewer Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023

Northwest Oakland Sanitary Drain

Update to Drainage District

April 25, 2023



NW Oakland Sewer Project Phasing

Phase 1—Genesee County Interceptor (\$35 million)

Genesee County's Kearsley Creek Interceptor Sewer will provide access to sanitary sewer in northwest Oakland County

- NW Oakland Share: \$10 million
- 100% Funded by Oakland County ARPA
- **No cost to Oakland County communities**

Phase 2—Dixie Highway Extension

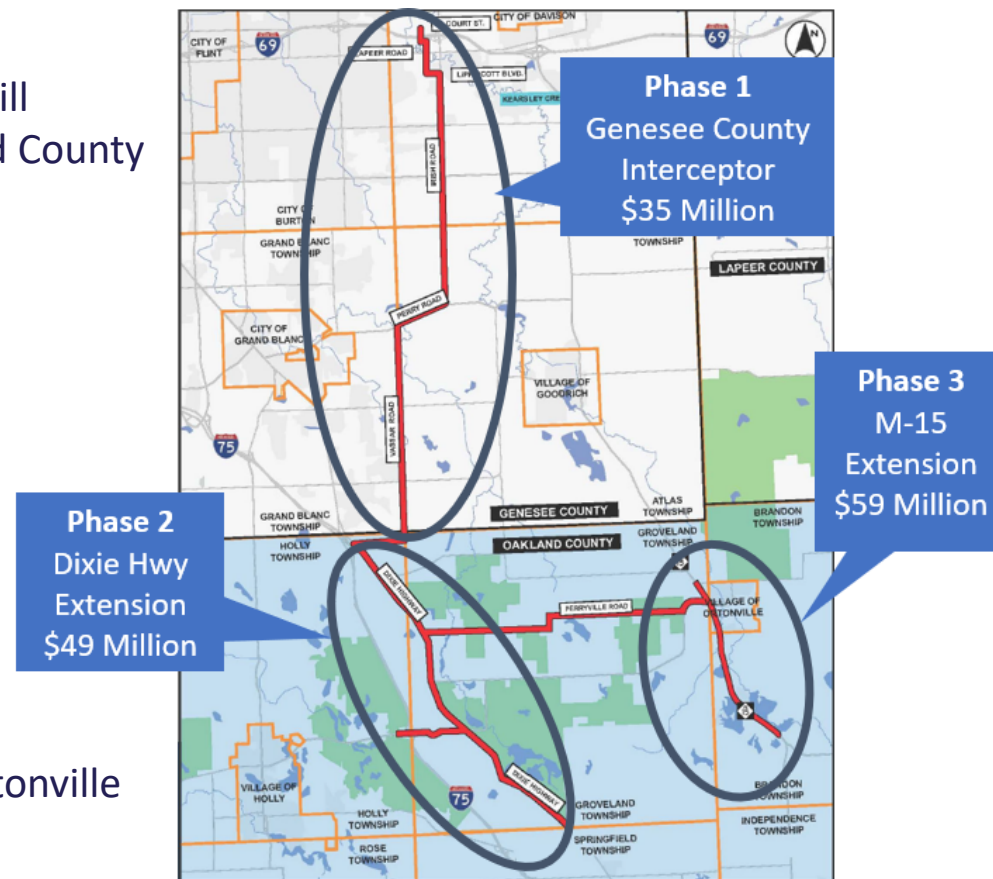
Sewer extension along Dixie Highway to serve Holly and Groveland

- Total Project Cost: \$49 million
- ***Seeking Grant Funds***

Phase 3—M-15 Extension

Sewer extension along M-15 to serve Brandon and Ortonville

- Total Project Cost: \$59 million
- ***Seeking Grant Funds***



Work Completed to Date



2019

- KCI Project initiated by Genesee County
- Oakland County meets with stakeholders to identify need
- Initiate Feasibility study

2020

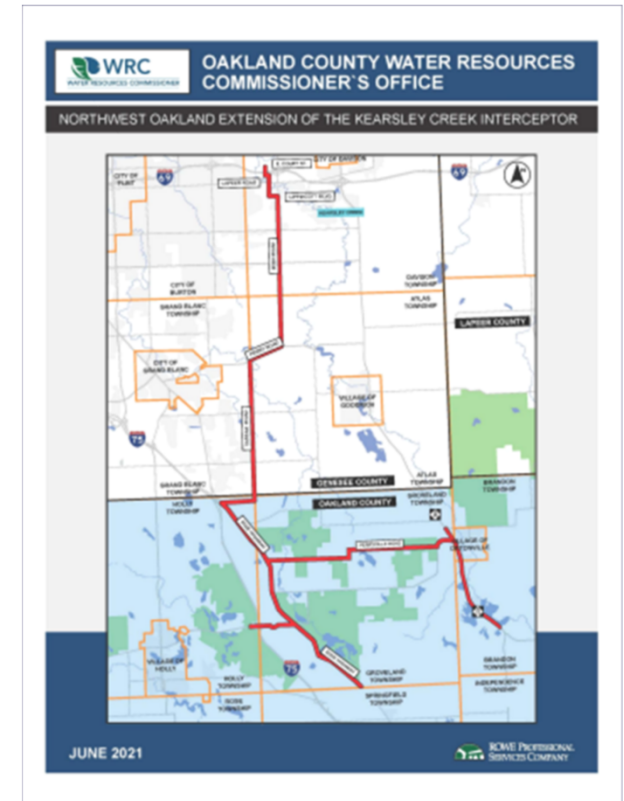
- Meet with Stakeholders monthly
- Present progress and updates to the NW Oakland communities

2021

- Feasibility Report completed and presented
- WRC works to identify funding for the project

2022

- Communities pledge \$200,000 for initial project planning
- Oakland County commits \$10 million to the project
- Formation of Northwest Oakland Sanitary Drain Drainage District



Genesee County Purchase Agreement

COST CAPPED AT
\$10M

Purchase is Capped at \$10,000,000

The sewer capacity purchased will be calculated with a cap of \$10 million.

NW Oakland participation in Genesee County's Kearsley Creek Interceptor (KCI) project

Allocate costs to participants based on flow capacity in the new sewer

Genesee County to hold 1,990 REUs* for future purchase

No obligation to purchase future capacity

NW OAKLAND IS
28.5%
OF INITIAL
COST

NW Oakland Share is now 28.5%

With the addition of 3 new communities, the overall cost share for NW Oakland decreases.

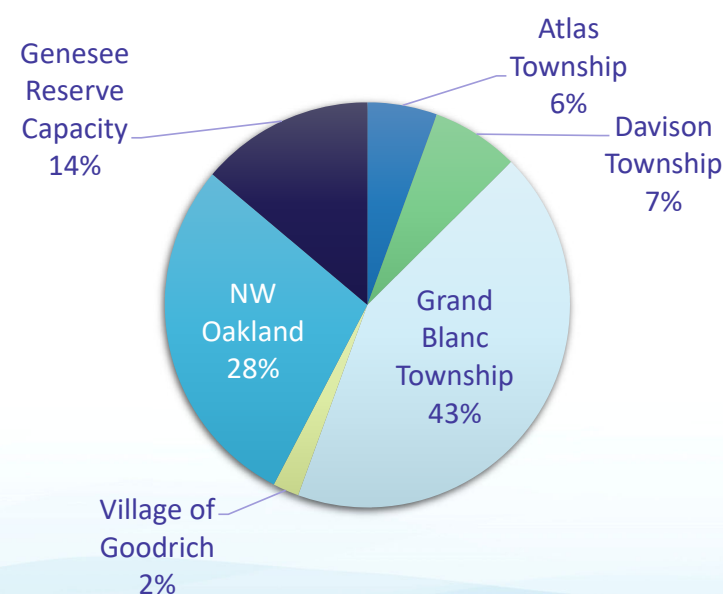
*Residential Equivalent Units

Cost Allocation for Phase 1 (Genesee Project)

Entity	Share of KCI Cost	Residential Equivalent Units	Phase 1 Cost
Atlas Township	5.57%	800	\$1,955,000
Davison Township	6.97%	1,000	\$2,444,000
Grand Blanc Township	43.02%	6,176	\$15,095,000
Village of Goodrich	2.09%	300	\$733,000
NW Oakland Sanitary District*	28.50%	4,091	\$10,000,000
Genesee County (Reserve Capacity)	13.86%	1,990	\$4,863,000
TOTAL	100%	14,357	\$35,090,000

*See next slide for breakdown

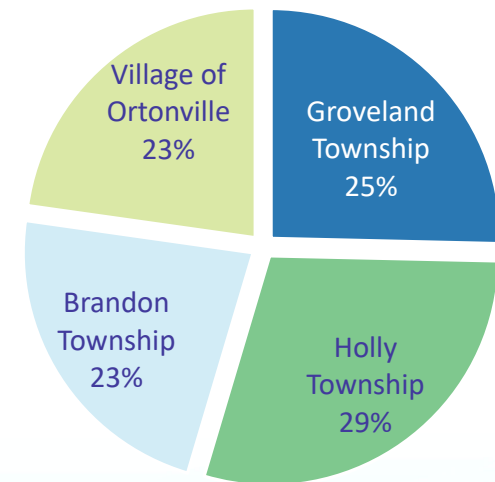
Initial Contract Capacity by Customer



NW Oakland Allocation for Phase 1

Community	Initial REUs	Future REUs	Percent of NOSDDD	Phase 1 Cost
Groveland Township	1,030	1,542	25.4%	\$0
Holly Township	1,363	1,778	29.2%	\$0
Brandon Township	847	1,377	22.6%	\$0
Village of Ortonville	851	1,384	22.8%	\$0
Oakland County	0	0	0	\$10,000,000
TOTAL	4,091	6,081	100%	\$10,000,000

- Allocation determined by 2022 Feasibility Study based on future land use and estimated flow.
- The initial contract will provide \$10,000,000 of capacity which would be allocated per the table
- There are no direct costs to the communities

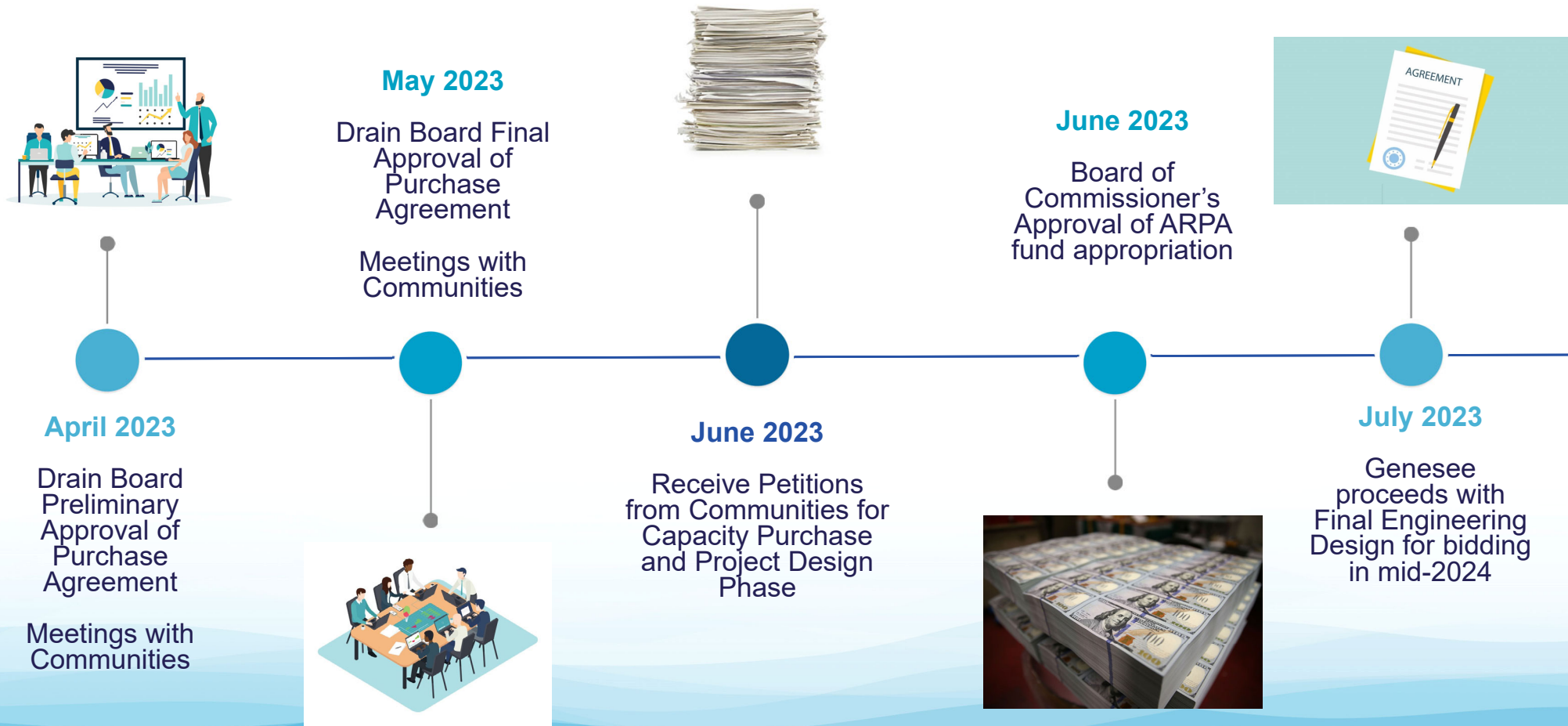


Sequential Petition Process for Project

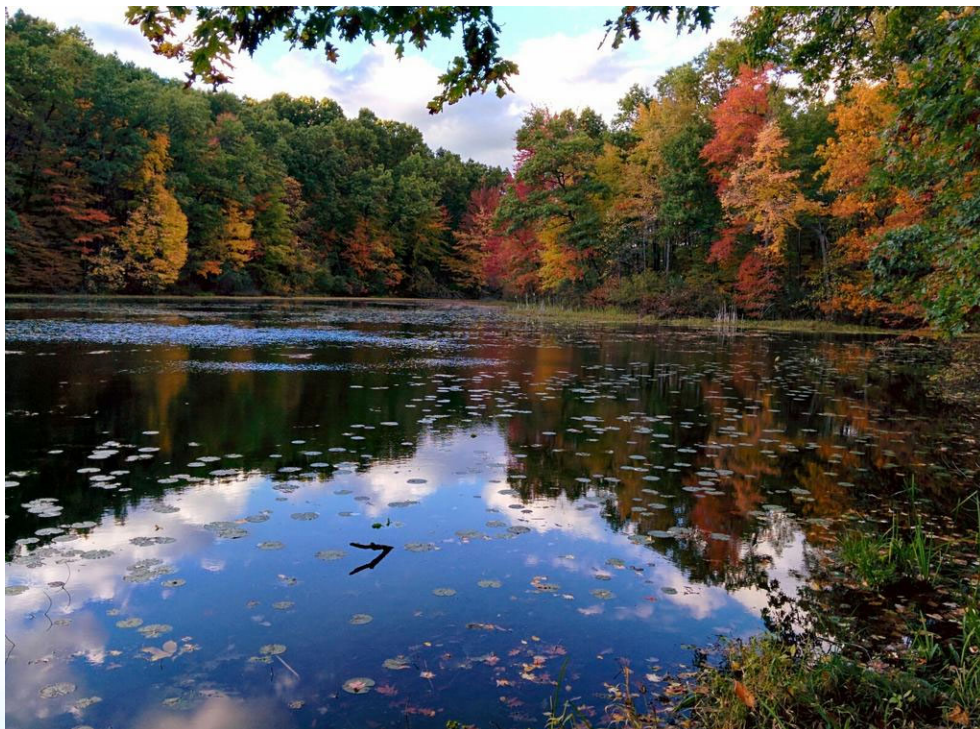
Petition/ Phase	Petitioned Project	Estimated NW Oakland Costs
Study (80% Complete)	<u>Study and Planning Phase (Current Petition)</u> 1. Study of the feasibility to extend sewer to Oakland County and serve certain parts of the communities 2. Negotiation of an agreement to get capacity 3. Seek grants	\$0 additional (\$200,000 already approved with resolutions)
 1 (Current Phase)	<u>Genesee County Project (KCI)</u> The right to place sanitary flow to a sewer line of appropriate capacity into a Genesee County system that will be extended to the Oakland County and Genesee County line.	\$10 million (Oakland ARPA) (Proposed agreement limits the amount for NW Oakland cost at \$10 million of ARPA allocated by Oakland County.) 
2 FUTURE	<u>Dixie Highway Extension</u> The construction of a sewer extension along Dixie Highway and Grange Hall Road	\$49 million (seeking for grant funding from the infrastructure bill)
3 FUTURE	<u>M-15 Corridor Extension</u> encompass an additional sewer extension along Perryville Road to serve the Village of Ortonville and Brandon Township	\$59 million (seeking for grant funding from the infrastructure bill)

Originally presented in March 2022, updated 3/29/2023

Next Steps/Schedule



Summary



Draft Purchase Agreement is ready for approval by the Drain Board

Petitions are needed from the Communities by June 2023 to participate in the KCI project

Participation is limited to \$10,000,000 in Oakland County ARPA Fund that is already allocated to the project.

No additional cost to NW Oakland Communities for this next phase

Ready to request appropriation of the \$10,000,000 that was allocated by the Board of Commissioners for this project.

Acquire \$1,000,000 funding from Congressionally Directed Community Projects for next phase design.

WRC Continues to seek grant funds for Phase 2 and 3

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairperson
Northwest Oakland Sanitary Drain Drainage District

FROM: Brian Coburn, P.E., Manager

SUBJECT: Northwest Oakland Sewer Purchase Agreement with Genesee County

DATE: April 25, 2023

Over the past several months we have been working with the Genesee County Drain Commissioner's Office to acquire sanitary sewer capacity in conjunction with a project in Genesee County that will extend sewer to the Oakland County boundary making it available for communities in northwest Oakland County. Sewers are needed in this area to address failing septic systems in the environmentally sensitive headwaters of the Flint River. The communities are fully engaged in this effort and understand the significant impact to their local community and the environment of this once in a lifetime opportunity to provide sewer service in discrete areas in harmony with their Master Plan for Land Use.

The project involves the construction of the Kearsley Creek Interceptor sewer by Genesee County that is sized to accommodate flow from selected areas within the Drainage District. A purchase agreement is needed to allocate the total project cost of \$35 million and acquire sewer capacity in the system. Through negotiations with Genesee County, the agreement limits the obligation of the Drainage District to the \$10 million in American Rescue Plan funds that has been allocated by Oakland County for the project. Additionally, three Genesee County municipalities were added to the project, further reducing the allocated cost to the district. Finally, the agreement provides the Drainage District with the first right of refusal for the future purchase of reserve capacity held by Genesee County.

We are scheduled to present an update to each community over the next month and solicit petitions to demonstrate their continued support for the project. Additionally, we plan to request appropriation of the \$10 million from the Board of Commissioners starting with committee meetings in May and a request to the full board in June. Upon receipt of petitions from the communities, we will return to the Drain Board for final approval of the agreement.

Upon execution of the agreement, Genesee County will begin final design of the project. Bidding is expected to occur in mid-2024, with construction to commence soon after.

We have reached a major milestone in the acquisition of sanitary sewer capacity for the northwest Oakland communities. Our office continues to look for funding opportunities to construct the remaining phases of sewer extensions within Oakland County.

RECOMMENDED ACTION: Receive and file the draft agreement.

