

MACOMB INTERCEPTOR DRAIN
MAY 14, 2018
11:00 A.M.
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for May 14, 2018	
3. Approval of Minutes for April 9, 2018	3
4. Public participation	
5. Recommendation to move forward on sale of 34960 Eberlein, Fraser, MI – Tamara Keskeny	6
Motion: To approve the Offer to Purchase the home at 34960 Eberlein, Fraser, MI and authorize the Public Works Commissioner to sign the closing documents	
6. Recommendation to award proposal for Wastewater Master Plan – Vince Astorino	12
Motion: To award the proposal to Fishbeck, Thompson, Carr & Huber (FTC&H) in a not-to-exceed amount of \$1,070,840 for the Master Plan (\$720,866 MIDDD cost and \$349,974 SEMSD cost) and authorize the Macomb County Public Works Commissioner to sign the contract documents	
7. Recommendation to approve Change Order No. 10 – Vince Astorino	27
Motion: To approve Change Order No. 10 from Dan’s Excavating, Inc. (DEI) for extension of Builders’ Risk Insurance, reflecting a \$4,108.36 net increase to the Recovery Shaft Project	
8. Recommendation to approve lawn maintenance – Vince Astorino	29
Motion: To award the quote from Green Meadows Landscape in the amount of \$29,785 for mowing of Public Works’ drain sites, with the MIDDD share of cost at \$9,360	
9. Recommendation to approve 2018/2019 Budget – Brian Baker	32
Motion: To approve 2018/19 Macomb Interceptor Drain Drainage District (MIDDD) Budget pending final adoption of Great Lakes Water Authority (GLWA) Budget	
10. Consideration for approval of invoices (see attached)	51

11. MIDD Financial Report – Bruce Manning

53

12. Old Business

13. New Business

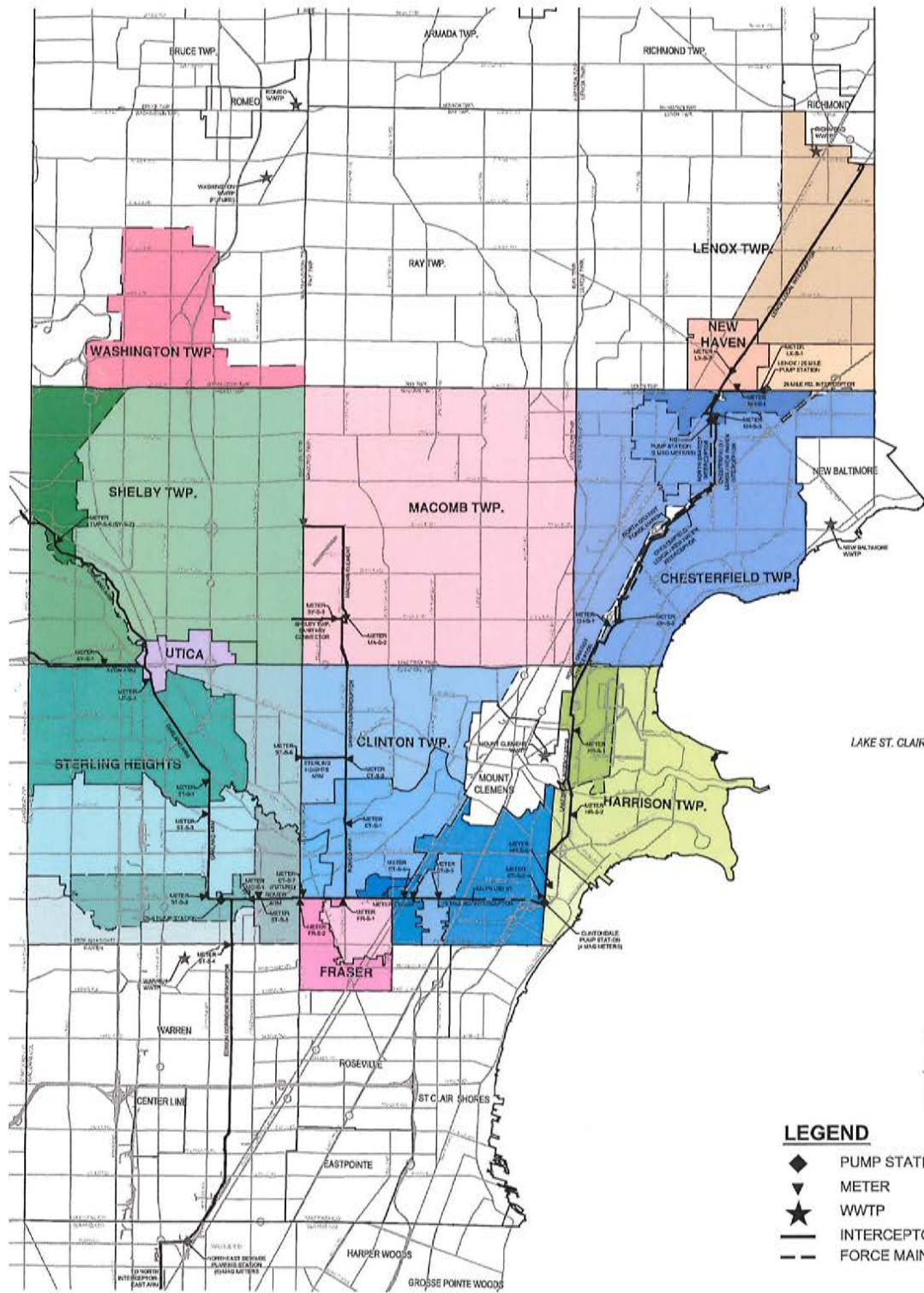
14. Adjourn

Next Regular Meeting

June 11, 2018 at the Office of the Macomb County Public Works Commissioner,
21777 Dunham Road, Clinton Township, Michigan 48036

9242.bd

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



Candice S. Miller

MACOMB COUNTY PUBLIC WORKS COMMISSIONER



UPDATED: FEBRUARY 2017

An adjourned meeting of the Intra-County Drainage District for the **MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan, on April 9, 2018 at 11:49 A.M.