KEARSLEY CREEK INTERCEPTOR CONSTRUCTION AGREEMENT

This **KEARSLEY CREEK INTERCEPTOR CONSTRUCTION AGREEMENT** (“Agreement”), effective as of the ____ of _____, 2023, is entered into by and between the **COUNTY OF GENESEE** (the “County”), a Michigan municipal corporation, acting by and through its Drain Commissioner, in his capacity as the duly appointed and acting county agency (“County Agency”) pursuant to the provisions of Act 342, Public Acts of Michigan, 1939, as amended (“Act 342”), and the **DRAINAGE BOARD FOR THE NORTHWEST OAKLAND SANITARY DRAIN DRAINAGE DISTRICT** (“NW Oakland District”), a drainage district organized and formed under and pursuant to Chapter 20 of Act 40, Public Acts of Michigan, 1956, as amended (“Drain Code”) (the County and the NW Oakland District are sometimes referred to herein as a “Party,” and collectively, as the “Parties”).

WHEREAS, Act 342 provides that a county board of commissioners of a county may authorize and direct that there be established a system or systems of water, sewer, or sewage disposal improvements and services within or between cities, villages, townships, charter townships, or any duly authorized and established combinations thereof, within or without the county, and to enter into contracts with drainage districts established under Chapter 20 of the Drain Code; and

WHEREAS, the Board of Commissioners (formerly the Board of Supervisors) of the County, by resolution adopted on October 8, 1961 (“Resolution”), authorized and directed that there be established, pursuant to Act 342, a system of sewer and sewage disposal improvements and services (designated therein as “Genesee County Sanitary Sewage Disposal System No. 1,” and sometimes referred to herein as the “System”) to provide sewers and sewage disposal improvements and services to units of government (as defined in Act 342), as approved from time to time by the Board of Commissioners; and

WHEREAS, pursuant to the Resolution, the County Agency has been designated as the “county agency” of the County under the provisions of Act 342 in connection with the establishment of the System and as the person to have supervision and control of the management and operation of the System; and

WHEREAS, the NW Oakland District was established pursuant to Chapter 20 of the Drain Code and is authorized by Section 471 of the Drain Code to contract with any public corporation, including, but not limited to, the County; and

WHEREAS, the NW Oakland District service area includes portions of the Township of Holly, the Charter Township of Brandon, the Township of Groveland, and the Village of Ortonville, each located in Oakland County, Michigan, as more particularly described herein (“NW Oakland District Service Area”); and

WHEREAS, the NW Oakland District has requested that the County acquire and construct an extension to the System, to be known as the Genesee County Kearsley Creek Interceptor (“KCI”), for the purpose of transporting sewage flow from the NW Oakland District Service Area to the County’s Anthony Ragnone Treatment Plant (“ARTP”) for treatment and disposal, all as more particularly described herein; and

WHEREAS, the Charter Township of Grand Blanc, the Charter Township of Davison, the Village of Goodrich and the Township of Atlas, each a unit of local government located in the County (collectively, the “Genesee Municipalities”), will purchase additional units of capacity in the KCI for the transportation and disposal of sewage flow originating in the Genesee Municipalities pursuant to contracts to be entered into by and among the County, acting through the County Agency, and the Genesee Municipalities; and

WHEREAS, the County Agency has caused to be prepared maps, plans, designs, specifications and an estimate of cost of the KCI, and has caused the same to be filed with the Board of Commissioners of the County; and

WHEREAS, the County and the NW Oakland District desire to set forth the terms and conditions upon which the County, acting through the County Agency, will acquire and construct the KCI for the transportation of sewage flow from the service area of the NW Oakland District for treatment and disposal at the ARTP.

NOW, THEREFORE, THE COUNTY OF GENESEE, ACTING THROUGH THE COUNTY AGENCY, AND THE DRAINAGE BOARD FOR THE NORTHWEST OAKLAND SANITARY DRAIN DRAINAGE DISTRICT, MUTUALLY AGREE AS FOLLOWS:

1. Acquisition and Construction of the KCI; Service Area. The County will acquire and construct, pursuant to the provisions of Act 342, and as otherwise provided by law, the sewer and sewage disposal system improvements shown and described in Exhibit A attached (“Improvements and sometimes referred to herein as the ‘Project’”). The improvements to be acquired and constructed pursuant to this Agreement shall comprise and be designated as the “Genesee County Kearsley Creek Interceptor” (“KCI”). The KCI will be designed and constructed as an extension of the System, which will transport sewage flow from the service area of the NW Oakland District described in Exhibit B (“NW Oakland District Service Area”), and from the Genesee Municipalities, to the ARTP for treatment and disposal.

2. Construction; Plans and Specifications. Subject to the terms of this Agreement, the KCI will be acquired and constructed by the County substantially in accordance with the preliminary plans which have been secured by the County Agency, and in accordance with the final plans to be secured by the County Agency, but variations therefrom which do not materially change the location, capacity, or overall design of the KCI shall be permitted by the County Agency if, in its reasonable judgment, circumstances so warrant.

3. NW Oakland District Service Area Local Collection System. The KCI is to serve the NW Oakland District and not the individual property owners located in the NW Oakland District Service Area, unless an exception shall be made by the County Agency by special written agreement between the County Agency and the NW Oakland District. The NW Oakland District Service Area, area from which sewage is to be transported and disposed, shall not be enlarged or extended into new or additional territories without the prior written approval of the County. NW Oakland District may modify its service area but cannot change the area subject to this Agreement without the written approval of the County. The NW Oakland District shall be solely responsible for the collection of sewage flow in the NW Oakland District Service Area and for transporting the same to the sanitary sewage interceptors of the KCI. The acquisition, construction, financing,

operation and maintenance of all collecting sewers and sewage disposal improvements necessary to transport sewage flow from the NW Oakland District Service Area to the sanitary sewage interceptors of the KCI shall be the sole responsibility of the NW Oakland District, and the County shall have no responsibility therefor.

4. Capacity; Maximum Flow. The Main Interceptor and Pumping Stations and Branches (as those terms are described and depicted in the preliminary plans) of the KCI are designed to accept a maximum rate of flow in cubic feet per second (“cfs”) from the NW Oakland District and from each of the Genesee Municipalities as set forth in Section 6 hereof. Except as provided in Section 11(b) of this Agreement, the NW Oakland District and each of the Genesee Municipalities will be limited to the specific maximum rate of flow specified in Section 6 hereof.

5. Estimated Cost of the KCI. The estimated total cost of the KCI Improvements, as established by the County’s consulting engineers, Rowe Professional Services Company (the “Consulting Engineers”), is \$35,090,000, which includes both design and construction, and said estimate of Cost is approved by the NW Oakland District and Genesee Municipalities. As used in this Agreement, the term “Cost” is defined as follows: the total cost of the physical structures, the acquisition of property for sites and rights-of-way, permits, labor and materials necessary to acquire and construct the improvements comprising the KCI, engineering and legal fees, administration expenses during the period of construction, reasonable and customary contingencies, and other reasonable costs incidental to the acquisition and construction of the KCI Improvements.

6. Allocation and Payment of Cost of the KCI. The cost of the KCI Improvements shall be allocated among the NW Oakland District and the Genesee Municipalities in accordance with the percentages set forth in the following table under the heading, “Allocable Percent Share of the KCI Cost.” The following table also sets forth the respective capacity rights of the NW Oakland District and each of the Genesee Municipalities in the KCI, measured in residential equivalent units (“REUs”), and the corresponding maximum rate of flow (measured in cfs) of the NW Oakland District and each of the Genesee Municipalities.

Entity	Allocable Percent Share of KCI Cost	Residential Equivalent Units
NW Oakland District	28.50	4,092
Atlas Township	5.57	800
Charter Township of Davison	6.97	1,000
Charter Township of Grand Blanc	42.63	6,121
Village of Goodrich	2.09	300
Genesee Reserve Capacity	14.24	2,044
TOTAL	100%	14,357

The County will reserve 2,044 REUs “Reserve Capacity” upon completion of the Project. NW Oakland District has the right of first refusal to acquire some or all of the Reserve Capacity. The cost for the Reserve Capacity shall be calculated as the total Project cost (\$35,090,000) divided

by the total number of REUs (14,357), which in this case is \$2,444.10 per REU. The County shall offer the units first to the NW Oakland District in writing. The NW Oakland District has sixty (60) days to determine if it will exercise their claim to the units. After NW Oakland District's response, or sixty (60) days has lapsed, the County may convey or allocate any of the Reserve Capacity to any other entity, including, but not limited to, a Genesee Municipality. The NW Oakland District's declination of its right of first refusal to some of the Reserve Capacity does not waive its right of first refusal to the remainder of the Reserve Capacity. If the NW Oakland District selects to exercise its claim on the units under consideration, it has One Hundred Twenty (120) days to purchase the units from the County.

7. Final Plans and Specifications; Bidding and Contracting. After execution of this Agreement by the Parties, the County Agency shall complete or cause the following to be completed:

- (a) Direct the Consulting Engineers to prepare final plans and specifications for the KCI Improvements.
- (b) Take bids for the construction of the KCI Improvements from responsible bidders.
- (c) After receipt of bids for construction of the KCI Improvements, and before the final award of any construction contracts, provide the NW Oakland District with (i) a detailed summary of bids received, (ii) the total estimated Cost of the construction of the KCI Improvements, taking into account the as-bid contract prices of the lowest responsible bidders, and (iii) the NW Oakland District's share of the Cost of the KCI Improvements, which for the NW Oakland District is fixed at \$10,000,000 (the "Total NW Oakland District Cost").

8. Payment of Total NW Oakland District Cost. Within sixty (60) days of receipt of the information described in Section 7(c) of this Agreement, the NW Oakland District shall pay, or cause to be paid, to the County, the Total NW Oakland District Cost. All funds received by the County pursuant to this Section 8 for the payment of the Total NW Oakland District Cost shall be maintained by the County Agency, or by the Treasurer of the County, as a separate account, and shall be applied by the County solely to the payment of the Cost of the acquisition and construction of the KCI Improvements. Following receipt of payment in full by the NW Oakland District of the Total NW Oakland District Cost, the County Agency shall proceed to make a final award of construction contracts for the KCI, negotiate and enter into construction contracts, apply for any necessary permits and right-of-way not yet obtained, and proceed with the acquisition and construction of the KCI Improvements. The County Agency shall not be obligated to make any final award of contracts for construction of the KCI, or to enter into any construction contracts, until such time as the NW Oakland District has paid the total NW Oakland District Cost as provided in this Section 8.

9. Cost Overruns; Cost Savings.

- (a) For the NW Oakland District, the Total NW Oakland District Cost is fixed at \$10,000,000. Therefore, in the case of a cost overrun, the number of REUs and percent capacity assigned to NW Oakland District would be reduced using newly calculated cost per REU. The method described in Section 6 shall be used to calculate the newly calculated cost per REU.
- (b) If, upon final completion of the acquisition and construction of the KCI Improvements and the payment of all Costs in connection therewith, there remain any surplus funds for the acquisition and construction of the KCI Improvements from the funding sources as provided in Section 6 or Section 9(a) of this Agreement due to cost savings or otherwise (“Construction Surplus”), the total amount of the Construction Surplus shall be allocated and credited to the NW Oakland District and each of the Genesee Municipalities in the same allocation proportion in Section 6 of this Agreement. The County shall, within sixty (60) days of the County Agency’s final accounting of the amount of any Construction Surplus, remit the NW Oakland District’s proportionate share of the Construction Surplus (if any) to or upon order of the NW Oakland District.

10. Operation and Use of the KCI. Before, and as a condition of, making any connection to the KCI, the NW Oakland District shall enter into a mutually acceptable sewer use and operating agreement (the “Operating Agreement”) with the County, acting through the County Agency, which will establish the agreement of the Parties relative to the use and operation of the KCI and the fees and charges to be assessed against the NW Oakland District for use of the sewage transport and disposal services furnished by the KCI and the ARTP. The Operating Agreement will, among other things, contain provisions governing:

- (a) Connections to the KCI during or after completion of construction of the KCI, which shall be made by the NW Oakland District at its own expense, after first securing a permit therefor from the County Agency, which permit shall not be unreasonable withheld.
- (b) The character of sewage flow discharged to the KCI, which shall be subject to the County Agency’s standards and regulations, including regulations governing the discharge of industrial and/or commercial type wastes.
- (c) The operation, maintenance and calibration of a master meter through which all sewage discharge originating in the NW Oakland District Service Area must flow (“Master Meter”). The NW Oakland District’s charges for the transportation and treatment of sewage flow from the NW District Service Area, as described in Section 10(d) below, shall be based on the Master Meter readings. The NW Oakland District shall have reasonable access to the Master Meter data, including, but not limited to, an exclusive split data signal feed. The Master Meter is included in the Cost of the KCI and will be installed and owned by the County. No final connection to the KCI shall be made by the NW Oakland District prior to the installation of the Master Meter.

- (d) Payment by the NW Oakland District of monthly or quarterly service charges established from time to time by the County Agency for the transportation and treatment of sewage flow from the NW Oakland District Service Area. Such charges shall be calculated upon the basis of metered sewage flow from the NW Oakland District Service Area using such reasonable means as the County Agency may determine, without unjust enrichment. The rates and charges to be established from time to time by the County Agency and assessed against the NW Oakland District and the Genesee Municipalities will be sufficient to provide for (i) the costs of operating and maintaining the KCI and the treatment and disposal of sewage flow at the ARTP received by the ARTP from the KCI, and (ii) the establishment and maintenance of reserve funds in such amounts as may be reasonably determined by the County Agency for the maintenance, repair and replacement of the physical assets of the KCI and of the ARTP.
- (e) Payment by the NW Oakland District of the applicable County Capital Improvement Fee ("CCIF") for each connection to the KCI. The KCI is connected to, and is an extension of, the Northeast Extension Sewer Interceptor ("NEES"). The County Agency has established a CCIF for each direct or indirect connection to the NEES. The NW Oakland District shall pay to the County Agency a CCIF for each connection to be made to the KCI in accordance with the CCIF methodology established by the County Agency for connections to the NEES, which methodology shall be set forth in the Operating Agreement.
- (f) Late payment charges for failure by the NW Oakland District to make payment of any charges provided by the Operating Agreement when due, which shall accrue on all past due amounts at the rate of one-half of one percent (1/2 of 1%) for each month or fraction thereof that the same remains unpaid after the due date, unless there is good faith dispute pursuant to the dispute resolution provisions of the Operating Agreement.

11. Project Completion; Assignment of Capacity Rights.

- (a) Upon completion of the acquisition and construction of the KCI, the connection of the NW Oakland District to the KCI and the KCI accepting sewage flow from the NW Oakland District, and the execution by the Parties of the Operating Agreement pursuant to Section 10 hereof, the County will, subject to the terms of this Agreement and the Operating Agreement, accept for transportation and treatment the sewage flow from the NW Oakland District Service Area; provided, however, that the NW Oakland District will be limited to the specific maximum rate of flow specified Section 6 of this Agreement. Except as otherwise provided in Section 11(b) of this Agreement, after such maximum rate of flow has been reached by the NW Oakland District (which maximum flow rate shall be defined in the Operating Agreement), the County is not required to allow any new lateral sewer of the NW Oakland District to be connected to the KCI, or to any sewer connected directly or indirectly to the sanitary sewer systems served by the ARTP where such lateral

sewer is for the delivery of sewage to be transported by the KCI and treated by the ARTP.

- (b) The NW Oakland District may, by separate agreement with one or more of the Genesee Municipalities, assign any part of its allocated maximum rate of flow as measured in cfs in the KCI, as provided in this Agreement, to one or more of the Genesee Municipalities, or accept an assignment from one or more of the Genesee Municipalities of part of its allocated maximum rate of flow in the KCI, upon such terms as may be agreed upon, and in each case subject to the written approval of the County Agency, which approval shall not be unreasonably withheld. No assignment of capacity rights as provided in this Section 11(b) shall in any way affect, change or in any way diminish the obligations of the NW Oakland District as set forth in this Agreement.

12. Governing Law. This Agreement is made and entered into in the state of Michigan and shall be interpreted, enforced, and governed under the laws of the state of Michigan. The language of this Agreement is intended to be construed as a whole according to its fair meaning and not construed strictly for or against any Party.

13. Lawsuits and Claims. The Parties agree that each must bear all the costs (direct or indirect) and expenses of any lawsuits, disputes, or claims of any kind arising directly or indirectly out of this Agreement.

14. Third Party Beneficiaries. There are no intended third party beneficiaries to this Agreement.

15. Governmental Function. This Agreement does not, and is not intended to, impair, divest, delegate, or contravene any constitutional, statutory, or other legal right, privilege power, obligation, duty, or immunity of the Parties. The obligations in this Agreement are in the exercise or discharge of a governmental function.

16. Notices. Notice of a legal nature shall be sent by certified first class mail, return receipt requested or by personal delivery as follows:

County and County Agency:

Jeff Wright
Genesee County Drain Commissioner
G-4610 Beecher Rd.
Flint, Michigan 48532

NW Oakland District:

Jim Nash
Oakland County Water Resources Commissioner
One Public Works Drive, Building 95-West
Waterford, Michigan 48328

All Notices shall be considered delivered to a Party on the date of receipt as represented by the return receipt or by proof of personal service. Any Notice given must be signed by an authorized representative.

17. Entire Agreement, Amendment, Counterparts, and Enforceability. This Agreement sets forth the entire understanding of the Parties concerning its subject matter. The terms and conditions are contractual and not mere recital. This Agreement may be amended only by a writing executed by all Parties with persons with legal authority to bind the respective Party. This Agreement may be executed in several counterparts, each of which shall be considered an original, but all of which shall constitute one and the same instrument. The exhibits and the recital and whereas provisions of this Agreement are considered an integral part of this Agreement. If any provision of this Agreement is judicially determined to be invalid or unenforceable, the remainder of this Agreement (other than those found to be invalid or unenforceable) is not affected and is enforceable, provided that the invalid or unenforceable provision does not substantially alter the Agreement or make execution impractical.

18. Successor and Assigns. This Agreement is binding on, and for the benefit of, the Parties and their respective their successors and assigns.

19. Effective Date. This Agreement shall become effective as of the date first written above.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed effective as of the date and year first above written.

In the presence of :

NORTHWEST OAKLAND SANITARY DRAIN DRAINAGE DISTRICT, a drainage district organized and existing under and pursuant to Chapter 20 of Act No. 40, Public Acts of Michigan 1956, as amended

By _____
Jim Nash, Chairperson
Drainage Board for the Northwest
Oakland Sanitary Drain Drainage District

In the presence of :

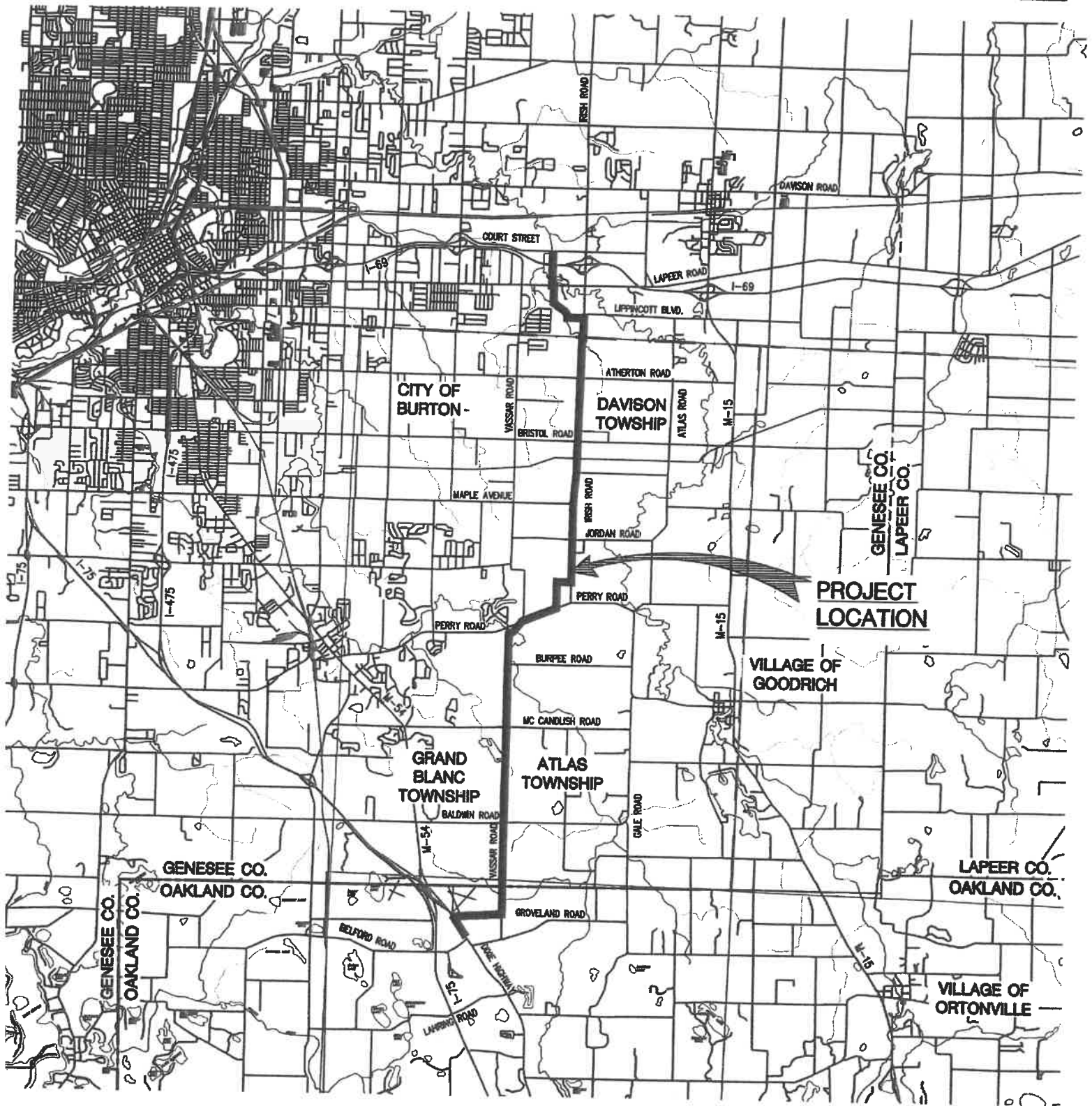
**COUNTY OF GENESEE, MICHIGAN,
by and through its COUNTY AGENCY**

By _____
Jeffrey Wright
Genesee County Drain Commissioner

EXHIBIT A

KCI ROUTE

EXHIBIT A KCI PHASE 1



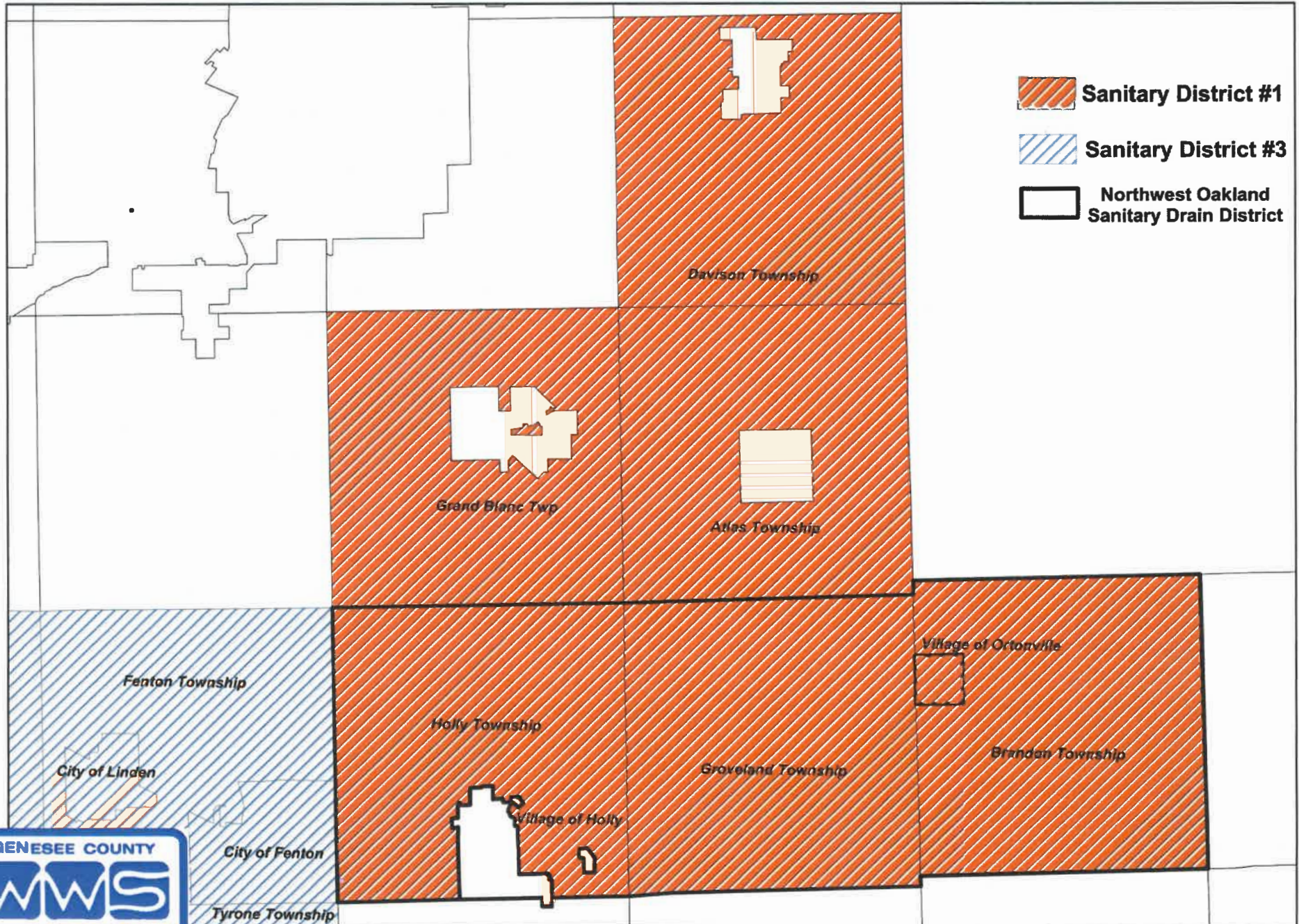
LOCATION MAP

EXHIBIT B

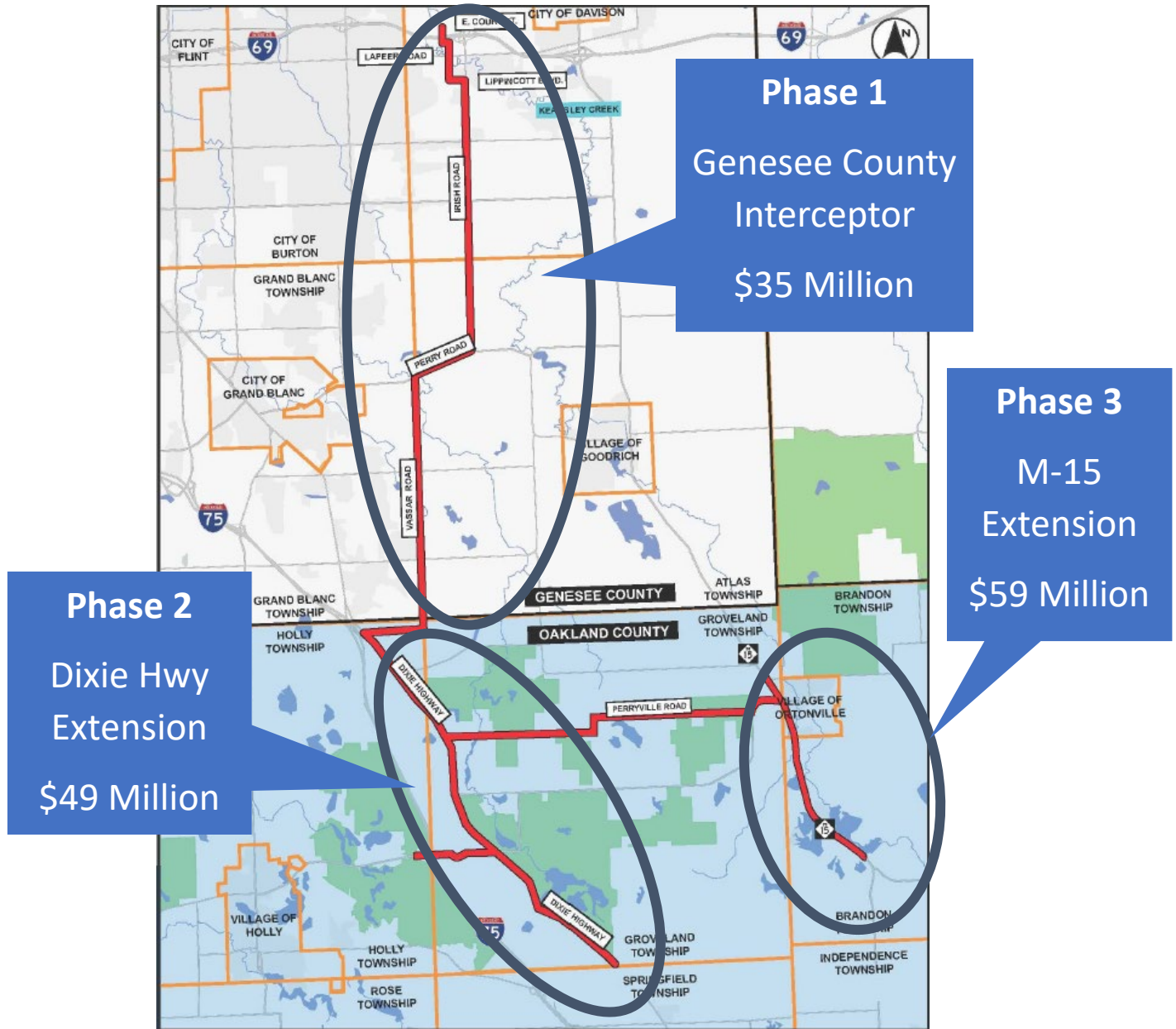
KEARSLEY CREEK SERVICE AREA

KCI Service Area

Exhibit B



PROJECT LOCATION MAP



4. Acacia Park CSO

AGENDA

DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Present Memorandum from Lesli Maes, Operations Engineer, dated April 25, 2023, requesting the Board approve the Drainage District projects listed using funds from the Major Maintenance and Capital Improvement reserves
5. Present Memorandum from Lesli Maes, Operations Engineer, dated April 25, 2023, requesting the Board approve the Drainage District capital improvement reserves project for dewatering valves and actuators replacement for the budgeted amount of \$250,000 and approve issuance of notice to proceed to Weiss Construction for the not-to-exceed amount of \$211,650
6. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$103,963.74
7. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$1,832.00
8. Other business
9. Approve pro rata payment to Drainage Board members
10. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE ACACIA PARK CSO DRAIN**

March 28, 2023

A meeting of the Drainage Board for the Acacia Park CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Jim Nash, Oakland County Water Resources Commissioner

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$5,333.63 (as attached) was presented. It was moved by Markham, supported by Vaara to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$5,333.63.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Acacia Park CSO Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Acacia Park CSO Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**
MEMORANDUM

TO: Jim Nash, Chairman
Acacia Park CSO Drainage Board

FROM: Lesli Maes, Operations Engineer

SUBJECT: Acacia Park CSO Retention Treatment Basin
Major Maintenance and Capital Improvement Projects for Approval

DATE: April 25, 2023

Recommendations for rehabilitation or replacement of assets within the Acacia Park CSO Drainage District are continually being identified, evaluated and planned for by WRC staff including the asset management group, staff engineers and operations supervisors.

Below are major maintenance and capital improvement projects for the Acacia Park Retention Treatment Basin Facility that are proposed to be initiated at this time.

Major Maintenance Projects	Project Budget
Acacia RTB Inspect & Rehab 4 Backwater Gates	\$ 50,000
Acacia RTB Rehab 3 Groundwater Pumps (2023-2025)	\$ 45,000
Major Maintenance Subtotal:	\$ 95,000

Capital Improvement Projects	Project Budget
Acacia RTB Replace Dewatering Valves & Actuators (2023-2024)	\$ 250,000
Acacia RTB Replace Control Panel, RBCP (2023-2024)	\$ 170,000
Acacia RTB Replace 2 Induction Units	\$ 70,000
Acacia RTB Replace Dewatering Flow Meter	\$ 50,000
Capital Improvement Subtotal:	\$ 540,000

This work has been planned and budgeted for in the Acacia Park CSO RTB Reserves.

Board Action Requested:

Approve the Acacia Park Retention Treatment Basin projects listed using funds from the Major Maintenance and Capital Improvement reserves.

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairman
Acacia Park CSO Drainage Board

FROM: Lesli Maes, Operations Engineer

SUBJECT: Acacia Park CSO Retention Treatment Basin
Dewatering Valves & Actuators Replacement Project Approval

DATE: April 25, 2023

WRC staff is requesting approval to initiate a \$250,000 capital improvement reserves project to replace dewatering valves and actuators at the Acacia Park Retention Treatment Basin. These five, 18" plug valves control the flow between the basin cells and the wet well. Each valve is operated with an electric actuator that opens and closes the valves as required. This equipment is all original to when the facility was originally constructed in 1998 and is reaching the end of useful life.

Staff have worked with Weiss Construction to examine multiple options to best address the replacement of the dewatering valves and actuators. After reviewing the attached proposal, we recommend issuing Weiss Construction notice to proceed with option #2b for the not to exceed cost of \$211,650 to perform the recommended scope of work.

Board Action Requested:

Approve the Acacia Park RTB capital improvement reserves project detailed above for the budgeted amount of \$250,000 and approve issuance of notice to proceed to Weiss Construction for the not to exceed amount of \$211,650.





WEISS CONSTRUCTION CO., L.L.C.

41001 GRAND RIVER AVENUE
NOVI, MI 48375
TEL # (313) + 567-4500
FAX # (313) + 567-7635

13 March 2023

Oakland County WRC
One Public Works Drive
Waterford MI 48328

Ms. Lesli Maes
248-568-5058
MaesL@Oakgov.com

Re: WRC Acacia Park RTB Dewatering Plug Valve Replacement – Revision #2

Dear Ms. Maes,

Thank you for the opportunity to quote the complete project for the WRC Acacia RTB Dewatering Plug Valve Replacement . Please see our scope of work below:

Price Includes:

- Furnish and install qty. (5) 18” plug valves. Valve plug will be rotated up, when in the open position. Valve will be replaced one at a time, unless otherwise agreed upon. Valves will be furnished with a bare stem or actuators as listed below.
- Use of owners gantry crane and access hatch.
- Electrical disconnect and reconnect.
- Touch up paint, where disturbed by our work.
- Sales tax.

Price Exclude:

- Bond, available at an added cost see below.
- Additional means of hoisting valves to lower level.
- Flushing of piping.
- Electrical upgrade of wires or switch gear.
- SCADA integration or upgrades.
- Overtime, off hours, or shut down.
- Hazardous material identification, testing, and abatement.
- Furnish of contractor’s dumpsters and toilet facilities. We ask that we be able to use owner’s facilities due to the short duration of this project.
- Furnish or install actuator on Valve W-1 as it currently appears to have an electric actuator with pneumatic controller. Information from your SCADA provider will have to be coordinated before this actuator can be quoted.
- Remote hand stations.

Option #1a (Lead Time 26 Weeks): Provide 5 Miliken Plug valves Reuse and remount existing actuator on new valves and confirm operation.\$142,250.00

Alternate #1b (Lead Time 36 Weeks): Provide 5 Miliken valves and add Limitorque “L120” actuator to the 4 of the valves and leave the fifth valve we will uses the existing actuator..... \$213,400.00

Alternate #1c (Lead Time 44 Weeks): Provide 5 Miliken Plug valves and add a Limitorque “MXa” actuator to the 4 of the valves and leave the fifth valve we will uses the existing actuator\$199,000.00

Alternate #1d (Lead Time 26 Weeks): Provide 5 Miliken Plug valves and add a Rotork actuator to the 4 of the valves and leave the fifth valve we will uses the existing actuator\$185,700.00

Option #2a (Lead Time 12 Weeks): Provide 5 Valmatic Plug valves Reuse and remount existing actuator on new valves and confirm operation.... \$168,100.00

Alternate #2b (Lead Time 24 Weeks): Provide 5 Valmatic Plug valves and add a Rotork actuator to the 4 of the valves and leave the fifth valve we will uses the existing actuator\$211,650.00

-Quotation is continued on the next page-

Option #3 (Leak Time 42 Weeks): Provide 5 Kennedy Plug valves and add a Rotork actuator to the 4 of the valves and leave the fifth valve with a pneumatic controls bare stem.....\$228,100.00

Please Note: All lead times are after approved submittals.

This price is good for 30 days
Bonding is available for an additional 1%, at your request.

Feel free to contact us with any questions or concerns. Thank you for this opportunity.

Best Regards,

Jason S. Axelson
Mechanical Estimator

Plb Lic #8000666
Mech Lic #7118600
EIN #38-3439816

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the ACACIA PARK CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

FOR SHAWN PHELPS

DATE: April 25, 2023

SUBJECT: Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund
for the period ending April 14, 2023.

Date	Ref No.	For	Amount
01/31/23	JE# 010341	Jan 2023 Storm Water Flow Charges	\$34,654.58
02/28/23	JE# 011340	Feb 2023 Storm Water Flow Charges	34,654.58
03/31/23	JE# 012177	Mar 2023 Storm Water Flow Charges	34,654.58
		Total	<u>\$103,963.74</u>

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the ACACIA PARK CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

Shawn Phelps

DATE: April 25, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices
for the period ending April 15, 2023

G/L Date	Ref No.	Paid To	For	Amount
3/1/2023	V # SIN00172509	Smiths Waterproofing LLC	Invoice # 36353 - Contracted Services	\$ 1,832.00
			Project # 1-3542 Total	\$ 1,832.00

5. Birmingham CSO

AGENDA

DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Present Memorandum from Lesli Maes, Operations Engineer, dated April 25, 2023, requesting the Board approve the Drainage District projects listed using funds from the Major Maintenance and Capital Improvement reserves
5. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$107,113.50
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$16,573.95
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE BIRMINGHAM CSO DRAIN**

March 28, 2023

A meeting of the Drainage Board for the Birmingham CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$32,152.16 (as attached) was presented. It was moved by Markham, supported by Vaara, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amended amount of \$32,152.16.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Birmingham CSO Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Birmingham CSO Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**
MEMORANDUM

TO: Jim Nash, Chairman
Birmingham CSO Drainage Board

FROM: Lesli Maes, Operations Engineer

SUBJECT: Birmingham CSO Retention Treatment Basin
Major Maintenance and Capital Improvement Projects for Approval

DATE: April 25, 2023

Recommendations for rehabilitation or replacement of assets within the Birmingham CSO Drainage District are continually being identified, evaluated and planned for by WRC staff including the asset management group, staff engineers and operations supervisors.

Below are major maintenance and capital improvement projects for the Birmingham Retention Treatment Basin Facility that are proposed to be initiated at this time.