PRESENT: Candice Miller, Chair
Robert Mijac, Member

ABSENT: Bryan Santo, Member

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Vincent Astorino, Operations & Flow Manager, Evans Bantios, P.E., Construction and Maintenance Manager, Jeff Bednar, P.E. Environmental Engineer, Dan Heaton, Public Relations Manager, Bruce Manning, Financial Manager, Barbara Delecke, Administrative Services, Macomb County Public Works; Chris Dilbert, Village of New Haven President

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

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of March 12, 2018 were presented. A motion was made by Mr. Mijac and supported by Ms. Miller to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

The meeting was opened to public participation. Mr. Dilbert, President, Village of New Haven questioned how the bonds are refinanced. There is a North Gratiot Interceptor (NGI) bond that could be refinanced for a lower interest rate once the Village of New Haven completes their audits for the last two years. If the NGI bonds are refinanced, it could save approximately \$400,000, with a savings to the Village of New Haven of \$100,000. Mr. Dilbert will let the Public Works office know when the audits are complete. A resolution will then have to be signed for the refinancing to be done. The Macomb County Public Works Office will set up a meeting with the Village of New Haven officials to discuss the refinancing of the bonds.

Mr. Saph, Nickel & Saph, Inc. introduced himself. His agency has been the agent of record for Macomb County for the last five years. The drainage districts are independent entities that are separate and distinct from the County. Therefore, the County's policy does not extend to the drainage district, board members, volunteers or employees working on the drains. Property, liability coverage, pollution and infrastructure were examined. Mr. Saph presented a proposal that includes both the 8 ½ Mile Relief Drain and the Macomb Interceptor Drain which provides coverage for general liability (bodily and property damage), public officials and automobile liability, as well as underground infrastructure coverage for the MIDD.

A motion was made by Mr. Mijac, supported by Ms. Miller to approve insurance coverage with Argonaut Insurance Company in the amount of \$182,352 for general liability coverage, \$12,000

for the Romeo Arm underground assets and \$1,500 for a TPA fee (third party administrator), which will be apportioned to the Inter-County Drains, 8 ½ Mile Relief Drain and the Macomb Interceptor Drain for a total amount of \$192,204.96.

Adopted: YEAS: 2
NAYS: 0

There are six drop shafts (pipes that connect the local sewers to the main interceptors) that are in need of repair. One shaft is slated to be done this year; the remaining five in 2019.

A motion was made by Mr. Mijac, supported by Ms. Miller to award the engineering proposal for Drop Shaft Rehabilitation to Anderson, Eckstein & Westrick, Inc. (AEW) for \$297,000 and NTH Consultants, Ltd. for \$393,975 for a total cost of \$690,975 and authorize the Macomb County Public Works Commissioner to sign the contract documents.

Adopted: YEAS: 2
NAYS: 0

Three houses were purchased by the Macomb Interceptor Drain Drainage District as a result of the 2017 sinkhole. Two houses were demolished and the third house is now being sold. Kasey Day is the realtor chosen to sell the house with an asking price of \$210,000.

A motion was made by Mr. Mijac, supported by Ms. Miller to approve the Realtor Agreement with Kasey Day and authorize listing for sale of home at 34960 Eberlein, Fraser, MI.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$9,102,555.72 to the board for review and approval.

A motion was made by Ms. Miller, supported by Mr. Mijac to approve the invoices as presented.

Adopted: YEAS: 2
NAYS: 0

A motion to receive and file the financial report given by Mr. Manning was made by Mr. Mijac and supported by Ms. Miller.

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. Mijac, supported by Ms. Miller, that the meeting of the Macomb Interceptor Drain Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

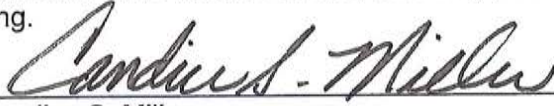
The meeting was adjourned at 12:09 p.m.



Candice S. Miller
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage District shown on the attached set of minutes, on April 9, 2018, the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller
Macomb County Public Works Commissioner

DATED: 4/12/18

9210.bd

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
AGENDA ITEM WORKSHEET

Meeting Date: Monday, May 14, 2017

Name of Project: 15 Mile Interceptor Collapse

Resident Address: 34960 Eberlein, Fraser, MI 48026

Resident Name:

Case Synopsis: This Board previously approved the listing for sale of the above-stated residence at \$210,000.00 through Commissioner Miller's office. Once this home was on the market, it attracted multiple offers to purchase which exceeded the \$210,000.00, the last being \$255,000.00. This offer was reduced to \$245,000.00 after purchaser's home inspection revealed several areas of deferred maintenance and disrepair. These items include basement cracks, moisture in basement, window damage, plumbing issues, cabinet damage, poor grading and drainage, sod and landscaping repair. This offer has been tentatively accepted by Commissioner Miller pending this Board's formal approval.

Recommendation: Approve the enclosed Offer to Purchase and authorize Commissioner Candice Miller or her designee Brian Baker to close the sale of the home for \$245,000.00.