Major Maintenance Projects	Project Budget
Birmingham RTB Pump Rebuilds P-1 and P-3	\$ 43,000
Major Maintenance Subtotal:	\$ 43,000

Capital Improvement Projects	Project Budget
Birmingham RTB Replace 2 Induction Units	\$ 70,000
Birmingham RTB Replace Intermediate & Effluent Sample Pumps	\$ 10,000
Birmingham RTB Replace Unit Heater UH-5	\$ 8,000
Birmingham RTB Replace Hypochlorite Feed Pump	\$ 17,000
Capital Improvement Subtotal:	\$ 105,000

This work has been planned and budgeted for in the Birmingham CSO RTB Reserves.

Board Action Requested:

Approve the Birmingham Retention Treatment Basin projects listed using funds from the Major Maintenance and Capital Improvement reserves.

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the BIRMINGHAM CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting *J for Shawn Phelps*

DATE: April 25, 2023

SUBJECT: Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund
for the period ending April 15, 2023.

Date	Ref No.	For	Amount
01/31/23	JE# 010341	Jan 2023 Storm Water Flow Charges	\$35,704.50
02/28/23	JE# 011340	Feb 2023 Storm Water Flow Charges	35,704.50
03/31/23	JE# 012177	Mar 2023 Storm Water Flow Charges	35,704.50
		Total	<u>\$107,113.50</u>

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the BIRMINGHAM CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

For Shawn Phelps

DATE: April 25, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices
for the period ending April 15, 2023

G/L Date	Ref No.	Paid To	For	Amount
3/31/2023	V # SIN00171709	DuBois-Cooper	Invoice #20230196 - Contracted Services	\$ 13,824.98
			Sub Total	\$ 13,824.98
	TBP	ICS Integration Services LLC	Invoice # 2688- Contracted Services - Proj 1-3196	\$ 2,748.97
			Sub Total Project # 1-3196	\$ 2,748.97
			Total	\$ 16,573.95

6. Bloomfield Village CSO

AGENDA

DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Present Memorandum from Lesli Maes, Operations Engineer, dated April 25, 2023, requesting the Board approve the Drainage District projects listed using funds from the Major Maintenance and Capital Improvement reserves
5. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$139,625.73
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$20,052.61
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE BLOOMFIELD VILLAGE CSO DRAIN**

March 28, 2023

A meeting of the Drainage Board for the Bloomfield Village CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$16,023.07 (as attached) was presented. It was moved by Markham, supported by Vaara, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$16,023.07.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Bloomfield Village CSO Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**
MEMORANDUM

TO: Jim Nash, Chairman
Bloomfield Village CSO Drainage Board

FROM: Lesli Maes, Operations Engineer

SUBJECT: Bloomfield Village CSO Retention Treatment Basin
Major Maintenance and Capital Improvement Projects for Approval

DATE: April 25, 2023

Recommendations for rehabilitation or replacement of assets within the Bloomfield Village CSO Drainage District are continually being identified, evaluated and planned for by WRC staff including the asset management group, staff engineers and operations supervisors.

Below are major maintenance and capital improvement projects for the Bloomfield Village Retention Treatment Basin Facility that are proposed to be initiated at this time.

Major Maintenance Projects	Project Budget
BV RTB Rehab Control Building Roof	\$ 25,000
Major Maintenance Subtotal:	\$ 25,000

Capital Improvement Projects	Project Budget
BV RTB Rebuild Dewatering Flow Control Valve	\$ 6,000
BV RTB Replace 2 Induction Unit Mixers	\$ 70,000
BV RTB Replace Air Compressor AC-1	\$ 24,000
BV RTB Replace 27 Flushing Valves (2023-2025)	\$ 180,000
Capital Improvement Subtotal:	\$ 280,000

This work was anticipated and budgeted for in the Bloomfield Village CSO RTB Reserves.

Board Action Requested:

Approve the Bloomfield Village Retention Treatment Basin projects listed using funds from the Major Maintenance and Capital Improvement reserves.

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

for Shawn Phelps

DATE: April 25, 2023

SUBJECT: Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund
for the period ending April 15, 2023.

Date	Ref No.	For	Amount
01/31/23	JE# 010341	Jan 2023 Storm Water Flow Charges	\$46,541.91
02/28/23	JE# 011340	Feb 2023 Storm Water Flow Charges	46,541.91
03/31/23	JE# 012177	Mar 2023 Storm Water Flow Charges	46,541.91
		Total	<u>\$139,625.73</u>

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

Shawn Phelps

DATE: April 25, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices
for the period ending April 15, 2023

G/L Date	Ref No.	Paid To	For	Amount
	TBP	Jones Chemicals Inc	Invoice #910210 - Chlorination Supplies	\$ 10,276.72
	TBP	Jones Chemicals Inc	Invoice #910871 - Chlorination Supplies	9,775.89
			Total	<u>\$ 20,052.61</u>

7. George W. Kuhn Drain

AGENDA

DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Present Memorandum from Gary Nigro, P.E., Manager, dated April 25, 2023, requesting the Board approve the rates and charges for the rate year beginning July 1, 2023
5. Present Memorandum from Lesli Maes, Operations Engineer, dated April 25, 2023, requesting the Board approve the Drainage District projects listed using funds from the Major Maintenance and Capital Improvement reserves
6. Present Memorandum from Stephanie Petriello, Environmental Planner, dated April 25, 2023, requesting the Board authorize the Chairman to accept and administer the Southeast Michigan Council of Governments (SEMCOG) grant funding on behalf of the Drainage District for \$95,000
7. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$19,525.71
8. Other business
9. Approve pro rata payment to Drainage Board members
10. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE GEORGE W. KUHN DRAIN**

March 28, 2023

A meeting of the Drainage Board for the George W. Kuhn Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A memorandum from George P. Nichols, P.E., Civil Engineer III, dated March 28, 2023, requesting the Board authorize \$200,000 from the Drainage District's Sewage Disposal Fund to proceed with the completion of the additional siphon cleaning services was presented. It was moved by Markham, supported by Vaara, to authorize \$200,000 from the Drainage District's Sewage Disposal Fund to proceed with the completion of the additional siphon cleaning services as presented.

ADOPTED: Yeas - 2
Nays - 0

A memorandum from George P. Nichols, P.E., Civil Engineer III, dated March 28, 2023, requesting the Board authorize \$8,000 from the Drainage District Sewage Disposal Fund to proceed with the inventory of the College Avenue and Ferndale Drain mapping of sewers and manholes was presented. It was moved by Markham, supported by Vaara, to authorize \$8,000 from the Drainage District Sewage Disposal Fund to proceed with the inventory of the College Avenue and Ferndale Drain mapping of sewers and manholes as presented.

ADOPTED: Yeas - 2
Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$50,004.37 (as attached) was presented. It was moved by Markham, supported by Vaara, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$50,004.37.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the George W. Kuhn Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the George W. Kuhn Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairperson
George W. Kuhn Drain Drainage District

FROM: Gary Nigro, P.E., Manager 

SUBJECT: FY 2023-2024 Rate Recommendation

DATE: April 25, 2023

The purpose of this memorandum is to communicate a recommendation to the Board of the George W. Kuhn Drain Drainage District (GWK) detailing the proposed monthly charges to our customer communities based on approved Great Lakes Water Authority (GLWA) monthly charges for its fiscal 2023-24 rate year.

The attached monthly charges were presented to the GWK customer communities on April 11, 2023. Community representatives were advised that we would continue to follow the rate share calculation based on a five-year average of water volume to determine each community's monthly sewage charge. These percentages are reviewed annually during the rate-setting process. The stormwater charge continues to be based on the apportionment percentages previously adopted by the Board. The revised monthly charges for services will be billed effective July 2023.

Increases in operating, major maintenance, and capital improvement expenses result in an overall 4.0% increase from the previous year for combined sewage and stormwater charges. Please refer to the attached Schedule of Rates and Charges for a list of charges for each community. Detailed worksheets, including a Financial Summary, Monthly Charge Schedule, and Share and Monthly Charge Comparison, are also attached.

Recommended Action: Approve the rates and charges for the rate year beginning July 1, 2023, as presented.

Great Lakes Water Authority
Approved FY 2024 Sewage Disposal System Service Charges and Allocated Revenue Requirements
Effective Date: July 1, 2023

Line No.		Fixed Monthly Charge	Projected Revenue from Charges
		\$/mo	\$
	<u>Suburban Wholesale</u>		
1	OMID	6,081,000	72,972,000
2	Rouge Valley	4,789,300	57,471,600
3	Oakland GWK	3,971,300	47,655,600
4	Evergreen Farmington	3,099,400	37,192,800
5	SE Macomb San Dist	2,146,700	25,760,400
6	Dearborn	1,738,200	20,858,400
7	Grosse Pointe Farms	235,300	2,823,600
8	Grosse Pointe Park	163,100	1,957,200
9	Melvindale	134,700	1,616,400
10	Farmington	102,700	1,232,400
11	Center Line	89,300	1,071,600
12	Allen Park	72,600	871,200
13	Highland Park	464,200	5,570,400
14	Hamtramck	346,100	4,153,200
15	Grosse Pointe	77,100	925,200
16	Harper Woods	18,700	224,400
17	Redford Township	23,100	277,200
18	Wayne County #3	4,500	54,000
19	Subtotal "Regional Wholesale Revenues from Charges"		282,687,600
20	Industrial Specific Revenues		13,912,500
21	Subtotal "Regional Wholesale Revenues from Charges" (a)		296,600,100
	<i>* Wholesale charges will be effective July 1, 2023</i>		
	Detroit Customer Class - \$		
22	<u>Wholesale</u> Revenue Requirement (c)		202,085,600
23	less: Ownership Benefit per Lease		(5,516,000)
24	<u>Net Wholesale</u> Revenue Requirement		196,569,600
25	<u>Indirect Retail</u> Revenue Requirements (d)		35,265,100
26	less: Use of Lease Payment for Debt Service		0
27	<u>Net Indirect Retail</u> Revenue Requirements (d)		35,265,100
28	Subtotal Subject to GLWA Board Approval (24) + (27)		231,834,700
29	<u>Direct Retail</u> Revenue Requirements (e)		57,175,200
30	Total Local System Revenue Requirement (27) + (29)		92,440,300
31	Total Requirement from Detroit Customer Class (a)		289,009,900
(a)	Agrees with "GLWA Budget Schedule 3"		
(b)	Reserved		
(c)	Wholesale revenue requirements for the Detroit Customer Class.		
(d)	Local System revenue requirements related to Master Bond Ordinance (local debt service, etc.)		
(e)	Local System operating expenses (net of shared services reimbursement) and I&E deposit . Not Subject to GLWA Board approval.		
(d)&(e)	Local System information provided from Detroit Water & Sewerage Department as of February 2, 2023.		

Great Lakes Water Authority
Approved FY 2024 Sewage Disposal System
Industrial Specific Retail Charges
Effective Date: July 1, 2023

Industrial Waste Control Charges		
Meter Size	Full Charge	Admin Only Charge
<i>inches</i>	<i>\$/mo</i>	<i>\$/mo</i>
5/8	3.64	0.91
3/4	5.46	1.37
1	9.10	2.28
1-1/2	20.02	5.01
2	29.12	7.28
3	52.78	13.20
4	72.80	18.20
6	109.20	27.30
8	182.00	45.50
10	254.80	63.70
12	291.20	72.80
14	364.00	91.00
16	436.80	109.20
18	509.60	127.40
20	582.40	145.60
24	655.20	163.80
30	728.00	182.00
36	800.80	200.20
48	873.60	218.40

Pollutant Surcharges	
<u>Pollutant</u>	<u>Charge</u>
	<i>\$/lb</i>
BIOCHEMICAL OXYGEN DEMAND (BOD) for concentrations > 275 mg/l	0.361
TOTAL SUSPENDED SOLIDS (TSS) for concentrations > 350 mg/l	0.496
PHOSPHORUS (P) for concentrations > 12 mg/l	6.629
FATS, OIL AND GREASE (FOG) for concentrations > 100 mg/l	0.115
SEPTAGE DISPOSAL FEE Per 500 gallons of disposal	37.00

George W. Kuhn Sewage and Twelve Towns
58510 and 58530
Financial Summary

	2022 Actual	2023 Budget	2024 Forecast	Inc / (Dec)	% Variance
<u>Operating Revenues</u>					
Operating Rate Revenue	\$ 23,488,613.31	\$ 23,928,540.00	\$ 23,895,260.00	\$ (33,280.00)	-0.1%
Operating Non-Rate Revenue	294,366.51	129,750.00	115,720.00	(14,030.00)	-10.8%
Operating Revenues	<u>\$ 23,782,979.82</u>	<u>\$ 24,058,290.00</u>	<u>\$ 24,010,980.00</u>	<u>\$ (47,310.00)</u>	<u>-0.2%</u>
<u>Operating Expenses</u>					
Sewage Treatment	\$ 21,479,226.44	\$ 21,843,850.00	\$ 21,873,920.00	\$ 30,070.00	0.1%
Sewer System Maintenance	243,957.89	257,690.00	276,010.00	18,320.00	7.1%
Sewer System Engineering	70,948.77	108,350.00	85,670.00	(22,680.00)	-20.9%
Water Purchases	-	-	-	-	
Water Maintenance Unit	-	-	-	-	
Water Systems Engineering	-	-	-	-	
Septage Unloading Facility	-	-	-	-	
Pump Maintenance Unit	20,331.36	14,800.00	16,380.00	1,580.00	10.7%
Systems Control Unit	221,608.73	191,920.00	192,330.00	410.00	0.2%
Plan Review and Permitting	137,212.60	95,460.00	112,810.00	17,350.00	18.2%
Inspection	5,288.63	8,960.00	7,230.00	(1,730.00)	-19.3%
IPP	-	-	-	-	
Laboratory	-	-	-	-	
Mapping Unit	18,533.38	15,090.00	19,300.00	4,210.00	27.9%
Miss Dig	-	2,320.00	1,270.00	(1,050.00)	-45.3%
Billing Services Unit	-	-	-	-	
General and Administrative	1,218,635.61	1,519,850.00	1,426,060.00	(93,790.00)	-6.2%
Total Operating Expenses	<u>23,415,743.41</u>	<u>24,058,290.00</u>	<u>24,010,980.00</u>	<u>(47,310.00)</u>	<u>-0.2%</u>
Net Income	<u>\$ 367,236.41</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	
Depreciation	-	(53,150.00)	-	53,150.00	-100.0%
<u>Reserves</u>					
Non-Operating Revenue	\$ 500,000.13	\$ 500,000.00	\$ 300,000.00	\$ (200,000.00)	-40.0%
Non-Operating Expense	(7,877.99)	-	-	-	
Major Maintenance Reserve Revenue	694,764.81	710,280.00	1,179,000.00	468,720.00	66.0%
Major Maintenance Reserve Expense	(309,149.55)	(1,190,260.00)	(1,376,230.00)	(185,970.00)	15.6%
Emergency Reserve Revenue	99,999.87	100,000.00	100,000.00	-	0.0%
Emergency Reserve Expense	-	-	-	-	
Capital Reserve Revenue	1,360,127.49	1,390,500.00	1,390,500.00	-	0.0%
Capital Reserve Expense	(189,778.43)	(1,060,000.00)	(1,411,440.00)	(351,440.00)	33.2%
Change in Net Assets	<u>\$ 2,515,322.74</u>	<u>\$ 397,370.00</u>	<u>\$ 181,830.00</u>	<u>\$ (215,540.00)</u>	<u>-54.2%</u>
<u>Rate Revenue</u>					
Revenue Requirements:					
Operating Expense	\$ 23,415,743.41	\$ 24,058,290.00	\$ 24,010,980.00	\$ (47,310.00)	-0.2%
Non-Operating	500,000.13	500,000.00	300,000.00	(200,000.00)	-40.0%
Major Maintenance	694,764.81	710,280.00	1,179,000.00	468,720.00	66.0%
Emergency Maintenance	99,999.87	100,000.00	100,000.00	-	0.0%
Capital	1,360,127.49	1,390,500.00	1,390,500.00	-	0.0%
Total Revenue Requirements	<u>\$ 26,070,635.71</u>	<u>\$ 26,759,070.00</u>	<u>\$ 26,980,480.00</u>	<u>\$ 221,410.00</u>	<u>0.8%</u>
Non-Rate Revenue	<u>\$ (294,366.51)</u>	<u>\$ (129,750.00)</u>	<u>\$ (294,720.00)</u>	<u>\$ (164,970.00)</u>	<u>127.1%</u>
Rate Required Revenue	<u>\$ 25,776,269.20</u>	<u>\$ 26,629,320.00</u>	<u>\$ 26,685,760.00</u>	<u>\$ 56,440.00</u>	<u>0.2%</u>

George W. Kuhn Pollution Control
58520
Financial Summary

	2022 Actual	2023 Budget	2024 Forecast	Inc / (Dec)	% Variance
<u>Operating Revenues</u>					
Operating Rate Revenue	\$ 27,640,507.80	\$ 28,124,970.00	\$ 29,437,170.00	\$ 1,312,200.00	4.7%
Operating Non-Rate Revenue	113,567.20	533,030.00	103,960.00	(429,070.00)	-80.5%
Operating Revenues	\$ 27,754,075.00	\$ 28,658,000.00	\$ 29,541,130.00	\$ 883,130.00	3.1%
<u>Operating Expenses</u>					
Sewage Treatment	\$ 24,726,193.97	\$ 24,622,190.00	\$ 25,883,700.00	\$ 1,261,510.00	5.1%
Sewer System Maintenance	311,356.44	322,690.00	326,640.00	3,950.00	1.2%
Sewer System Engineering	498,047.25	768,020.00	627,450.00	(140,570.00)	-18.3%
Water Purchases	-	-	-	-	
Water Maintenance Unit	-	-	-	-	
Water Systems Engineering	-	-	-	-	
Septage Unloading Facility	-	-	-	-	
Pump Maintenance Unit	1,320,837.35	1,643,160.00	1,498,080.00	(145,080.00)	-8.8%
Systems Control Unit	64,020.70	65,140.00	67,230.00	2,090.00	3.2%
Plan Review and Permitting	-	-	-	-	
Inspection	1,040.24	-	350.00	350.00	
IPP	-	-	-	-	
Laboratory	12,258.93	10,880.00	11,480.00	600.00	5.5%
Mapping Unit	1,785.51	1,950.00	1,970.00	20.00	1.0%
Miss Dig	-	-	-	-	
Billing Services Unit	-	-	-	-	
General and Administrative	1,038,076.77	1,223,970.00	1,124,230.00	(99,740.00)	-8.1%
Total Operating Expenses	27,973,617.16	28,658,000.00	29,541,130.00	883,130.00	3.1%
Net Income	\$ (219,542.16)	\$ -	\$ -	\$ -	
Depreciation	-	(66,980.00)	-	66,980.00	-100.0%
<u>Reserves</u>					
Non-Operating Revenue	\$ 9,471.80	\$ -	\$ -	\$ -	
Non-Operating Expense	(539,561.40)	-	-	-	
Major Maintenance Reserve Revenue	311,317.32	318,270.00	700,000.00	381,730.00	119.9%
Major Maintenance Reserve Expense	(233,598.21)	(744,520.00)	(1,218,840.00)	(474,320.00)	63.7%
Emergency Reserve Revenue	50,001.48	50,000.00	50,000.00	-	0.0%
Emergency Reserve Expense	(3,757.10)	-	-	-	
Capital Reserve Revenue	534,428.46	546,360.00	1,000,000.00	453,640.00	83.0%
Capital Reserve Expense	(243,367.85)	(1,135,000.00)	(1,888,320.00)	(753,320.00)	66.4%
Change in Net Assets	\$ (334,607.66)	\$ (1,031,870.00)	\$ (1,357,160.00)	\$ (325,290.00)	31.5%
<u>Rate Revenue</u>					
Revenue Requirements:					
Operating Expense	\$ 27,973,617.16	\$ 28,658,000.00	\$ 29,541,130.00	\$ 883,130.00	3.1%
Non-Operating	9,471.80	-	-	-	
Major Maintenance	311,317.32	318,270.00	700,000.00	381,730.00	119.9%
Emergency Maintenance	50,001.48	50,000.00	50,000.00	-	0.0%
Capital	534,428.46	546,360.00	1,000,000.00	453,640.00	83.0%
Total Revenue Requirements	\$ 28,878,836.22	\$ 29,572,630.00	\$ 31,291,130.00	\$ 1,718,500.00	5.8%
Non-Rate Revenue	\$ (123,039.00)	\$ (533,030.00)	\$ (103,960.00)	\$ 429,070.00	-80.5%
Rate Required Revenue	\$ 28,755,797.22	\$ 29,039,600.00	\$ 31,187,170.00	\$ 2,147,570.00	7.4%

George W. Kuhn Drainage District, Effective July 1, 2023**Monthly Charge Breakdown****SEWAGE CHARGE**

Flat Rate Sewage Charge	Effective July 1, 2023
	<u>Annual Charge</u>
GLWA Purchased Expense	\$ 21,873,920.00
OCWRC Operating Expense	2,137,060.00
Non-Operating	300,000.00
Major Maintenance Reserve	1,000,000.00
Emergency Maintenance Reserve	100,000.00
Capital Improvement Reserve	1,390,500.00
Less: Misc. Revenue	(115,720.00)
Total:	\$ 26,685,760.00

	Effective July 1, 2023	Effective July 1, 2023
	<u>Annual Charge</u>	<u>Monthly Charge</u>
City of Berkley	\$ 1,090,113	\$ 90,842.76
Village of Beverly Hills	72,318	6,026.49
City of Birmingham	807,512	67,292.68
City of Clawson	821,921	68,493.42
City of Ferndale	1,520,288	126,690.67
City of Hazel Park	1,074,102	89,508.51
City of Huntington Woods	501,426	41,785.49
City of Madison Heights	2,579,980	214,998.34
City of Oak Park	2,046,264	170,521.99
City of Pleasant Ridge	234,834	19,569.49
City of Royal Oak	5,123,399	426,949.92
Royal Oak Twp	235,101	19,591.75
City of Southfield	1,721,498	143,458.15
City of Troy	8,530,904	710,908.67
Detroit Zoological Park	292,476	24,373.00
County of Oakland	-	-
Rackham Golf Course	33,624	2,802.00
State Of Michigan	-	-
Total	\$ 26,685,760	\$ 2,223,813.33

George W. Kuhn Drainage District, Effective July 1, 2023

Monthly Charge Breakdown

STORM CHARGE

Flat Rate Storm Charge	Effective July 1, 2023 Annual Charge
GLWA Purchased Expense	\$ 25,883,700.00
OCWRC Operating Expense	3,657,430.00
Non-Operating	-
Major Maintenance	700,000.00
Emergency Maintenance	50,000.00
Capital Improvement	1,000,000.00
Less: Interest Income	(103,960.00)
Total:	\$ 31,187,170.00

	Effective July, 1 2023 Annual Charge	Effective July 1, 2023 Monthly Charge
City of Berkley	\$ 2,023,892	\$ 168,657.67
Village of Beverly Hills	261,005	21,750.42
City of Birmingham	1,523,088	126,924.00
City of Clawson	1,848,214	154,017.84
City of Ferndale	3,208,692	267,391.00
City of Hazel Park	703,396	58,616.34
City of Huntington Woods	769,418	64,118.17
City of Madison Heights	2,039,953	169,996.07
City of Oak Park	4,253,400	354,450.00
City of Pleasant Ridge	417,597	34,799.74
City of Royal Oak	9,263,462	771,955.16
Royal Oak Twp	398,417	33,201.41
City of Southfield	2,406,277	200,523.08
City of Troy	773,410	64,450.82
Detroit Zoological Park	104,914	8,742.83
County of Oakland	476,353	39,696.08
Rackham Golf Course	59,660	4,971.67
State Of Michigan	656,022	54,668.51
Total	\$ 31,187,170	\$ 2,598,930.81

George W. Kuhn Drainage District, Effective July 1, 2023

Share & Monthly Charge Comparison

SEWAGE CHARGE

	FY 2022-23 (July - June)		FY 2023-24 (July - June)		% Change Mthly Charge
	Share % of System	Monthly Charge	Share % of System	Monthly Charge	
City of Berkley	4.128%	\$ 91,604.74	4.085%	\$ 90,842.76	-0.8%
Village of Beverly Hills	0.274%	6,080.34	0.271%	6,026.49	-0.9%
City of Birmingham	3.061%	67,926.92	3.026%	67,292.68	-0.9%
City of Clawson	3.036%	67,372.17	3.080%	68,493.42	1.7%
City of Ferndale	5.650%	125,379.76	5.697%	126,690.67	1.0%
City of Hazel Park	4.077%	90,473.17	4.025%	89,508.51	-1.1%
City of Huntington Woods	1.890%	41,941.17	1.879%	41,785.49	-0.4%
City of Madison Heights	9.236%	204,957.00	9.668%	214,998.34	4.9%
City of Oak Park	7.638%	169,495.58	7.668%	170,521.99	0.6%
City of Pleasant Ridge	0.888%	19,705.67	0.880%	19,569.49	-0.7%
City of Royal Oak	18.886%	419,101.25	19.199%	426,949.92	1.9%
Royal Oak Twp	0.908%	20,149.51	0.881%	19,591.75	-2.8%
City of Southfield	6.494%	144,109.09	6.451%	143,458.15	-0.5%
City of Troy	32.596%	723,340.99	31.968%	710,908.67	-1.7%
Detroit Zoological Park	1.097%	24,343.67	1.096%	24,373.00	0.1%
County of Oakland	-	-	-	-	-
Rackham Golf Course	0.141%	3,129.01	0.126%	2,802.00	-10.5%
State Of Michigan	-	-	-	-	-
Total	100.00%	\$ 2,219,110.04	100.00%	\$ 2,223,813.33	0.2%

Charges have been rounded

George W. Kuhn Drainage District, Effective July 1, 2023

Share & Monthly Charge Comparison

STORM CHARGE

	FY 2022-23 (July - June)		FY 2023-24 (July - June)		% Change Mthly Charge
	Share % of System	Monthly Charge	Share % of System	Monthly Charge	
City of Berkley	6.4895%	\$ 157,043.76	6.4895%	\$ 168,657.67	7.4%
Village of Beverly Hills	0.8369%	20,252.75	0.8369%	21,750.42	7.4%
City of Birmingham	4.8837%	118,183.92	4.8837%	126,924.00	7.4%
City of Clawson	5.9262%	143,412.01	5.9262%	154,017.84	7.4%
City of Ferndale	10.2885%	248,978.25	10.2885%	267,391.00	7.4%
City of Hazel Park	2.2554%	54,580.01	2.2554%	58,616.34	7.4%
City of Huntington Woods	2.4671%	59,702.92	2.4671%	64,118.17	7.4%
City of Madison Heights	6.5410%	158,289.99	6.5410%	169,996.07	7.4%
City of Oak Park	13.6383%	330,042.33	13.6383%	354,450.00	7.4%
City of Pleasant Ridge	1.3390%	32,403.42	1.3390%	34,799.74	7.4%
City of Royal Oak	29.7028%	718,797.84	29.7028%	771,955.16	7.4%
Royal Oak Twp	1.2775%	30,915.17	1.2775%	33,201.41	7.4%
City of Southfield	7.7156%	186,714.92	7.7156%	200,523.08	7.4%
City of Troy	2.4799%	60,012.74	2.4799%	64,450.82	7.4%
Detroit Zoological Park	0.3364%	8,140.76	0.3364%	8,742.83	7.4%
County of Oakland	1.5274%	36,962.51	1.5274%	39,696.08	7.4%
Rackham Golf Course	0.1913%	4,629.34	0.1913%	4,971.67	7.4%
State Of Michigan	2.1035%	50,904.09	2.1035%	54,668.51	7.4%
Total	100.00%	\$ 2,419,966.73	100.00%	\$ 2,598,930.81	7.4%

Charges have been rounded

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER
GEORGE W. KUHN DRAINAGE DISTRICT
SCHEDULE OF RATES AND CHARGES, EFFECTIVE JULY 1, 2023**

1. Sewage Disposal Charge

<u>Municipality</u>	Effective July 1, 2023 <u>Monthly</u>
City of Berkley	\$ 90,842.76
Village of Beverly Hills	6,026.49
City of Birmingham	67,292.68
City of Clawson	68,493.42
City of Ferndale	126,690.67
City of Hazel Park	89,508.51
City of Huntington Woods	41,785.49
City of Madison Heights	214,998.34
City of Oak Park	170,521.99
City of Pleasant Ridge	19,569.49
City of Royal Oak	426,949.92
Royal Oak Twp	19,591.75
City of Southfield	143,458.15
City of Troy	710,908.67
Detroit Zoological Park	24,373.00
County of Oakland	-
Rackham Golf Course	2,802.00
State Of Michigan	-
Toal:	<u><u>\$ 2,223,813.33</u></u>

Where communities have individual sewer customers with metered sewage, permitted and approved by the Oakland County Water Resources Commissioner (WRC), then each community shall also report, within ten days following the end of each month, the total metered sewage within the community, in lieu of water consumption.

2. Pollutant Surcharge - APPROVED BY GLWA

A Pollutant Surcharge shall be levied against industrial and commercial customers contributing sewage to the system with concentrations of pollutants exceeding the levels described as follows:

- A. 275 milligrams per liter (mg/l) of Biochemical Oxygen Demand (BOD)
- B. 350 milligrams per liter (mg/l) of Total Suspended Solids (TSS)
- C. 12 milligrams per liter (mg/l) of Phosphorus (P)
- D. 100 milligrams per liter (mg/l) of Fats, Oils & Grease (FOG)

<u>Pollutant</u>	Effective July 1, 2023	
	Total Charge Per lb. of Excess Pollutants	
Biochemical Oxygen Demand (BOD)	\$	0.361
Total Suspended Solids (TSS)		0.496
Phosphorus (PHOS)		6.629
Fats, Oils & Grease (FOG)		0.115

It is assumed that normal residential customers do not contribute sewage with concentration of pollutants exceeding the above levels, therefore, the Pollutant Surcharge shall not apply to residential customers. Further, restaurants shall also be exempt from Pollutant Surcharge per the federal court "Second Interim Order", dated July 10, 1981.

3. Industrial Waste Control Charge - APPROVED BY GLWA

Based on the reported number of water meter sizes for non-residential users of the System, each community shall pay a monthly Industrial Waste Control Charge (IWC) in accordance with the following schedule:

Non-Residential Meter Size in Inches	Effective July 1, 2023	
		<u>\$/Month</u>
5/8	\$	3.64
3/4		5.46
1		9.10
1 1/2		20.02
2		29.12
3		52.78
4		72.80
6		109.20
8		182.00
10		254.80
12		291.20
14		364.00
16		436.80
18		509.60
20		582.40
24		655.20
30		728.00
36		800.80
48		873.60

Non-residential users shall be defined as all users other than those in single family houses, apartment buildings, condominiums, town houses, mobile homes, schools, churches and municipal buildings.

4. **Flat Rate Storm Charge**

<u>Municipality</u>	Effective July 1, 2023
	<u>Monthly</u>
City of Berkley	\$ 168,657.67
Village of Beverly Hills	21,750.42
City of Birmingham	126,924.00
City of Clawson	154,017.84
City of Ferndale	267,391.00
City of Hazel Park	58,616.34
City of Huntington Woods	64,118.17
City of Madison Heights	169,996.07
City of Oak Park	354,450.00
City of Pleasant Ridge	34,799.74
City of Royal Oak	771,955.16
Royal Oak Twp	33,201.41
City of Southfield	200,523.08
City of Troy	64,450.82
Detroit Zoological Park	8,742.83
County of Oakland	39,696.08
Rackham Golf Course	4,971.67
State Of Michigan	54,668.51
Total:	<u><u>\$ 2,598,930.81</u></u>

George W. Kuhn Drainage District
Schedule of Rates and Charges

5. Total Sewer and Storm Water Charge

The following schedule identifies the total of the sewer charge and the storm water charge. The combined amount will be billed monthly to each customer:

Combined Monthly Sewer and Storm Charges

<u>Municipality</u>	Effective July 1, 2023 <u>Monthly</u>
City of Berkley	\$ 259,500.43
Village of Beverly Hills	27,776.91
City of Birmingham	194,216.68
City of Clawson	222,511.26
City of Ferndale	394,081.67
City of Hazel Park	148,124.85
City of Huntington Woods	105,903.66
City of Madison Heights	384,994.41
City of Oak Park	524,971.99
City of Pleasant Ridge	54,369.23
City of Royal Oak	1,198,905.08
Royal Oak Twp	52,793.16
City of Southfield	343,981.23
City of Troy	775,359.49
Detroit Zoological Park	33,115.83
County of Oakland	39,696.08
Rackham Golf Course	7,773.67
State Of Michigan	54,668.51
Total:	<u><u>\$ 4,822,744.14</u></u>

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**
MEMORANDUM

TO: Jim Nash, Chairman
George W. Kuhn Drain Drainage Board

FROM: Lesli Maes, Operations Engineer

SUBJECT: GWK Major Maintenance and Capital Improvement Projects for Approval

DATE: April 25, 2023

Recommendations for rehabilitation or replacement of assets within the George W. Kuhn (GWK) Drainage District are continually being identified, evaluated and planned for by WRC staff including the asset management group, staff engineers and operations supervisors.

Below are major maintenance and capital improvement projects for the GWK Retention Treatment Basin Facility that are proposed to be initiated at this time.

Major Maintenance Projects	Project Budget
GWK RTB Facility Evaluate Fiber Optic Cable System	\$ 15,000
GWK Dewatering PS Rebuild Pump P1	\$ 30,000
GWK Treatment Building Rehab and Relocate Flushing Isolation Valve	\$ 50,000
GWK Treatment Building Rehab Bar Screens S-1 through S-4	\$ 350,000
GWK Treatment Building Reline Chlorine Tanks No. 4 & 8	\$ 65,000
GWK Treatment Building Repair High Flow Header Piping	\$ 50,000
GWK North Gate Electrical Feed	\$ 50,000
Major Maintenance Subtotal:	\$ 610,000

Capital Improvement Projects	Project Budget
Stephenson Garage Replace Roof	\$ 40,000
Stephenson Control Building Electrical Upgrades	\$ 100,000
GWK Treatment Building On-Site Chlorine Generation Feasibility Study	\$ 50,000
GWK Treatment Building Replace 2 Backflow Preventers	\$ 10,000
GWK Dewatering Pumps Replace VFDs 1-6 (2023-2024)	\$ 360,000
Dequindre PS Replace 16" Supply and Bypass Valve	\$ 48,000
Eight Mile Chamber Replace Electrical Service Equipment	\$ 45,000
Capital Improvement Subtotal:	\$ 653,000

This work was anticipated and budgeted for in the GWK Reserves.

Board Action Requested:

Approve the GWK Retention Treatment Basin projects listed above using funds from the Major Maintenance and Capital Improvement reserves.

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairman
George W. Kuhn Drain Drainage Board

FROM: Stephanie Petriello, Environmental Planner

SUBJECT: GWK Parking Lot Green Infrastructure Grant Acceptance

DATE: April 25, 2023

A project to repair the existing GWK Retention Treatment Facility parking lot was originally budgeted for and approved at the April 27, 2021 Drain Board meeting with the anticipated costs of \$50,000. After several concept design updates, Hubbell, Roth & Clark, Inc. (HRC) provided a proposal to develop plans, specifications, permit applications, and bidding assistance for \$65,000 that was approved at the December 13, 2022 Drain Board meeting.

The GWK parking lot project will expand and redesign the layout of the existing lot, but it will also include several green infrastructure features such as a bioretention area, shade trees, and four (4) acres of turf grass conversion into native prairie grow zones. While these features are environmentally significant and important to feature in the community, they do increase the cost of the project. To help offset some of these additional costs, the Oakland County Water Resources Commissioner's Office (WRC) submitted a grant application to the Southeast Michigan Council of Governments (SEMCOG) for an opportunity to supplement funding for the green infrastructure features included in the GWK parking lot project.

In March, SEMCOG's Regional Review Committee selected to award WRC a total of \$95,000 in EPA Great Lakes Restoration Initiative funding.

Board Action Requested:

Authorize the Chairman to accept and administer the SEMCOG grant funding on behalf of the GWK Drain Drainage District for \$95,000.

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the GEORGE W. KUHN DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

for Shawn Phelps

DATE: April 25, 2023

SUBJECT: Request for Board approval of payment of the following invoices:

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Orchard Hiltz & McCliment Inc	TBP	Invoice # 58712 - Professional Services - 12/31/22	\$ 1,755.83
Orchard Hiltz & McCliment Inc	TBP	Invoice # 58713 - Professional Services - 12/31/22	2,250.00
Orchard Hiltz & McCliment Inc	TBP	Invoice # 61484 - Professional Services - 03/25/23	980.83
		Total	\$ 4,986.66
Center for Watershed Protection Inc	TBP	Invoice # W-22-37 #2 - Contracted Services - 03/01/23 - 03/31/23	\$ 4,000.00
		Subtotal Project # 1-7235	\$ 4,000.00
ICS Integration Services LLC	TBP	Invoice # 2692 - Contracted Services	\$ 10,539.05
		Subtotal Project # 1-3408	\$ 10,539.05
		Total	\$ 19,525.71

8. Joseph Jones Drain

AGENDA

DRAINAGE BOARD FOR THE JOSEPH JONES DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of July 27, 2021
3. Public Comments
4. Present Memorandum from Stephanie Petriello, Environmental Planner, dated April 25, 2023, requesting the Board authorize the Chairman to sign the resolution adopting the final State Revolving Fund project plan
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE JOSEPH JONES DRAIN**

July 27, 2021

A meeting of the Drainage Board for the Joseph Jones Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 27th day of July, 2021.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held June 25, 2019 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$16,600 for the Joseph Jones Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$16,600 as presented.

ADOPTED: Yeas - 2
Nays - 0

A request for reimbursement of the Drain Revolving Fund in the amount of \$384.82 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the reimbursement of the Drain Revolving Fund in the amount of \$384.82.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.

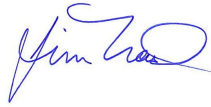
A handwritten signature in blue ink, appearing to read "Jim Nash", is positioned above a horizontal line.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Joseph Jones Drain, Oakland County, Michigan, held on the 27th day of July, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Joseph Jones Drain.



Jim Nash, Chairperson

Dated: July 27, 2021

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

TO: Jim Nash, Chairman
Joseph Jones Drain Drainage Board

FROM: Stephanie Petriello, Environmental Planner

SUBJECT: Clean Water State Revolving Fund Resolution to Adopt a Final Project Plan

DATE: April 25, 2023

With a goal to address nonpoint source pollution control and stormwater treatment throughout the County, WRC hired Hubbell, Roth, and Clark, Inc. (HRC) in 2022 to develop a project plan in accordance with the Clean Water State Revolving Fund (CWSRF) guidance. The plan has been updated to include two (2) new projects within the Joseph Jones Drainage District so that it now identifies fifteen (15) total nonpoint source projects across the County and within multiple drainage districts.

The FY 2024 CWSRF project plan has been advertised and publicly available on the WRC website. This Drainage Board meeting and corresponding presentation will act as the public meeting for these two (2) new projects. Public comments will be accepted until Friday, April 28, 2023.

To be eligible for the State Revolving Fund loan, a resolution that adopts the final project plan must be passed by each participating entity. Neither the project plan nor the resolution commits the Drainage Board to implement the project(s) or administer the loan(s).