PURCHASE AGREEMENT

MLS# 58031345102

DATE 04/23/18

LISTING BROKER Jason Real Estate Co. Rosevill SELLING BROKER 1st Choice Realty Inc
LISTING AGENT Kasey J. Day SELLING AGENT Basim Naimou
AGENT ID# 5800000026234 OFFICE ID# 5800000000951 AGENT ID# 221122 OFFICE ID# 310497
EMAIL kday@mirealsource.com EMAIL basimpaga@aol.com

- 1. PROPERTY DESCRIPTION: The undersigned Buyer hereby offers and agrees to purchase Property located in Michigan, City/Township/Village of Fraser County of Macomb Tax ID# 1131102011
Legal description WHISPERING PINES SUBDIVISION, LOT 2, L 124 P 29-30 CITY OF FRASER
Also commonly known as 34960 EBERLEIN Zip 48036

Property described above shall include all available sub surface and mineral rights, all fixtures, improvements and appurtenances now in or on Property, including all built-in appliances/equipment, shelving, cabinets, all lighting fixtures, ceiling fans, attached carpeting, all window treatments and hardware, attached mirrors, hard-wired telephone system and instruments designed for the system, television antennae, satellite dishes (if owned) and complete rotor equipment, storm doors, storm windows, screens, awnings, garage door openers and transmitters, water softeners and security systems (if owned), mailboxes, fences, fireplace inserts, doors, screens, gas logs, grates, gas attachments and equipment, attached humidifiers, all landscaping, fuel in tanks, central vacuum and attachments, and

Disposal, Stove, Microwave.

Items specifically excluded in the Listing Agreement or MLS publication must be listed hereafter, or they will be deemed included in the sale:

- 2. PRICE: Buyer agrees to pay the sum of Two Hundred Forty-Five Thousand Dollars (\$255,000.00 245,000) in consideration for which Seller will provide a warranty deed subject to existing building and use restrictions and easements and rights of way of record.

- 3. METHOD OF PAYMENT: All money must be paid in U.S. funds by cashier's check, wired funds, or such other funds acceptable to the closing agent. Sale shall be completed by the following method: (Mark only the box that applies.)

[] A. CASH SALE. Delivery of the Warranty Deed conveying marketable title and payment of the purchase price.

[X] B. CASH SALE WITH NEW MORTGAGE. Agreement contingent upon Buyer securing a CONV mortgage, not contingent upon sale or closing of other assets, in the amount of \$165,000.00 and paying \$80,000.00 down plus mortgage costs, prepaid items, adjustments and flood insurance (if required) by lender. Buyer agrees to apply for such mortgage at buyer's own expense within 5 calendar days from final acceptance of this Agreement. If a mortgage commitment conditioned only upon marketable title and satisfactory survey (if required) is not delivered to Listing Broker within 40 calendar days from date of agreement, the Seller may declare Agreement void. Buyer further agrees that in connection with application to lender, Buyer will promptly comply with lender's requirements and requests for true and accurate information required to process loan application.

[] C. SALE BY LAND CONTRACT/MORTGAGE ASSUMPTION/SELLER FINANCING. (See appropriate land contract financing addendum attached and made a part hereof.)

- 4. EARNEST MONEY DEPOSIT: Buyer is depositing with broker \$5,000.00 in the form of a check, money order, cashier's check or certified funds. An additional sum of \$0.00 shall be deposited within 2 calendar days of acceptance by Seller, making the total earnest money deposit \$5,000.00. Total sums deposited will be deemed the Earnest Money Deposit to be held in accordance with the laws of the State of Michigan and applied to the purchase price at closing. The Earnest Money Deposit shall be disbursed ONLY in accordance with either: (a) the terms hereof; (b) a fully executed mutual release; or (c) until a civil action has determined to whom the deposit must be paid. If offer made is not accepted by Seller, the Earnest Money Deposit shall be returned to Buyer.

5. ACKNOWLEDGEMENT OF EARNEST MONEY DEPOSIT: Received by: TITLE PLUS LLC Company Name
EDWARD ELIA Agent Signature

- 6. CLOSING: Subject to all conditions herein, closing shall take place on or before 06/08/18 at Listing Office or other mutually agreed-upon location. Seller shall pay all state and county transfer taxes and other costs required to convey clear title. Buyer shall not be deemed in default of this Agreement for any delay beyond the agreed upon

AY Buyer(s) Initials

XCSM Seller(s) Initials

closing date due to reasons associated with Truth in Lending and/or federal disclosure requirements related to Buyer's Good Faith Estimate.

7. **POSSESSION:** Seller shall deliver possession to Buyer at closing or by 12:00 Noon _____ days after closing (closing to apply if no choice is made.) If possession is not delivered at closing, from and including day of closing, through date of vacating property, SELLER SHALL PAY the sum of \$ _____ per day. Designated escrow agent shall retain from amount due Seller the sum of 1 1/2 times daily fee, times total days for occupancy. Designated escrow agent shall disburse occupancy fee due Buyer every 30 days, upon written request from Buyer. Seller shall be entitled to any unused portion of occupancy fee as determined by date Property is vacated and keys surrendered to Buyer Listing Broker Selling Broker. Seller is legally obligated to deliver possession as specified herein. If Seller FAILS to deliver possession as specified herein, Seller shall pay TWICE the daily occupancy fee per day and may be liable for cost of eviction, actual attorney fees, damages and other costs incurred by Buyer in obtaining possession and collecting any amount due. Brokers have no obligation, implied or otherwise, as to condition of premises or for seeing that premises are vacated on date specified.
8. **AVAILABILITY OF HOME PROTECTION PLANS:** Buyer and Seller acknowledge having been advised of availability of home protection plans.
9. **SEWER AND WATER CHARGES:** Seller agrees to pay for all sewer and water charges to date of CLOSING POSSESSION (possession will apply if no choice has been made.) Designated escrow agent shall retain from amount due Seller at closing \$300.00, or more if needed for final water and sewer charges. After water and sewer bills are verified paid, any unused portion shall be returned to Seller.
10. **TITLE EVIDENCE AND SURVEY:** Seller agrees to order title insurance upon acceptance of offer and to furnish Buyer a commitment of Title Insurance to be issued without standard exceptions. Buyer to secure and pay for a survey, if required by the title company to remove the standard exceptions. After closing, a Policy of Title Insurance, at seller's sole cost, without standard exceptions will be issued in the amount of purchase price, bearing date of closing or later guaranteeing title in condition required for performance of Agreement. **Title Commitment shall be "marked up" at closing insuring through date of recording.**

Title Insurance has been recommended by the real estate broker(s).

11. **TITLE OBJECTIONS:** If objection to title is made, based upon written notice that title is not in the marketable condition required for performance hereunder, Seller shall have 30 calendar days from date notified in writing of particular defects claimed, to either: (a) remedy title; or (b) obtain title insurance satisfactory to Buyer. Buyer agrees to complete sale within 10 calendar days of written notification that the title has been remedied or by date specified in this Agreement if later. If Seller is unable or unwilling to remedy title within time specified, Buyer will waive requirement in writing within 10 calendar days of written notification thereof, or Agreement may be declared null and void at Buyer's option.
12. **TAXES:** All property taxes due and payable on or before date of closing shall be paid by Seller. Current taxes shall be prorated and adjusted as of date of closing in accordance with due date of municipality or taxing unit(s) in which Property is located. Buyer acknowledges that Property taxes are subject to change. If taxes are not paid in advance, see addendum made a part hereof. Seller shall pay transfer taxes and other costs required to convey title. Buyer shall pay all costs for recording the warranty deed.
13. **ASSESSMENTS:** Seller shall discharge in full all public authority charges confirmed by municipality or taxing unit(s) (special assessments, water, sewer, paving charges, etc.) which are currently due and payable. Buyer is responsible for other assessments including, but not limited to, capital and lateral charges (assessed, but value not yet determined) which are confirmed and become due and payable after closing.
14. **CONDOMINIUM/HOMEOWNERS ASSOCIATION ASSESSMENTS:** Current dues shall be prorated to date of closing. Any delinquent condominium/homeowner association dues/assessments/liens shall be paid by Seller at closing. Any and all dues/assessments/liens confirmed and becoming due and payable after closing will be paid by Buyer. (See Condominium Addendum made a part hereof if applicable)
15. **MAINTENANCE OF PROPERTY:** Seller is responsible for keeping Property in substantially the same condition as of date of Agreement. Seller is responsible to maintain grounds and keep all systems in working order until Property is vacated and keys are surrendered by Seller except for conditions disclosed in Seller's Disclosure Statement or conditions discovered by Buyer as part of inspections. In the event Property has been winterized, it shall be the obligation and expense of Seller to de-winterize Property prior to closing. Seller agrees to leave Property broom-clean and free of debris and personal property.
16. **UTILITIES:** Seller shall order final billings on all utilities (gas, electric, etc.) as of the day of possession and Seller shall pay final billings. Seller shall not direct any utilities to be disconnected. Buyer agrees to inform all utility companies of ownership and to assume and pay all billings from day of taking possession.
17. **RISK OF LOSS:** Seller is responsible for any damage to the Property, except for normal wear and tear until the closing or possession, whichever is later. If there is damage that Seller is unable or unwilling to repair or to arrange and pay to be repaired, Buyer has the option to cancel this Agreement and the Earnest Money Deposit shall be immediately refunded to Buyer or Buyer

MLS # 58031345102

Buyer(s) Initials

Page 2 of 5

Seller(s) Initials

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can proceed with the closing and deduct from the purchase price a fair and reasonable estimate of the cost to repair the Property and assume the responsibility for the repair, thereby releasing Seller.

18. **SELLER'S DISCLOSURE STATEMENT:** (Initial only one).

Buyer(s) Initials

 A With Disclosure: Buyer has, prior to writing this offer, received Seller's Disclosure Statement.

 B Without Disclosure: All Parties understand that Seller's Disclosure Statement was not available at time this offer was written. Seller shall provide Buyer with a Seller's Disclosure Statement with Seller's Acceptance of this offer pursuant to Public Act 92 of 1993.

19. **LEAD-BASED PAINT DISCLOSURE/INSPECTION:** (For residential housing built prior to 1978)

A. Buyer acknowledges that prior to signing this Agreement, Buyer has received and reviewed a copy of the Lead-Based Paint Seller's Disclosure Statement.

B. Buyer shall have a day opportunity after date of Agreement to conduct an inspection of Property for presence of lead-based paint and/or lead-based hazards. (Federal regulations require a 10 day or other mutually agreed upon period of time.) If Buyer is not satisfied with results of this inspection, upon notice of Buyer to Seller within this period, Agreement shall be terminated and Earnest Money Deposit shall be refunded to Buyer.

C. Buyer hereby waives an opportunity to conduct a risk assessment or inspection for presence of lead-based paint and/or lead-based paint hazards.

20. **DEFAULT:**

A. **BUYER:** In the event Buyer fails to fulfill obligations set forth herein or fails to close this transaction in the time and manner provided, Seller may elect to enforce the terms hereof, declare the sale void, and retain Earnest Money Deposit (per paragraph 4) as liquidated damages and/or seek all available legal or equitable remedies.

B. **SELLER:** In the event Seller fails to fulfill obligations set forth herein or fails to close this transaction in the time and manner provided, Buyer may elect to enforce terms herein, declare sale void, be entitled to refund of Earnest Money Deposit (per paragraph 4), and/or seek all available legal or equitable remedies.

21. **FEES:** Buyer agrees to pay closing fees charged by lender and/or title company and a compliance/transaction fee of \$ 295.00 payable to Selling Broker at closing.