Board Action Requested:

Authorize the Chairman to sign the resolution adopting the final SRF project plan.

2024 Nonpoint Source

Clean Water State Revolving Fund (CWSRF) Project Plan



CWSRF Loan Nonpoint Source Program Overview

- Provides low-interest loans (currently 1.875% for 20 years and 2.125% for 30 years) for planning, designing, and constructing eligible stormwater projects.
- Administered by EGLE Water Infrastructure Finance Division
- To qualify, the Applicant must:
 - ✓ Prepare and submit an EGLE approvable Project Plan
 - ✓ **Provide a Public Meeting and Comment Opportunity for the Plan**
 - ✓ **Pass a Board Resolution adopting the Plan**
- Final EGLE approval and County acceptance of the loan is decided later in the CWSRF Loan Program.

Goal for the Projects

All identified projects aim to address stormwater degradation due to:

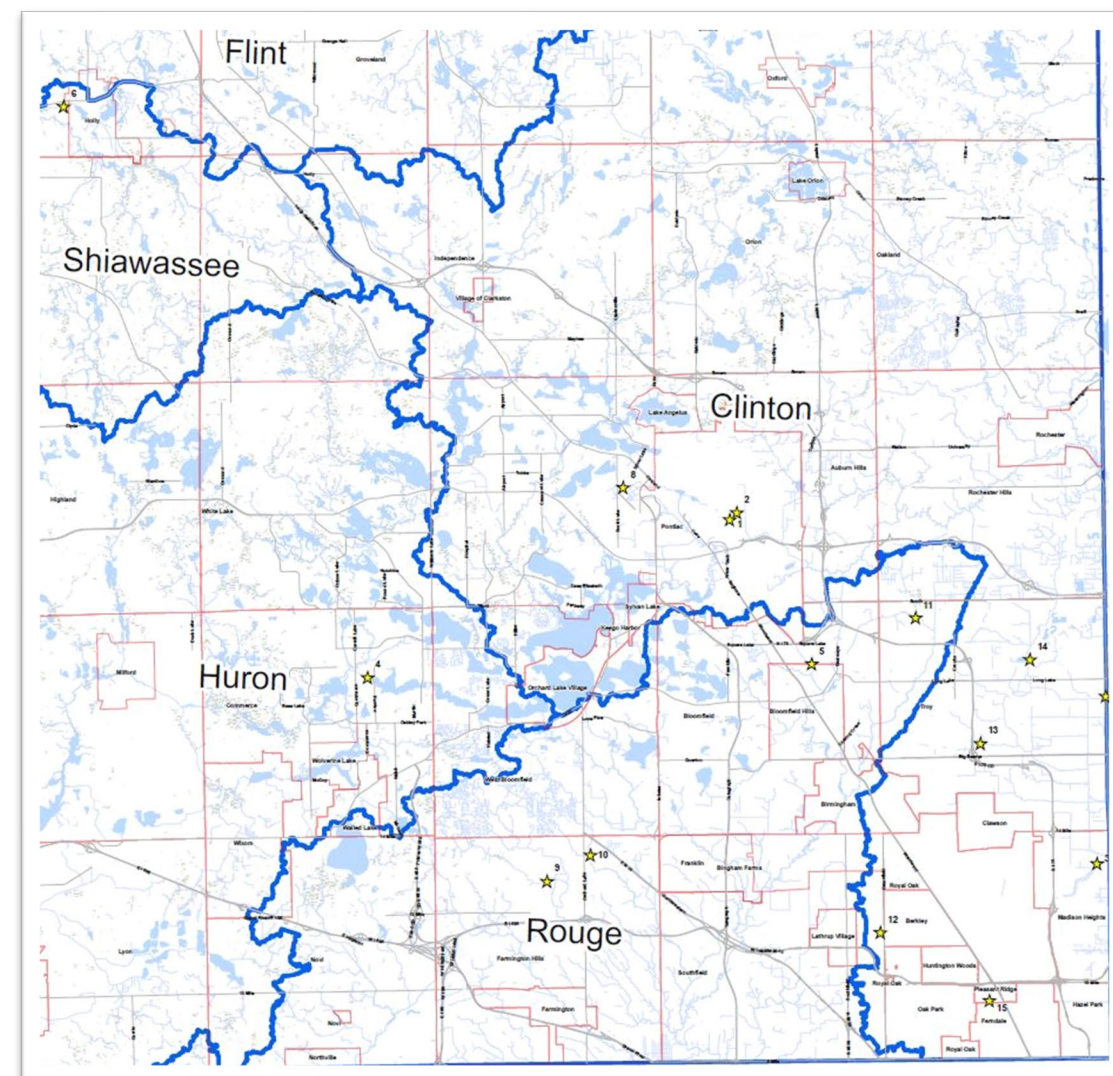
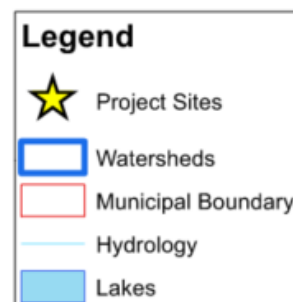
- Volume of runoff and/or
- Nonpoint Source Pollutants
 - Targeted pollutants identified by Total Maximum Daily Loads (TMDL):
 - *E. coli*
 - Total Suspended Solids
 - Phosphorus

This Goal will be achieved through:

- Mitigating and capturing first flush stormwater runoff and pollutants, and larger events if practical
- Implementing Best Management Practices (BMPs) for stormwater management

Project Locations

1	Perry Park
2	Oakland Park
3	Red Oaks Water Park
4	Lower Straits Lake
5	Hamlin Drain
6	Patterson Holly Drain
7	Nelson Drain
8	Pontiac Creek Extension
9	Minnow Pond Drain
10	Pebble Creek Drain
11	Sprague Drain
12	Catalpa Oaks Park
13	Lane Drain Phase II
14	Sylvan Glen Phase III
15	WaterTowns - Pleasant Ridge



Project Plan Alternatives (Selected)

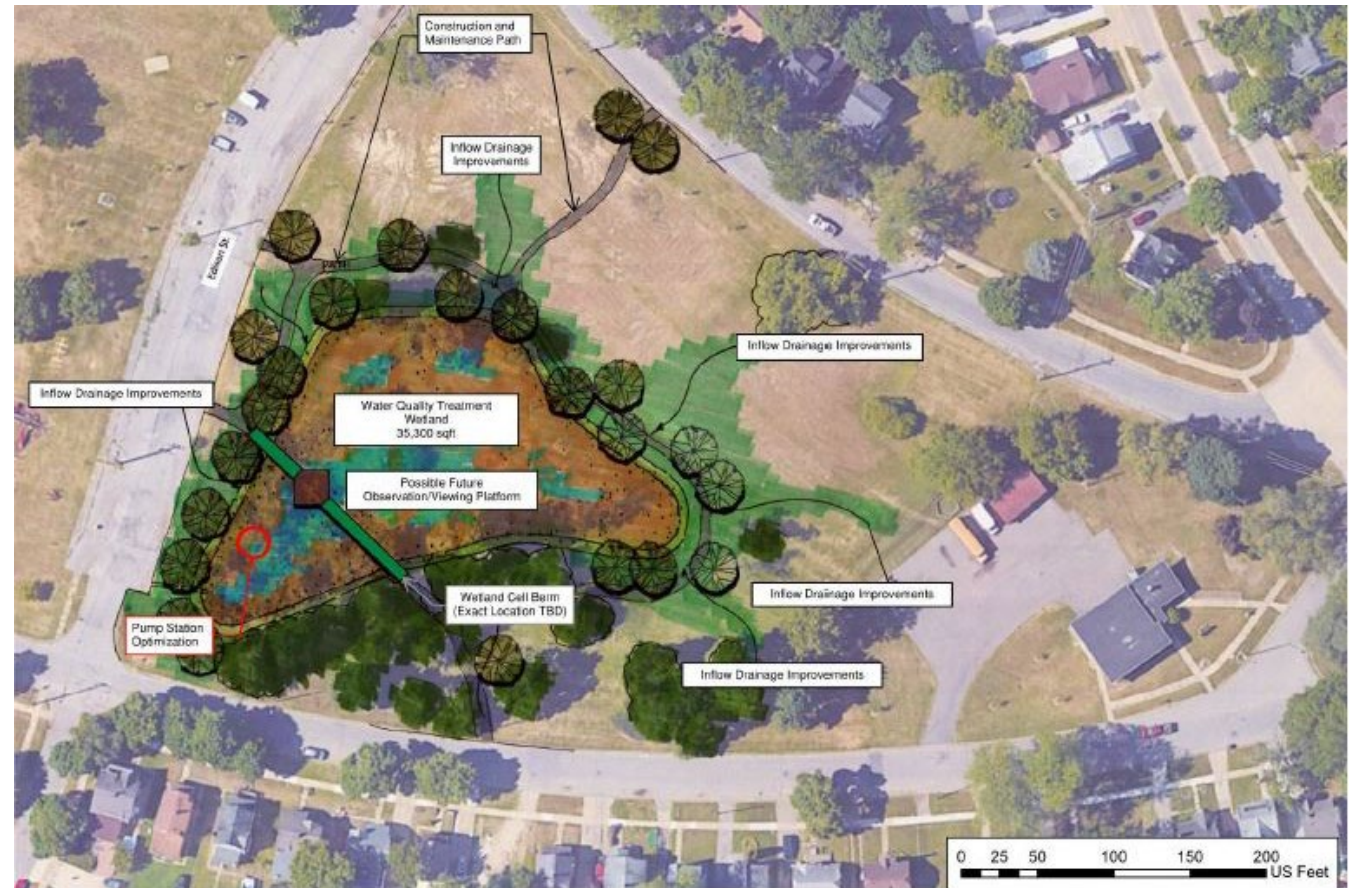
Site		Selected Alternatives		
		Water Quality BMPs	Optimization of Existing Facilities	Streambank Stabilization
1	Perry Park – Green Infrastructure	✓		
2	Oakland Park – Green Infrastructure	✓		
3	Red Oaks Waterpark – Green Infrastructure Improvements	✓		
4	Lower Straits Lake – County Drain Establishment & Restoration		✓	✓
5	Hamlin Drain – Regional Stormwater Detention Facility		✓	
6	Patterson Holly Drain Restoration			✓
7	Nelson Drain – Bank Stabilization & Sediment Trap			✓
8	Pontiac Creek Extension – Wetland & Stream Restoration	✓		✓
9	Minnow Pond Drain – Flood Control Basin Conversion		✓	
10	Pebble Creek Drain Restoration			✓
11	Sprague Drain – Pond & Stream Restoration			✓
12	Catalpa Oaks Park – Green Infrastructure Improvements	✓		
13	Lane Drain Restoration – Phase II			✓
14	Sylvan Glen Habitat Restoration – Phase III			✓
15	WaterTowns – Green Infrastructure Improvements	✓		

2024 New Project

1 – Perry Park (Joseph Jones Drain - Chapter 20)

City of Pontiac

- Convert mowed turf grass to stormwater wetland that infiltrates stormwater
- Reduce nonpoint source pollution from entering the storm drain system
- Eliminate or reduce the need for the pump station
- Collect surface drainage from ~9 acres
- Reduce considerable amount of nitrogen, total phosphorus, and total suspended solids

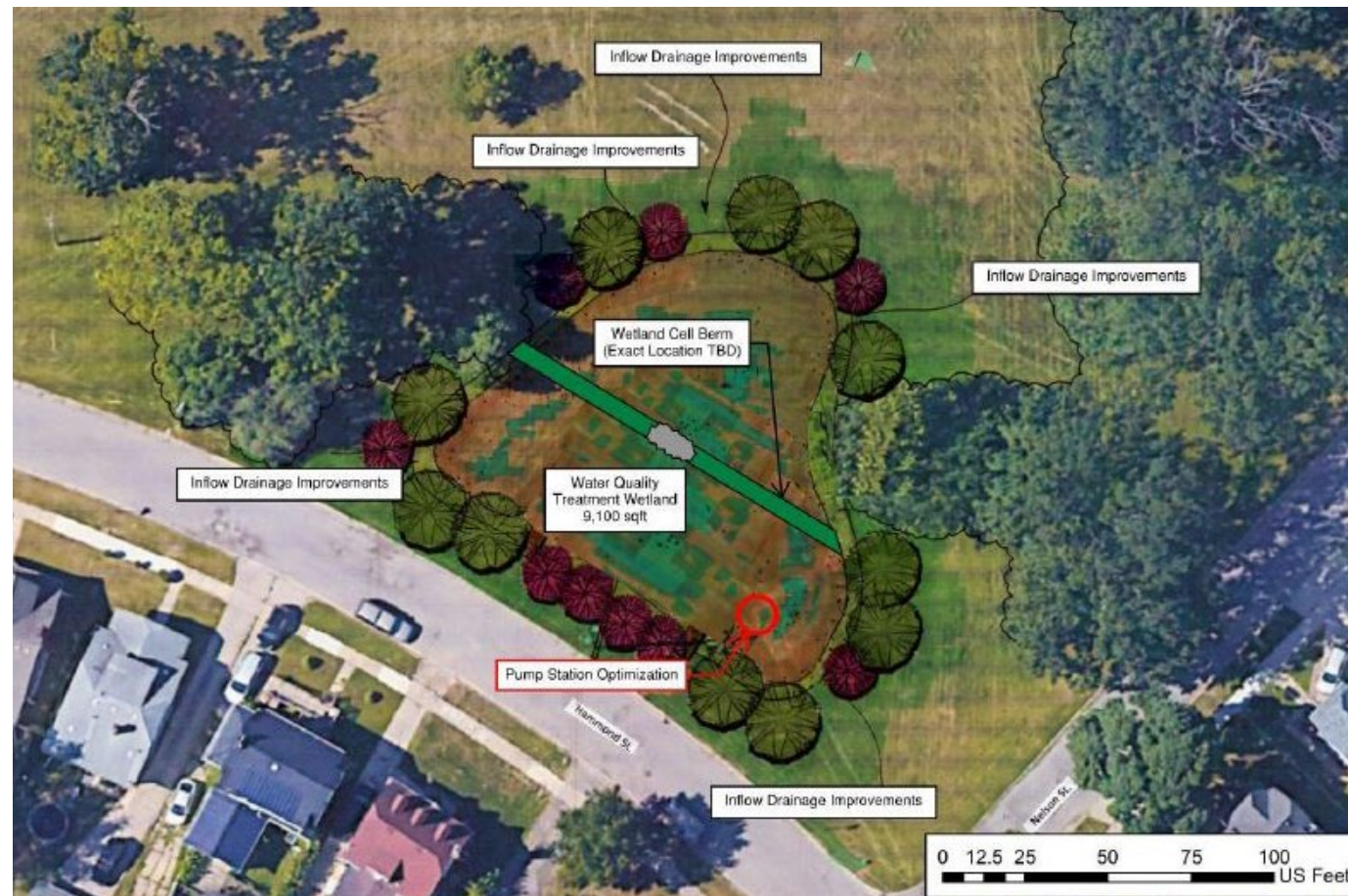


2024 New Project

2 – Oakland Park (Joseph Jones Drain - Chapter 20)

City of Pontiac

- Convert mowed turf grass to stormwater wetland that infiltrates stormwater
- Reduce nonpoint source pollution from entering the storm drain system
- Eliminate or reduce the need for the pump station
- Collect surface drainage from ~5 acres
- Reduce considerable amount of nitrogen, total phosphorus, and total suspended solids



Total Project Costs for Selected Alternatives

SITE	PROPOSED ALTERNATIVE	PRELIMINARY COST
1	Perry Park	\$ 807,900
2	Oakland Park	\$ 528,000
3	Red Oaks Water Park	\$ 269,800
4	Lower Straits Lake	\$ 2,477,700
5	Hamlin Drain	\$ 895,900
6	Patterson Holly Drain	\$ 3,763,600
7	Nelson Drain	\$ 2,502,400
8	Pontiac Creek Extension	\$ 2,206,100
9	Minnow Pond Drain	\$ 2,526,800
10	Pebble Creek Drain	\$ 4,415,700
11	Sprague Drain	\$ 531,500
12	Catalpa Oaks Park	\$ 1,475,100
13	Lane Drain Phase II	\$ 572,100
14	Sylvan Glen Phase III	\$ 991,300
15	Water Towns – Pleasant Ridge	\$ 1,352,800

Estimated User Costs

- Proposed method of financing:
 - CWSRF Loan
 - The total project costs are approximately \$25,339,100 for all 15 projects.
 - Anticipated typical user cost:
 - Varies per project
 - Ranges from \$0.00 to \$300 annually per household
 - Calculated based on households for submittal of the project plan
- Offsets:
 - Costs will be calculated for each Drainage District per Drain Code requirements.
 - Calculation for Communities, Counties, Road Commissions, MDOT, etc. will be included as required and will ultimately lower final costs per households.

Proposed Schedule

Site	Project	Year
1	Perry Park	2024
2	Oakland Park	2024
3	Red Oaks Water Park	2024
4	Lower Straits Lake	2027
5	Hamlin Drain	2027
6	Patterson Holly Drain	2026
7	Nelson Drain	2026
8	Pontiac Creek Extension	2027
9	Minnow Pond Drain	2026
10	Pebble Creek Drain	2025
11	Sprague Drain	2026
12	Catalpa Oaks Park	2025
13	Lane Drain Phase II	2026
14	Sylvan Glen Phase III	2026
15	Water Towns – Pleasant Ridge	2025

Questions/Comments



B. Specific Alternatives Considered

1. Perry Park – Green Infrastructure (Figure III-1)

Perry Park, located in the City of Pontiac, regularly accumulates standing water after rainfall events from the surrounding area, which is lower than the adjacent pavement. Currently at this site, water carrying nonpoint source pollution is pumped into the local storm sewer system, which is at a higher elevation than the park area. These conditions forgo the water quality benefits of the stormwater being retained in an engineered wetland to remove particulate and chemical pollutants before being discharged downstream. This proposed project will include the construction of stormwater wetlands that will reduce nonpoint source pollution in the storm sewer system by collecting stormwater and improve water quality by facilitating infiltration of runoff and vegetative treatment. The only source of water going to the wetlands is overland flow. Berms will be used to separate wetland cells to limit treatment depths and provide maintenance access across the wetlands to improve the accessibility of the park and facilitate public interaction with the water quality BMP. The existing pump stations will be optimized based on final design to extend detention times, provide emergency relief, and/or have variable flows over a wide range of outlet conditions. The new 35,300 sqft wetland will handle surface drainage from approximately 9 acres. The wetland is able to provide the channel protection volume control and channel protection rate control – extended detention. By collecting and treating stormwater in the wetland and allowing it to filter through native vegetation, there will be an approximate reduction in nitrogen (N) by 20%, total phosphorus (TP) by 40%, and total suspended solids (TSS) by 80%. The increase in storage time and volume will increase infiltration and decrease excess peak discharge flows.