22. **TIME LIMIT:** Buyer is making this offer valid until AM PM on or until withdrawn in writing.

23. **ADDITIONAL DOCUMENTS ATTACHED:** The Seller's Disclosure Statement, Lead Based Paint Disclosure, Agency Relationship Disclosure, plus the following checked items are also attached hereto.

- | | | |
|--|--|--|
| <input type="checkbox"/> FHA/VA Addendum | <input type="checkbox"/> Unplatted Land Addendum | <input type="checkbox"/> Contingency Sales Agreement |
| <input type="checkbox"/> Swimming Pool Addendum | <input type="checkbox"/> Private Road Addendum | <input type="checkbox"/> Condominium Addendum |
| <input type="checkbox"/> Additional (General) Conditions | <input type="checkbox"/> Well & Septic Addendum | <input type="checkbox"/> <u> </u> |
| <input type="checkbox"/> Financing Addendum | <input type="checkbox"/> Vacant Land Addendum | <input type="checkbox"/> <u> </u> |

24. **FLOOD INSURANCE:** Buyer may, at his expense, obtain a Floodplain Certification within calendar days from the date of Seller's acceptance of this Agreement. If the Certification discloses that the property is in a Special Flood Hazard Area, Buyer may notify Seller, in writing, within days from the date of the Certification that Buyer declares this Agreement null and void and the deposit shall be returned to the Buyer. Failure to notify Seller that the property is in a Special Flood Hazard Area within this same time period shall constitute a waiver of Buyer's right to terminate the Agreement under this paragraph and Buyer agrees to obtain a policy of flood insurance if required to do so by the mortgage lender.

25. **WELL AND SEPTIC SYSTEM INSPECTION:** See attached addendum made a part hereof, if applicable.

26. **PROPERTY INSPECTION/DUE DILIGENCE CONTINGENCY:** Note: Inspections required by FHA, VA, lenders, or municipalities are not made for, nor should they be relied upon by, Buyer. Broker(s) recommend that Buyer conduct independent private inspection(s) of property at Buyer's expense. Due diligence may include, but is not limited to, any inspection(s) or research deemed necessary by Buyer, including: structural integrity, condition of mechanical systems, environmental status, health or safety conditions, surveys or infestation. To ensure intended use of premises it is recommended that Buyer research: square footage; building and use restrictions; easements; ordinances; regulations; school district; and/or property tax status. If Buyer **DOES NOT** notify Seller, in writing, within 7 calendar days from date of final acceptance of Agreement that Buyer is dissatisfied with results of due diligence, Agreement shall be binding without regard to

Buyer(s) Initials

MLS # 58031345102

Seller(s) Initials

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inspection(s). If Buyer notifies Seller, in writing and within specified time, that, in Buyer's sole judgment, Buyer is dissatisfied with results of due diligence, Buyer shall do one, or a combination, of the following within the contingency period stated above.

- A. Present to Seller an amendment for mutual agreement that cites a list of repairs and/or conditions to be remedied.
- B. Present to Seller an amendment for mutual agreement with a credit to be applied against the purchase price, and/or a price reduction, in full satisfaction of inspection contingency.
- C. Present to Seller a Notice of Dissatisfaction with due diligence which shall render Agreement null and void, in which case Seller agrees to authorize Broker to return all earnest monies to Buyer.
- D. In the event Seller and Buyer are unable to reach an Agreement to Buyer's proposals made under A or B, Buyer shall either elect to proceed with transaction by waiving this contingency in writing, or declare Agreement void by election of C within 3 calendar days of receipt of Seller's written responses to A or B above.

Buyer: Does X Buyer Initials Does Not Buyer Initials desire to have Property Inspection.

- 27. **LIABILITY OF BUYER FOR DAMAGE:** Buyer shall be solely responsible for any and all damage to Property as a result of any and all inspection(s) of Property authorized by or conducted by Buyer. Buyer shall pay for any and all necessary repairs to restore Property to its condition prior to inspection(s) or shall reimburse Seller for actual cost of such restoration.
- 28. **MUNICIPAL INSPECTIONS:** If a municipal inspection and/or certification of premises are required by local ordinance, state or federal law, or Buyer's lending institution, Seller agrees to pay for inspections. Seller agrees to complete any and all repairs required by municipality, provided repairs do not exceed \$. If Seller does not complete all repairs required by municipality, Buyer may assume the additional costs to complete repairs, or Buyer may declare this Agreement void.
- 29. **BUYER ACCEPTANCE OF CONDITION: AS IS CONDITION** – By closing this transaction, Buyer shall be deemed to have accepted the Property in "AS IS" condition and it shall be deemed by closing this transaction that Buyer is satisfied with the condition of the Property.
- 30. **TIME FOR LEGAL ACTION:** Buyer and Seller agree that any legal action against either party or against Broker(s) or their agents related to the condition of the Property or arising out of the provisions of this Agreement or any services rendered or not rendered must be brought within the shorter of (a) the time provided by law, or (b) one (1) year after the Closing, or be forever barred.
- 31. **SHOWINGS:** Seller agrees not to allow the Property to be shown after the inspection contingency is removed or has expired.
- 32. **FOREIGN INVESTMENT IN REAL PROPERTY TAX ACT (FIRPTA):** If the sale price of the Property exceeds \$300,000.00, the parties to this Agreement will be bound by FIRPTA requirements and must complete the addendum for FIRPTA.
- 33. This is a legal and binding document, and both Buyer and Seller acknowledge that they have been advised to consult an attorney to protect their interests in this transaction. Where the transaction involves financial and tax consequences, the parties acknowledge that they have been advised to seek the advice of their accountant or financial adviser.
- 34. **DISCLAIMER OF BROKER(S) AND RELEASE:** Broker(s) and Broker(s)' agents specifically disclaim responsibility for the condition of Property and/or for performance of Agreement by the parties. Parties acknowledge that they are not relying on any representation or warranties that may have been made other than those in writing, and the parties waive and release and relinquish any and all claims or causes of action against the Broker(s), their officers, directors, employees and/or their agents for the condition of the Property or the performance of this Agreement by the parties. Broker(s) and its agents are not experts in the areas of law, tax, financing, surveying, structural conditions, hazardous conditions, or engineering, and Buyer acknowledges that Buyer has been advised to seek professional advice from experts in these areas.
- 35. **FINAL WALK-THROUGH PRIOR TO CLOSING:** Buyer reserves the right to walk through Property within 48 hours prior to closing to determine whether terms of Agreement have been met.
- 36. **ENTIRE AGREEMENT:** This Agreement supersedes any and all understandings and agreements and constitutes the entire agreement between the parties and no oral representations or statements shall be considered a part hereof.
- 37. **TIME IS OF THE ESSENCE:** Buyer and Seller understand that no extensions of time limits contained herein are expected or agreed to unless specified in writing and signed by both Buyer and Seller. Time is of the essence.
- 38. **SUCCESSORS AND ASSIGNS:** This Agreement shall bind the personal representatives, administrators, successors and assigns of the parties.
- 39. **FACSIMILE/ELECTRONIC AUTHORITY:** As an Alternative to physical delivery, the parties agree that this Agreement, any amendment or modification of this agreement and/or any written notice of communication in connection with the agreement may be delivered to the Seller in care of the Listing Agent and the Buyer in care of the Seller Agent via electronic mail or by facsimile via the contact information set forth above. Any such communication shall be deemed delivered at the time it is sent or transmitted. Seller represents and warrants that an electronic email address has been provided to the Listing Agent from which

 AY
Buyer(s) Initials

MLS # 58031345102

 X
Seller(s) Initials

Seller may receive electronic mail. Buyer represents and warrants that an electronic email address has been provided to Selling Agent from which Buyer may receive electronic mail. The parties agree that the electronic signatures and initials shall be deemed to be valid and binding upon the parties as if the original signatures or initials were present in the documents in the handwriting of each party. All electronic means of signature or initials by any party must be accompanied with a certificate.

40. **MISCELLANEOUS:**

- A. **Amendment:** The parties agree that this Agreement may not be altered, amended, modified, or otherwise changed, except by a duly executed written agreement between the parties.
- B. **Headings:** The headings contained in this Agreement are for reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement.
- C. **Grammar and Syntax:** The grammar and syntax used in this Agreement shall be construed to give proper meaning and consistency to its content. Thus, "or" means "and/or," the singular may be construed to include the plural, the plural the singular, and the use of any gender or tense may be construed to include all genders and tenses.
- D. **Governing Law:** This Agreement shall be governed by and construed according to the laws of the State of Michigan, the state in which the Property is located.

41. **OTHER TERMS AND CONDITIONS:**

BUYER SIGNATURE AND ACKNOWLEDGMENT OF RECEIPT: Buyer hereby makes this offer with terms and conditions contained herein and acknowledges receiving a copy of this Agreement.

BUYER ADNAN YOUSEF BUYER *Adnan*
Please Print Signature

BUYER _____ BUYER _____
Please Print Signature

WITNESS *[Signature]* DATE 4-23-18
BASIM NAIMOU

SELLER SIGNATURE: Seller hereby agrees to terms and conditions contained herein. Seller acknowledges receiving a copy of this Agreement.

SELLER _____ SELLER *[Signature]*
Please Print Signature

SELLER _____ SELLER _____
Please Print Signature

WITNESS *[Signature]* DATE 4-25-18

BUYER ACKNOWLEDGMENT OF ACCEPTANCE: Buyer's signature below acknowledges receipt of Seller's signed acceptance of this Agreement and constitutes a final acceptance of Seller's counteroffer (if any changes were made by the Seller, thereby making this Agreement a counteroffer).

BUYER ADNAN YOUSEF BUYER *Adnan*
Please Print Signature

BUYER _____ BUYER _____
Please Print Signature

WITNESS *[Signature]* DATE 4-26-18
BASIM NAIMOU

DISCLAIMER: This form is provided as a service of the Greater Metropolitan Association of REALTORS® to its members. Those who use this form are expected to review both the form and details of this particular transaction to ensure that each provision of this form is appropriate for this transaction. The Greater Metropolitan Association of REALTORS® is not responsible for the use or reuse of this form, for misrepresentation, or warranties made in connection with this form.

MLS# 58031345102



Candice S. Miller

Public Works Commissioner
Macomb County

From: Macomb County Public Works Office

Date: 5-1-2018

To: MIDDD Board

Copy: File
Evaluation Committee

RE: Proposal Evaluation Project Award Recommendation
MCPWO RFP No.: **MCPWO-WWS-2018-RFP-007**
MCPWO Proposal Name: **Wastewater Master Plan**

This is an open competitive contract. The Request for Proposals (RFP) was advertised from 3-7-18 to 4-18-18 on the Michigan Inter-Governmental Trade Network (MITN) website. Six-Hundred Ninety-Seven (697) solicitations were sent out via MITN and Seventy-Six (76) firms downloaded the RFP.

Two (2) Addendums were issued during the course of the RFP. The Addendums provided responses to vendor questions submitted during the question period.

On 4-18-18, proposals were received from 2 firms. Each member of the Evaluation Committee independently reviewed and scored the proposals in accordance with MCPWO's policy. The possible range of scores was from 0 to 100%. The proposers were ranked as follows:

Firm	Score	Proposed Cost
Brown & Caldwell	75%	\$689,375.00
FTC&H	98%	\$1,196,259.00

The Evaluation Committee recommends that **Fishbeck, Thompson, Carr & Huber (FTC&H)**, the number one ranked proposer, be named as the consultant for the above referenced Project. The Evaluation Committee consisted of the MCPWO Wastewater Engineering staff and for the first time, a MIDDD community member.