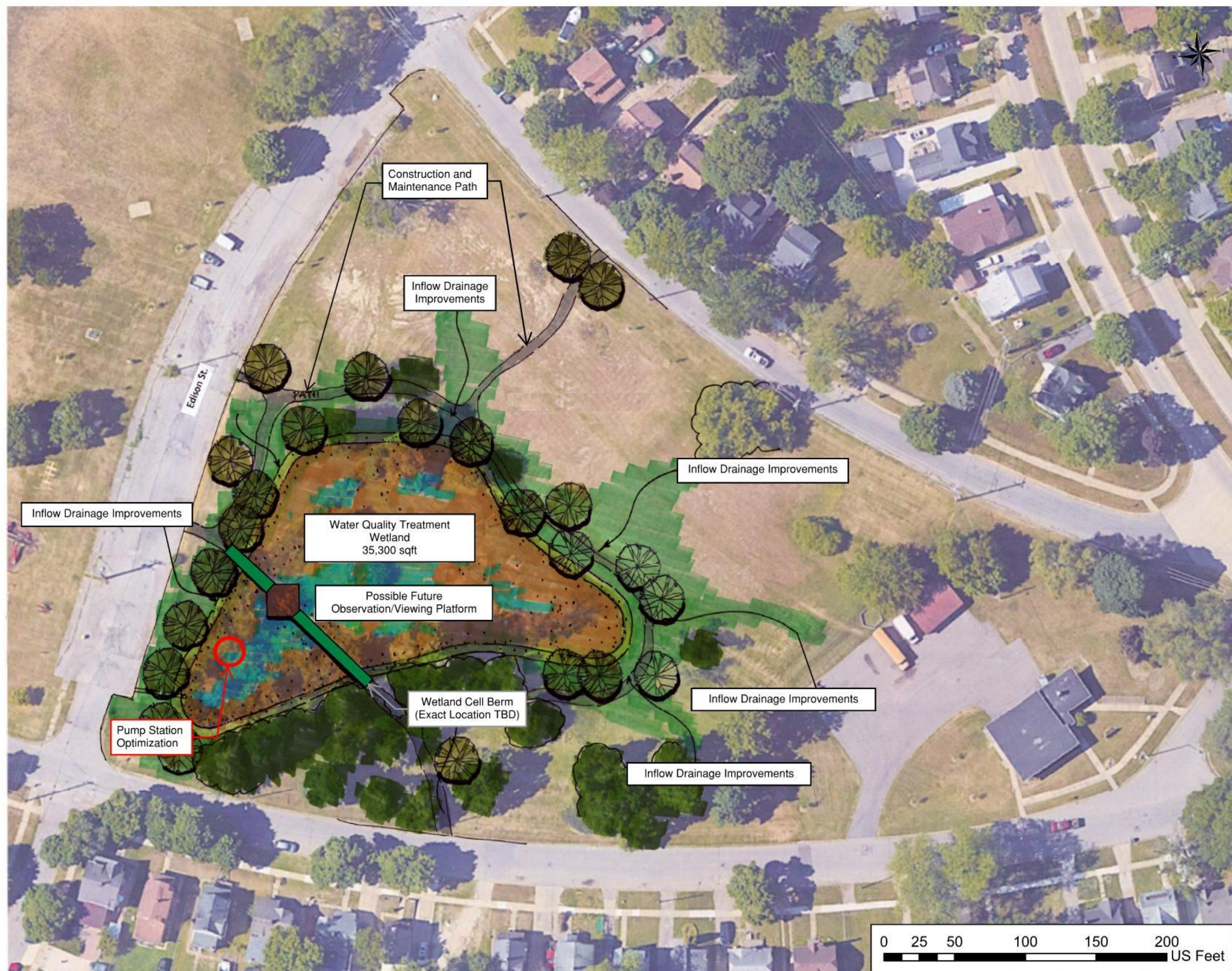
Perry Park falls within the Joseph Jones Drainage District. This is a Chapter 20 Drain that is funded 100% by the City of Pontiac, a significantly overburdened community. The overburdened determination documentation and Joseph Jones Drain Drainage District apportionment roll can be found in Appendix J.

Total Preliminary Costs	\$807,900
Present Worth of Analysis	\$376,000

Direct, Indirect, and Irreversible Impacts

This project will provide stormwater management retrofits and a treatment wetland in Perry Park. The project scope includes new wetlands (bioretention) and native plantings. Project goals include increased infiltration, reduced pollutant and sediment loads, improved climate resiliency, and the reduction of stormwater entering the county drainage infrastructure. Ideally, if existing soils permit adequate infiltration, the existing pump station would only be used as an overflow in the case of extreme rainfall events and the majority of stormwater would be treated locally.

This project does not occur within the floodway. During design, all necessary permits will be secured prior to beginning construction. There is a potential for limited tree removal. Easements may be required, and if they are, they will be secured prior to construction. Adverse impacts on any historic resources or endangered species are not anticipated. There may also be disruptions to traffic or parking on Rundell Street, Edison Street, Nelson Street, and Marquette Street during construction. These disruptions will be temporary and will be communicated through proper signage.



Perry Park
 Retention Concept



PROJECT NO. 1: PERRY PARK – GREEN INFRASTRUCTURE IMPROVEMENTS

ENGINEER'S OPINION OF PROBABLE PROJECT COST				DATE:	3/28/2023
LOCATION: Pontiac, Michigan				PROJECT NO.	20220218
BASIS FOR ESTIMATE: ☒ CONCEPTUAL ☐ PRELIMINARY ☐ FINAL				ESTIMATOR:	NM
WORK: Green infrastructure installation				CHECKED BY:	RJK
	Description	Quantity	Unit	Unit Price	Total Cost
1	Mobilization (10%)	1	Lsum	\$ 45,000.00	\$ 45,000.00
2	Clearing and Grubbing	1	Lsum	\$ 8,000.00	\$ 8,000.00
3	Traffic Control	1	Lsum	\$ 2,500.00	\$ 2,500.00
4	Erosion Control	1	Lsum	\$ 2,000.00	\$ 2,000.00
5	Earthwork	6,000	Cyd	\$ 30.00	\$ 180,000.00
6	Trees	24	Ea	\$ 600.00	\$ 14,400.00
7	Shrubs plantings	100	Ea	\$ 50.00	\$ 5,000.00
8	Turf - Restoration	2	Ac	\$ 3,500.00	\$ 7,000.00
9	Native Wetland Basin Planting Mix	1	Ac	\$ 12,000.00	\$ 12,000.00
10	Topsoil/Compost	400	Cyd	\$ 30.00	\$ 12,000.00
11	Stone Construction Access and Maintenance Path	10,000	Sft	\$ 4.00	\$ 40,000.00
12	Wetland Cell Berms and Overflows	400	Lft	\$ 60.00	\$ 24,000.00
13	Permanent Signage	1	Ea	\$ 2,000.00	\$ 2,000.00
14	Plant Plugs	1,000	Ea	\$ 5.00	\$ 5,000.00
15	Pump Station Optimization	2	Ea	\$ 25,000.00	\$ 50,000.00
16	Misc Drainage Improvements	1	Lsum	\$ 25,000.00	\$ 25,000.00
17	Inflow Drainage Improvements	5	Ea	\$ 8,000.00	\$ 40,000.00
18	Mulch Blankets	5,000	Syd	\$ 5.00	\$ 25,000.00
19	Rip Rap Inlets/Cell Overflows	40	Cyd	\$ 150.00	\$ 6,000.00
Sub Total:					\$ 504,900.00
Contingency - 30%					\$ 151,500.00
Engineering and Administration - 30%					\$ 151,500.00
TOTAL ESTIMATED CONSTRUCTION COST					\$ 807,900.00

2. Oakland Park – Green Infrastructure (Figure III-2)

Oakland Park, located in the City of Pontiac, regularly accumulates standing water after rainfall events from the surrounding area, which is lower than the adjacent pavement. Currently at this site, water carrying nonpoint source is pumped into the local storm sewer system, which is at a higher elevation than the park area. These conditions forgo the water quality benefits of the stormwater being retained in an engineered wetland to remove particulate and chemical pollutants before being discharged downstream. This proposed project will include the construction of a stormwater wetland that will reduce nonpoint source pollution in the storm sewer system by collecting stormwater and improve water quality by facilitating infiltration of runoff and vegetative treatment. The only source of water going to the wetlands is overland flow. Berms will be used to separate wetland cells to limit treatment depths and provide maintenance access across the wetlands to improve the accessibility of the park and facilitate public interaction with the water quality BMP. The existing pump stations will be optimized based on final design to extend detention times, provide emergency relief, and/or have variable flows over a wide range of outlet conditions. The new 9,100 sqft wetlands will handle surface drainage from approximately 5 acres. The wetland is able to provide the channel protection volume control and channel protection rate control – extended detention. By collecting and treating stormwater in the wetland and allowing it to filter through native vegetation, there will be an approximate reduction in nitrogen (N) by 20%, total phosphorus (TP) by 40%, and total suspended solids (TSS) by 80%. The increase in storage time and volume will increase infiltration and decrease excess peak discharge flows.

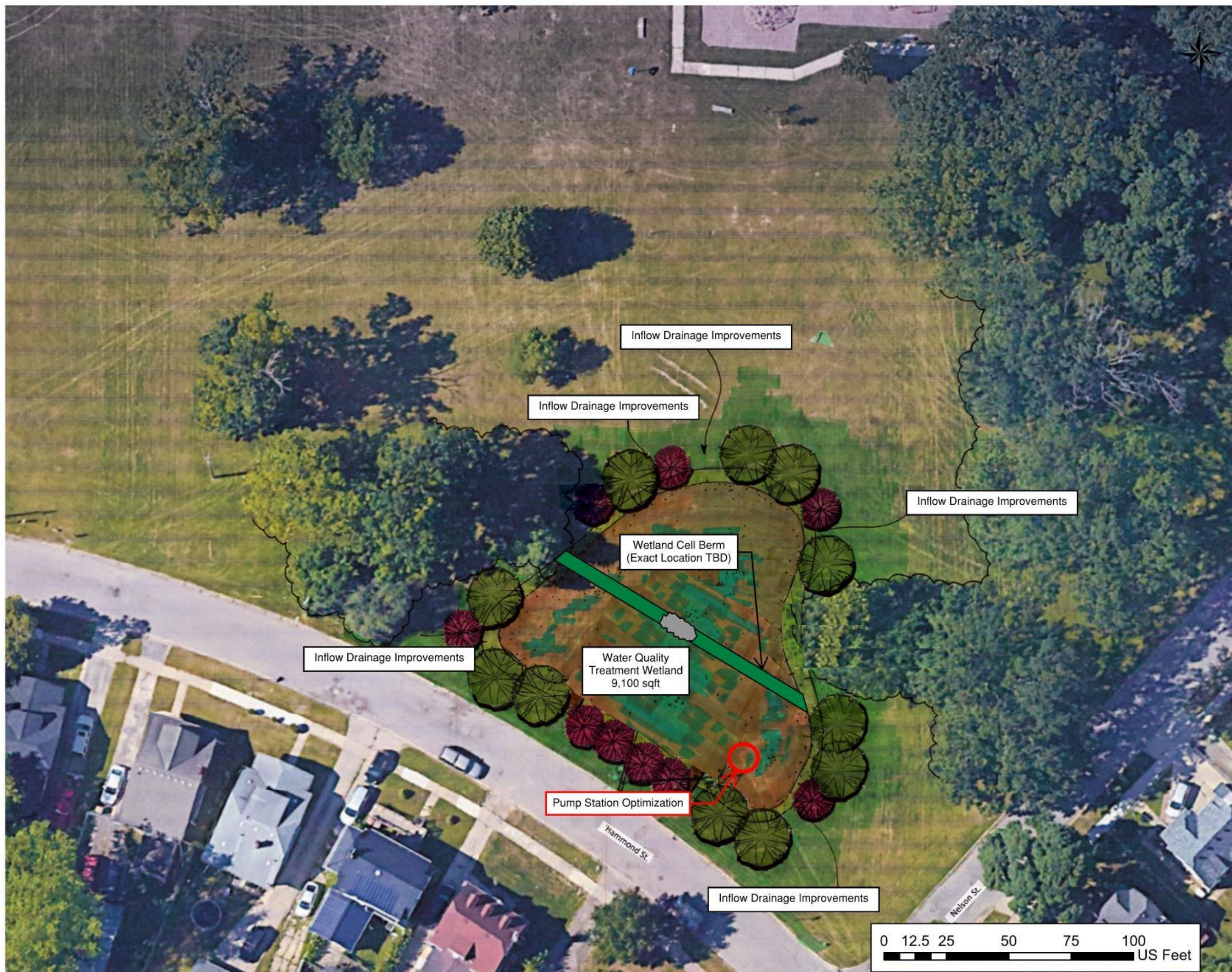
Oakland Park falls within the Joseph Jones Drainage District. This is a Chapter 20 Drain that is funded 100% by the City of Pontiac, a significantly overburdened community. The overburdened determination documentation and Joseph Jones Drain Drainage District apportionment roll can be found in Appendix J.

Total Preliminary Costs	\$528,000
Present Worth of Analysis	\$250,000

Direct, Indirect, and Irreversible Impacts

This project will provide stormwater management retrofits and a treatment wetland in Oakland Park. The project scope includes new wetlands (bioretention) and native plantings. Project goals include increased infiltration, reduced pollutant and sediment loads, improved climate resiliency, and the reduction of stormwater entering the county drainage infrastructure. Ideally, if existing soils permit adequate infiltration, the existing pump station would only be used as an overflow in the case of extreme rainfall events and the majority of stormwater would be treated locally.

This project does not occur within the floodway. During design, all necessary permits will be secured prior to beginning construction. There is a potential for limited tree removal. Easements may be required, and if they are, they will be secured prior to construction. Adverse impacts on any historic resources or endangered species are not anticipated. There may also be disruptions to traffic or parking on E Montcalm Street, Ivy Street, Nelson Street, and Hammond Street during construction. These disruptions will be temporary and will be communicated through proper signage.



Oakland Park
Retention Concept



PROJECT NO. 2: OAKLAND PARK – GREEN INFRASTRUCTURE IMPROVEMENTS

ENGINEER'S OPINION OF PROBABLE PROJECT COST				DATE:	3/28/2023
LOCATION: Pontiac, Michigan				PROJECT NO.	20220218
BASIS FOR ESTIMATE: ☒ CONCEPTUAL ☐ PRELIMINARY ☐ FINAL				ESTIMATOR:	NM
WORK: Green infrastructure installation				CHECKED BY:	RJK
	Description	Quantity	Unit	Unit Price	Total Cost
1	Mobilization (10%)	1	Lsum	\$ 30,000.00	\$ 30,000.00
2	Clearing and Grubbing	1	Lsum	\$ 5,000.00	\$ 5,000.00
3	Traffic Control	1	Lsum	\$ 2,500.00	\$ 2,500.00
4	Erosion Control	1	Lsum	\$ 2,000.00	\$ 2,000.00
5	Earthwork	4,000	Cyd	\$ 35.00	\$ 140,000.00
6	Trees	20	Ea	\$ 600.00	\$ 12,000.00
7	Shrubs plantings	50	Ea	\$ 50.00	\$ 2,500.00
8	Turf - Restoration	1	Ac	\$ 3,500.00	\$ 3,500.00
9	Native Wetland Basin Planting Mix	0.50	Ac	\$ 12,000.00	\$ 6,000.00
10	Topsoil/Compost	100	Cyd	\$ 30.00	\$ 3,000.00
11	Stone Construction Access and Maintenance Path	3,000	sft	\$ 4.00	\$ 12,000.00
12	Wetland Cell Berms and Overflows	200	Lft	\$ 60.00	\$ 12,000.00
13	Permanent Signage	1	Ea	\$ 2,000.00	\$ 2,000.00
14	Plant Plugs	400	Ea	\$ 5.00	\$ 2,000.00
15	Pump Station Optimization	1	Ea	\$ 30,000.00	\$ 30,000.00
16	Misc Drainage Improvements	1	Lsum	\$ 15,000.00	\$ 15,000.00
17	Inflow Drainage Improvements	4	Ea	\$ 8,000.00	\$ 32,000.00
18	Mulch Blankets	3,500	Syd	\$ 5.00	\$ 17,500.00
19	Rip Rap/Cell Overflows	20	Cyd	\$ 50.00	\$ 1,000.00
				Sub Total:	\$ 330,000.00
Contingency - 30%					\$ 99,000.00
Engineering and Administration - 30%					\$ 99,000.00
TOTAL ESTIMATED CONSTRUCTION COST					\$ 528,000.00

**A RESOLUTION ADOPTING A FINAL
PROJECT PLAN FOR WASTEWATER
SYSTEM IMPROVEMENTS
AND DESIGNATING AN AUTHORIZED PROJECT
REPRESENTATIVE**

WHEREAS there is a recognized need to make improvements to the existing Nonpoint Source (NPS) pollution control and/or stormwater treatment system in the Joseph Jones Drain Drainage District, a Michigan statutory public corporation organized pursuant to Chapter 20 of the Drain Code of 1956, as amended; and

WHEREAS the Office of the Oakland County Water Resources Commissioner has authorized Hubbell, Roth and Clark, a consulting engineering firm headquartered in Bloomfield Hills, Michigan to prepare a Project Plan, which recommends the construction of Nonpoint Source projects; and

WHEREAS the attached Project Plan was presented at a Public Hearing held on April 25, 2023, and all public comments have been considered and addressed.

NOW THEREFORE BE IT RESOLVED that the Joseph Jones Drain Drainage Board formally adopts the Project Plan and agrees to implement the selected alternative to meet NPS pollution prevention goals. (Alternative No. 1)

BE IT FURTHER RESOLVED that the Oakland County Water Resources Commissioner is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of the Project Plan as the first step in applying to the State of Michigan for a revolving fund loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

Abstain:

Absent:

I certify that the above Resolution was adopted by the Board of the Joseph Jones Drain Drainage District on April 25, 2023.

BY:

Jim Nash,
Water Resources Commissioner

Date

9. Augusta Drain

AGENDA

DRAINAGE BOARD FOR THE AUGUSTA DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 28, 2023
3. Public Comments
4. Open Public Hearing if Applicable
5. Present proposed resolution adopting the Drainage District's 2023 Clean Water State Revolving Fund Project Plan and designating an authorized project representative
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$26,964.74
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE AUGUSTA DRAIN**

March 28, 2023

A meeting of the Drainage Board for the Augusta Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of March 2023.

The meeting was called to order by the Chairperson.

PRESENT: Anne Vaara, Chairperson, Chief Deputy Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Vaara asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,933.39 (as attached) was presented. It was moved by Markham, supported by Vaara, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,933.39.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Vaara, supported by Markham to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Anne Vaara, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Augusta Drain, Oakland County, Michigan, held on the 28th day of March 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Augusta Drain Drainage District.



Anne Vaara, Chairperson

Dated: March 28, 2023

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the AUGUSTA DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting *JP FOR SHAWN PHELPS*

DATE: April 25, 2023

SUBJECT: Request for Board approval of payment of the following invoices:

<u>Paid To</u>	<u>Reference</u>	<u>For</u>	<u>Amount</u>
Fishbeck	V # SINV00172961	Invoice # 422093 - Engineering Services - 03/17/23	\$ 3,203.75
Hubbell, Roth, & Clark, Inc	V # SINV00174636	Invoice # 0203443 - Contracted Services - 01/07/23	3,014.55
Hubbell, Roth, & Clark, Inc	V # SINV00174651	Invoice # 0203949 - Contracted Services - 02/04/23	8,933.39
Hubbell, Roth, & Clark, Inc	V # SINV00174658	Invoice # 0204763 - Contracted Services - 03/04/23	11,813.05
		Total	<u><u>\$ 26,964.74</u></u>

**A RESOLUTION ADOPTING THE
AUGUSTA DRAIN DRAINAGE DISTRICT'S
2024 CLEAN WATER STATE REVOLVING FUND PROJECT PLAN AND
DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE**

WHEREAS, the Drainage Board for the Augusta Drain Drainage District recognizes the need to make improvements to its existing storm sewer system; and

WHEREAS, the Drainage Board for the Augusta Drain Drainage District authorized Hubbell, Roth & Clark, Inc. to prepare a Clean Water State Revolving Fund Project Plan, which recommends the construction of various improvements to the system; and

WHEREAS, said Project Plan was presented at a Public Meeting held at the offices of the Oakland County Water Resources Commissioner held on April 25, 2023;

NOW THEREFORE BE IT RESOLVED, that the Drainage Board for the Augusta Drain Drainage District formally adopts said Project Plan and agrees to implement the selected alternatives for improvements.