Please be advised that during post-bid review the **FTC&H** cost was reduced by **\$125,419** to a new total of **\$1,070,840** through an in depth vetting process between MCPWO Engineers and FTC&H. The revised cost will be assigned as the Not-To-Exceed contract value for this project. The cost is divided between the MIDDD and SEMSD, FTC&H will execute a contract with the MIDDD and the MIDDD will invoice SEMSD for their portion of the cost.

- 1) **MIDDD Total = \$720,866.00**
- 2) **SEMSD Total = \$349,974.00**

Total Not-To-Exceed Contract Value = \$1,070,840.00

The original budget for MIDDD was \$600,000 and SEMSD was \$350,000. During the post-bid cost review the MIDDD total was reduced from \$776,834 to \$720,886 for a total reduction of \$55,968. The MIDDD overage will be funded by the 15 Mile Interceptor Repair funds, which is currently approximately \$5,000,000 under budget. During the post-bid cost review the SEMSD cost was reduced from \$419,425 to \$349,974 for a total reduction of \$69,451, which is within the approved budget.

On behalf of the Board please indicate your approval of this recommendation by signing below. Thank you for consideration of this recommendation.

Vince Astorino
Operations & Flow Manager
MCPWO Engineering-Wastewater Services

Evans Bantios, PE
Construction & Maintenance Manager
MCPWO Engineering-Wastewater Services

Steve Rozycki, PE
Engineer II
MCPWO Engineering-Wastewater Services

Stephen Downing
Engineer II
MCPWO Engineering-Wastewater Services

Mary Bednar, PE, CFM
Director of Public Services
Charter Township of Clinton

Approved: _____

Not Approved: _____

Hold: _____

Authorized Board Member Signature
Board Name

Authorized Board Member Name (print)

**TECHNICAL
EXPERTISE**

**HISTORICAL
KNOWLEDGE**

**LOCAL
UNDERSTANDING**

APRIL 18, 2018

COMMISSIONER CANDICE S. MILLER

Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, Michigan 48036-1005

RE: REQUEST FOR PROPOSAL

Macomb Interceptor Drain Drainage District
MCPWO Wastewater Master plan
Proposal No. MCPWO-WWS_2018-RFP-007

Dear Commissioner Miller:

Fishbeck, Thompson, Carr & Huber, Inc. (FTCH) is pleased to submit this proposal to assist the Macomb County Public Works Office (MCPWO) in implementing a Wastewater Master Plan (WWMP). We have joined with Anderson, Eckstein and Westrick, Inc. (AEW); Applied Science, Inc. (ASI); and Tetra Tech, Inc. (Tetra Tech) to create a team with the ***technical expertise, historical knowledge, and local understanding*** to deliver an effective plan the MCPWO can use for decades to come.

We understand the scope primarily includes developing two separate WWMPs, for each of the following systems:

1. Macomb Interceptor Drain Drainage District (MIDDD)
2. Southeast Macomb County Wastewater Districts, which include the following drainage districts:
 - Southeast Macomb Sanitary District (SEMSD)
 - Eight and One-Half Mile Relief Drain Drainage District (8 1/2 Mile Relief)
 - Southeast Macomb County Wastewater Disposal System (SEMCWDS)
 - Martin Sanitary Diversion Drainage District (MSDDD)

FTCH is a multidiscipline consulting firm with over 400 employees. Our local office is in Macomb Township, less than 5 miles from your office. Over the last 60 years, we have developed a reputation for excellence, thoroughness, and thoughtfulness. We pride ourselves in putting our clients' best interests first. This is evident in the fact that the majority of our clients return, and most of our work is due to repeat customers. We have been proudly providing as-needed engineering services to your office since 2013, and our staff has also worked on or managed many projects for your office dating back to the 1990s.

Working with Tetra Tech, we have completed a Comprehensive Wastewater Master Plan for the City of Grand Rapids, which provides service for 14 communities, and are currently helping the City update it every 5 years. The master plan provides information on existing system capacity, projections on existing useful life of the facilities, and identification of future facilities that will be required during the 25-year planning period. We are also the prime consultant for the City of Lansing's \$420 million Wet Weather Control Program, which includes combined sewer overflow (CSO), sanitary sewer overflow (SSO), and stormwater improvements to comply with the National Pollutant Discharge Elimination System (NPDES) permit and Administrative Consent Order.

AEW has been a trusted advisor to your office, and to many of the Macomb communities, since its inception in 1968. AEW is a leading design firm providing civil engineering, architecture, geographic information systems (GIS), consulting, and surveying services to 29 municipal clients. They are committed to the enduring strength of their communities through innovation, value, and engineering excellence. AEW will lead the data gathering process, most of the community coordination, and the SEMSD Analysis.

ASI has provided excellent and state-of-the-art civil engineering services for water supply, wastewater, and water resource infrastructure projects since 1984. As part of the 15 Mile Road sinkhole team, ASI updated the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) and MIDDD hydraulic model, and has worked with your office to optimize both systems' operations. ASI has also worked extensively on the Wayne County Northeast Sewage Disposal System and is currently working with Tetra Tech on the Chapaton Expansion Study. ASI will help develop options for the MIDDD system, and will use their extensive knowledge to update the SEMSD model and improve the system's operations.

Tetra Tech is an international engineering firm with over 16,000 employees that specializes in water and wastewater projects. With offices in Detroit and Port Huron, Tetra Tech has been serving the MCPWO for decades. Tetra Tech currently does not serve any of the communities in Macomb County, as such, they will work on developing the rate structures for both MIDDD and SEMSD, and will help develop the Contract Capacities, ensuring neutrality and trust in the process.