BE IT FURTHER RESOLVED, that the Assistant Chief Engineer, a position currently held by Goeff Wilson, P.E., is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a Clean Water Revolving Fund Loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

Abstain:

Absent:

I certify that the above Resolution was adopted by the Drainage Board for the Augusta Drain Drainage District on Tuesday, April 25, 2023.

BY:

Jim Nash, Oakland County Water Resources Commissioner and Chairperson of the Augusta Drain Drainage District	April 25, 2023 Date
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10. Joachim Relief Drain

AGENDA

DRAINAGE BOARD FOR THE JOACHIM DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of October 25, 2022
3. Public Comments
4. Open Public Hearing if Applicable
5. Present proposed resolution adopting the Drainage District's 2023 Clean Water State Revolving Fund Project Plan and designating an authorized project representative
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE JOACHIM RELIEF DRAIN**

October 25, 2022

A meeting of the Drainage Board for the Joachim Relief Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 25th day of October 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held October 26, 2021, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

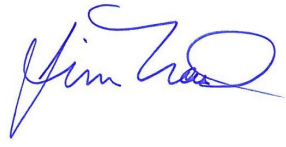
A memorandum from Carrie Cox, Chief Engineer, and Geoff Wilson, Assistant Chief Engineer, dated October 25, 2022, requesting the Board authorize Hubbell, Roth, and Clark to proceed for an amount not-to-exceed \$15,000 to submit a State Revolving Fund Project Plan was presented. It was moved by Markham, supported by Woodward, to Board authorize Hubbell, Roth, and Clark to proceed for an amount not-to-exceed \$15,000 to submit a State Revolving Fund Project Plan as presented.

ADOPTED: Yeas - 3
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.



Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Joachim Relief Drain, Oakland County, Michigan, held on the 25th day of October 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Joachim Relief Drain Drainage District.



Jim Nash, Chairperson

Dated: October 25, 2022

**A RESOLUTION ADOPTING THE
JOACHIM DRAIN DRAINAGE DISTRICT'S
2024 CLEAN WATER STATE REVOLVING FUND PROJECT PLAN AND
DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE**

WHEREAS, the Drainage Board for the Joachim Drain Drainage District recognizes the need to make improvements to its existing storm sewer system; and

WHEREAS, the Drainage Board for the Joachim Drain Drainage District authorized Hubbell, Roth & Clark, Inc. to prepare a Clean Water State Revolving Fund Project Plan, which recommends the construction of various improvements to the system; and

WHEREAS, said Project Plan was presented at a Public Meeting held at the offices of the Oakland County Water Resources Commissioner held on April 25, 2023;

NOW THEREFORE BE IT RESOLVED, that the Drainage Board for the Joachim Drain Drainage District formally adopts said Project Plan and agrees to implement the selected alternatives for improvements.

BE IT FURTHER RESOLVED, that the Assistant Chief Engineer, a position currently held by Geoff Wilson, P.E., is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a Clean Water Revolving Fund Loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

Abstain:

Absent:

I certify that the above Resolution was adopted by the Drainage Board for the Joachim Drain Drainage District on Tuesday, April 25, 2023.

BY:

Jim Nash, Oakland County Water Resources Commissioner and
Chairperson of the Joachim Drain Drainage District

April 25, 2023
Date

11. Pontiac Clinton River #1 Drain

AGENDA

DRAINAGE BOARD FOR THE PONTIAC CLINTON RIVER NO. 1 DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of October 25, 2022
3. Public Comments
4. Open Public Hearing if Applicable
5. Present proposed resolution adopting the Drainage District's 2023 Clean Water State Revolving Fund Project Plan and designating an authorized project representative
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$12,564.96
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE PONTIAC CLINTON RIVER NO. 1 DRAIN**

October 25, 2022

A meeting of the Drainage Board for the Pontiac Clinton River No. 1 Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 25th day of October 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held September 27, 2022, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Carrie Ricker Cox, Chief Engineer, dated October 25, 2022, requesting the Board approve the allocation of \$15,000 to submit a State Revolving Fund Project Plan was presented. It was moved by Markham, supported by Woodward, to approve the allocation of \$15,000 to submit a State Revolving Fund Project Plan as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from Geoff Wilson, P.E., Assistant Chief Engineer, dated October 25, 2022, requesting the Board authorize Fishbeck to proceed with the services outlined on the proposal dated October 18, 2022, for an amount not-to-exceed \$22,500 was presented. It was moved by Markham, supported by Woodward, to authorize Fishbeck to proceed with the services outlined on the proposal dated October 18, 2022, for an amount not-to-exceed \$22,500 as presented.

ADOPTED: Yeas - 3
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

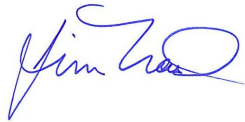


Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Pontiac Clinton River No. 1 Drain, Oakland County, Michigan, held on the 25th day of October 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Pontiac Clinton River No. 1 Drain Drainage District.

A handwritten signature in blue ink, appearing to read "Jim Nash", is written over a horizontal line.

Jim Nash, Chairperson

Dated: October 25, 2022

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the PONTIAC CLINTON RIVER # 1 DRAIN

FROM: Shawn Phleps, Chief of Fiscal Services
OCWRC Accounting

for Shawn Phleps

DATE: April 25, 2023

SUBJECT: Request for Board approval of payment of the following invoices:

Payable to	Ref No.	For	Amount
Fishbeck	V # SINV00172961	Invoice # 422093 - Engineering Services - 3/17/23	\$ 3,203.75
Hubbell, Roth & Clark, Inc	V # SINV00174645	Invoice # 203444 - Contracted Services - 01/07/23	1,794.00
Hubbell, Roth & Clark, Inc	V # SINV00174665	Invoice # 204764 - Contracted Services - 03/04/23	7,567.21
Total			<u>\$ 12,564.96</u>

**A RESOLUTION ADOPTING THE
PONTIAC CLINTON RELIEF DRAIN NO. 1 DRAINAGE DISTRICT'S
2024 CLEAN WATER STATE REVOLVING FUND PROJECT PLAN AND
DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE**

WHEREAS, the Drainage Board for the Pontiac Clinton Relief Drain No. 1 Drainage District recognizes the need to make improvements to its existing storm sewer system; and

WHEREAS, the Drainage Board for the Pontiac Clinton Relief Drain No. 1 Drainage District authorized Hubbell, Roth & Clark, Inc. to prepare a Clean Water State Revolving Fund Project Plan, which recommends the construction of various improvements to the system; and

WHEREAS, said Project Plan was presented at a Public Meeting held at the offices of the Oakland County Water Resources Commissioner held on April 25, 2023;

NOW THEREFORE BE IT RESOLVED, that the Drainage Board for the Pontiac Clinton Relief Drain No. 1 Drainage District formally adopts said Project Plan and agrees to implement the selected alternatives for improvements.

BE IT FURTHER RESOLVED, that the Assistant Chief Engineer, a position currently held by Geoff Wilson, P.E., is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a Clean Water Revolving Fund Loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

Abstain:

Absent:

I certify that the above Resolution was adopted by the Drainage Board for the Pontiac Clinton Relief Drain No. 1 Drainage District on Tuesday, April 25, 2023.

BY:

Jim Nash, Oakland County Water Resources Commissioner and
Chairperson of the Pontiac Clinton Relief Drain No. 1 Drainage District

April 25, 2023
Date

12. McCulloch Drain

AGENDA

DRAINAGE BOARD FOR THE MCCULLOCH DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present Memorandum from Geoff Wilson, P.E., Chief Engineer, dated April 25, 2023 requesting the Board authorize Fishbeck to revise the engineering services budget from \$52,100 to \$55,397.80
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE MCCULLOCH DRAIN**

January 24, 2023

A meeting of the Drainage Board for the McCulloch Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 24th day of January 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held October 25, 2022, were presented for consideration. It was moved by Woodward, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

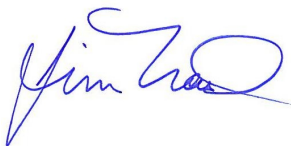
A memorandum from Geoff Wilson, P.E., Assistant Chief Engineer, dated January 24, 2023, requesting the Board receive and file Fishbeck's Engineering Report regarding maintenance recommendations was presented. It was moved by Woodward, supported by Nash to receive and file Fishbeck's Engineering Report regarding maintenance recommendations as presented.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Nash, supported by Woodward, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Woodward.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.

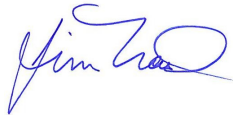


Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the McCulloch Drain, Oakland County, Michigan, held on the 24th day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the McCulloch Drain Drainage District.



Jim Nash, Chairperson

Dated: January 24, 2023

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

TO: Jim Nash, Chairman - McCulloch Drain Drainage Board

FROM: Geoff S. Wilson, P.E. – Chief Engineer

SUBJECT: Budget Revision
Engineering Services – Enclosure Condition Assessment, Hydraulic Analysis,
Maintenance Recommendations, and Future Use Recommendations
McCulloch Drain – Near Big Beaver Road and Rochester Road, Troy

DATE: April 25, 2023

Fishbeck is requesting an amendment to their engineering services budget originally approved by the board in February 2020. The engineering work overran their established budget to study an enclosed portion of the McCulloch Drain and to provide maintenance recommendations. This work is completed and the final report was presented to the board in January 2023. Fishbeck is requesting an additional \$3,297.80, which would revise the total budget from \$52,100 to \$55,397.80 (6.3% increase). Staff is agreeable to the budget increase since the overrun represents work requested by staff to better understand the complicated process required to dewater the junction chamber and inverted syphon portion of the drain.

Recommendation: Authorize Fishbeck to revise the engineering services budget from \$52,100 to \$55,397.80.

April 20, 2023
Project No. 200855

Geoffrey Wilson, PE
Oakland County Water Resources Commissioner
One Public Works Drive, Building 95, West
Waterford, MI 48328

Sturgis Drain Additional Preliminary Design Services – Fee Adjustment

Dear Geoffrey:

As discussed and as requested, Fishbeck is submitting a request to amend the Preliminary Design Services fee due to additional effort associated with responding to the needs of Pipeline Management and assisting Doetsch Environmental Services with limited access issues.

Fishbeck's original fee was \$52,100.00. Our fee for the additional effort is \$3,297.80, for a total of \$55,397.80.

Please let me know if you need additional information or would like to complete the project in its current concept. In the interim, we will make this project inactive until you request additional services.

If you have any questions or require additional information, please contact me at 248.324.4791 or dpotter@fishbeck.com.

Sincerely,



David L. Potter, PE

Vice President/Senior Civil Engineer/Project Manager

By email

13. Claude H. Stevens Drain

AGENDA

DRAINAGE BOARD FOR THE CLAUDE H. STEVENS DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$25,226
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE CLAUDE H. STEVENS DRAIN**

February 25, 2020

A meeting of the Drainage Board for the Claude H. Stevens Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 11:30 a.m. on the 25th day of February, 2020.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Vice Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held June 26, 2018 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$41,155 for the Claude H. Stevens Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$41,155 as presented.

ADOPTED: Yeas - 2
Nays - 0

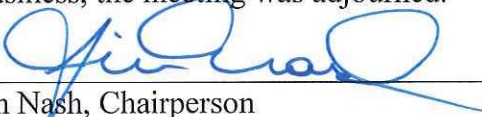
A request for reimbursement of the Drain Revolving Fund in the amount of \$3,539.59 (as attached) was presented. It was moved by Markham, supported by Nash, that the Drain Revolving Fund be reimbursed in the amount of \$3,539.59.

ADOPTED: Yeas - 2
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.



Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Claude H. Stevens Drain, Oakland County, Michigan, held on the 25th day of February, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Claude H. Stevens Drain Drainage District.



Jim Nash, Chairperson

Dated: March 9 , 2020

OAKLAND COUNTY WATER RESOURCES COMMISSIONER
MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE
Claude H. Stevens Relief Drain

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	02/25/20	
Last Assessment:		\$41,155
Current Available Cash:		\$13,774

Expenditure History:	Fiscal Year	Amount
	2016	\$9,148
	2017	\$1,462
	2018	\$12,756
	2019	\$15,096
	2020	\$5,537
	2021	\$2,914
	2022	\$5,678

Estimated Expenditures:	Year	Amount
	2023	\$8,500
	2024	\$8,500
	2025	\$8,500
	Total	\$25,500

Recommended Assessment:

Total Anticipated Expenses 2023 - 2025	\$25,500
Proposed Special Maintenance Expenses	\$5,000
Less Current Available Cash Minus One Year of Maintenance	(\$5,274)

TOTAL RECOMMENDED ASSESSMENT	\$25,226
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Prepared by: Geoff Wilson Date: 4/13/2023
Geoff Wilson, P.E. - Chief Engineer

Approved by: _____ Date: _____
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of February 28, 2023, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE
OF THE CLAUDE H. STEVENS RELIEF DRAIN**

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
Charter Township of Bloomfield	77.9480%	\$ 19,663.16	\$ 19,663.16	-	-
County of Oakland	19.1010%	\$ 4,818.42	\$ 4,818.42	-	-
State of Michigan	2.9510%	\$ 744.42	\$ 744.42	-	-
Total	100.000%	\$ 25,226.00	\$ 25,226.00	\$ -	\$ -

*Apportionment based on Final Order of Apportionment dated 12/20/1971.

Assessment Payment Due Date(s): Payment #1 05/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Claude H. Stevens Relief Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Claude H. Stevens Relief Drain

The foregoing Special Assessment Roll for the maintenance of the Claude H. Stevens Relief Drain was approved by the Drainage Board on _____ .

Jim Nash
Chairman of the Drainage Board for the Claude H. Stevens Relief Drain

14. Daly Drain

AGENDA

DRAINAGE BOARD FOR THE DALY DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of November 17, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,649
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE DALY DRAIN**

November 17, 2020

A meeting of the Drainage Board for the Daly Drain was held at 2:00 p.m. on the 17th of November, 2020. The meeting was conducted electronically via GoToMeeting in accordance with PA 228 of 2020.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

David Woodward, Chairperson of the Oakland County Board of Commissioners, participating from Royal Oak, Michigan.

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Huntington Woods, Michigan.

Minutes of the meeting held November 26, 2019 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

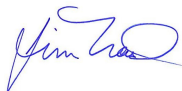
A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$17,970 for the Daly Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$17,970 as presented.

ADOPTED: Yeas - 3
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

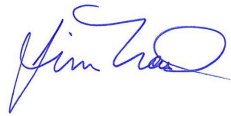


Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Daly Drain, Oakland County, Michigan, held on the 17th day of November, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Daly Drain Drainage District.



Jim Nash, Chairperson

Dated: November 30, 2020

OAKLAND COUNTY WATER RESOURCES COMMISSIONER
MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE
Daly Drain

Assessment for estimated maintenance expenses for fiscal years: 2024 through 2026

Date last assessment approved:	11/17/20	
Last Assessment:		\$17,970
Current Available Cash:		\$9,851

Expenditure History:	Fiscal Year	Amount
	2016	\$1,569
	2017	\$818
	2018	\$9,941
	2019	\$3,806
	2020	\$5,240
	2021	\$2,368
	2022	\$2,824

Estimated Expenditures:	Year	Amount
	2024	\$4,000
	2025	\$4,000
	2026	\$4,000
	Total	\$12,000

Recommended Assessment:

Total Anticipated Expenses 2024 - 2026	\$12,000
Proposed Special Maintenance Expenses	\$2,500
Less Current Available Cash Minus One Year of Maintenance	(\$5,851)
TOTAL RECOMMENDED ASSESSMENT	\$8,649

Prepared by: Geoff Wilson Date: 4/13/2023
Geoff Wilson, P.E. - Chief Engineer

Approved by: _____ Date: _____
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of February 28, 2023, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE
OF THE DALY DRAIN**

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
Charter Township of Bloomfield	66.090%	\$ 5,716.12	\$ 5,716.12	-	-
City of Pontiac	18.880%	\$ 1,632.93	\$ 1,632.93	-	-
County of Oakland	6.890%	\$ 595.92	\$ 595.92	-	-
State of Michigan	8.140%	\$ 704.03	\$ 704.03	-	-
Total	100.000%	\$ 8,649.00	\$ 8,649.00	\$ -	\$ -

*Apportionment based on Final Order of Apportionment dated 3/27/2018.

Assessment Payment Due Date(s): Payment #1 05/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Daly Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Daly Drain

The foregoing Special Assessment Roll for the maintenance of the Daly Drain was approved by the Drainage Board on _____ .

Jim Nash
Chairman of the Drainage Board for the Daly Drain

15. Schmid Drain

AGENDA

DRAINAGE BOARD FOR THE SCHMID DRAIN

April 25, 2023

1. Call meeting to order
2. Approve minutes of meeting of August 23, 2022
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$29,955
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE SCHMID DRAIN**

August 23, 2022

A meeting of the Drainage Board for the Schmid Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 23rd day of August 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held March 22, 2022, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

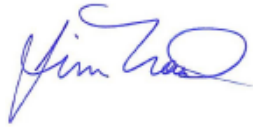
A memorandum from Geoff Wilson, P.E., Assistant Chief Engineer, and Drew Sandahl, P.E., Chief Engineer, dated August 23, 2022, requesting the Board to authorize Kennedy Industries to proceed with the pump repairs for a not to exceed amount of \$30,000 was presented. It was moved by Markham, supported by Woodward, to authorize Kennedy Industries to proceed with the pump repairs for a not to exceed amount of \$30,000 as presented.

ADOPTED: Yeas - 3
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

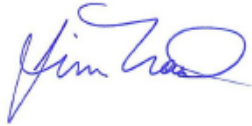
A handwritten signature in blue ink, appearing to read "Jim Nash", is positioned above a horizontal line.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Schmid Drain, Oakland County, Michigan, held on the 23rd day of August 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for Schmid Drain Drainage District.



Jim Nash, Chairperson

Dated: August 23, 2022

OAKLAND COUNTY WATER RESOURCES COMMISSIONER
MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE
Schmid Drain

Assessment for the Schmid Drain S. PS Repair Project

Date last assessment approved:	03/22/22	
Last Assessment:		\$177,719
Current Available Cash:		(\$72,555)

Expenditure History:	Fiscal Year	Amount
	2016	\$20,088
	2017	\$4,668
	2018	\$8,308
	2019	\$9,515
	2020	\$6,963
	2021	\$7,372
	2022	\$11,776
	2023 YTD	\$34,224

Recommended Assessment:

Total Anticipated Maintenance Expenses**	\$0
Schmid Drain S. PS Repair Project Expenses	\$29,955

TOTAL RECOMMENDED ASSESSMENT	\$29,955
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**Anticipated Maintenance Expenses for 2022-2026 were previously collected with the 3/22/2022 assessment

Prepared by: Geoff Wilson Date: 4/5/2023
Geoff Wilson, P.E. - Assistant Chief Engineer

Approved by: _____ Date: _____
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of February 28, 2023, Fiscal Services Division Report.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE SCHMID DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Keego Harbor	75.8200%	\$ 22,711.88	\$ 22,711.88	-	-
County of Oakland	24.1800%	\$ 7,243.12	\$ 7,243.12	-	-
Total	100.0000%	\$ 29,955.00	\$ 29,955.00	\$ -	\$ -

*Apportionment based on Final Order of Apportionment dated 3/20/2001.

Assessment Payment Due Date(s): Payment #1 05/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Schmid Drain in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Schmid Drain

The foregoing Special Assessment Roll for the maintenance of the Schmid Drain was approved by the Drainage Board on _____ .

Jim Nash
Chairman of the Drainage Board for the Schmid Drain