As stated earlier, our team has the **technical expertise, historical knowledge, and local understanding** to provide the requested services. We will hit the ground running and start providing you with results immediately with no learning curve needed.

We acknowledge receiving Addendum 1 (dated March 29, 2018) and Addendum 2 (dated April 13, 2018). We have also acknowledged this on the Bid Form included with the Cost Information.

We have assembled a team that understands your system and the issues you are currently facing, and has the skills and expertise to effectively help you serve Macomb County's residents and improve the state's waters.

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.



Maria E. Sedki, PE



James E. Smalligan, PE

Wastewater Master Plan Scope of Work

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Definitions

ACO:	Administrative Consent Order
AMP:	Asset Management Plan
BMP:	Best Management Practices
CIP:	Capital Improvement Plan
CSO:	Combined Sewer Overflow
DEQ:	Department of Environmental Quality
DWSD:	Detroit Water and Sewerage Department
GPI:	Grosse Pointe Interceptor
GLWA:	Great Lakes Water Authority
LCA:	Life Cycle Analysis
MCPWO:	Macomb County Public Works Office
MIDDD:	Macomb Interceptor Drain Drainage District
MGD:	Million Gallons per Day
MRBPS:	Marter Road Booster Pump Station
MSDDD:	Martin Sanitary Diversion Drainage District
NESPS:	Northeast Sewage Pumping Station
NPDES:	National Pollutant Discharge Elimination System
OMIDDD:	Oakland Macomb Interceptor Drain Drainage District
RTB:	Retention Treatment Basin
SAW:	Stormwater, Asset Management, and Wastewater
SEMCWDS:	Southeast Macomb County Wastewater Disposal System
SEMSD:	Southeast Macomb Sanitary District
SSO:	Sanitary Sewer Overflow
WRC:	Water Resources Commissioner (Oakland County)
WRRF:	Water Resources Recovery Facility
WWMP:	Wastewater Master Plan
WWTP:	Wastewater Treatment Plant

Project Overview

The Macomb County Public Works Office (MCPWO) is planning to enter an agreement with a qualified engineering consultant to develop a comprehensive Wastewater Master Plan (WWMP). The MCPWO is responsible for the oversight of several wastewater drainage districts. The WWMP will allow the MCPWO to analyze the systems as a whole to improve operating efficiency, maximize capital improvement projects, and enhance level of service to current and future customers. The master planning effort is separated into two major tasks, each of which are comprised of multiple sub-tasks.

- **Task 1** – Develop a WWMP for the Macomb Interceptor Drain Drainage District (MIDDD), which is comprised of 11 communities. The MIDDD communities include Sterling Heights, Fraser, Utica, Chesterfield, Clinton Township, New Haven, Washington Township, Lenox Township, Harrison Township, Macomb Township and Shelby Township. As part of the WWMP, evaluate and recommend the sanitary sewer needs for future development in the townships located in northern Macomb County, which include Washington, Ray, Armada, Richmond, Bruce and Romeo and assess if the MIDDD system can accommodate that.
- **Task 2** – Develop a WWMP for the drainage districts located in southeast Macomb County. The area in southeast Macomb County is currently comprised of several drainage districts, which include the 8 ½ Mile Relief Drain Drainage District, Martin Sanitary Diversion Drainage District (MSDDD), Southeast Macomb County Wastewater Disposal System (SEMCWDS), and Southeast Macomb Sanitary District (SEMSD). The existing districts serve the communities of Eastpointe, Roseville and St. Clair Shores.

The work included in Task 1 and Task 2 should not be treated independent from one another. The plans shall be integrated into one comprehensive WWMP for the MCPWO to reference, modify, update and enhance.

In summary, the MCPWO is building for the future and to protect Michigan's waterways. A comprehensive master plan is required to maximize the existing system's operation and maintenance efficiencies and to obtain maximum integration of system expansion. The master plan will provide the necessary detail to meeting current and future needs.

Background

Macomb Interceptor Drain Drainage District - MIDDD

The MCPWO is responsible for the management and operation of the MIDDD. Refer to Appendix 1 for the MIDDD service area and Appendix 2 for a schematic map of the MIDDD system.

The MIDDD system consists of approximately 38 miles of interceptor ranging in size from 15-inches to 11-feet in diameter. The system currently collects and conveys approximately 41 million gallons per day (MGD) of dry weather sanitary sewage flow and approximately 194 MGD of wet weather sanitary sewage flow from Macomb County. Flow from the MIDDD combines with flow from the Oakland Arm west of Schoenherr where it is then conveyed through the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) system. The MIDDD and OMIDDD flow is pumped by the Northeast Sanitary Pump Station (NESPS) to the GLWA WRRF (formerly the DWSD WWTP).

The majority of the MIDDD was constructed by the Detroit Water and Sewerage Department (DWSD) between 1970 and 1999 to extend sanitary sewer service to accommodate the population growth in Macomb County. The DWSD managed, operated, and maintained the MIDDD until sewer and facility ownership was transferred in 2010.

The MIDDD is established as a Chapter 20 drain in accordance with the Michigan Drain Code. The MIDDD resides entirely within Macomb County. The MIDDD interceptors and facilities are operated and maintained by the MCPWO.

The MIDDD includes the following communities, which covers approximately 100,000 acres and provides sanitary service to approximately 600,000 people:

- Chesterfield Township
- Clinton Township
- City of Fraser
- Harrison Township
- Lenox Township
- Macomb Township
- Village of New Haven
- Shelby Township
- City of Sterling Heights
- City of Utica
- Washington Township

Southeast Macomb County Wastewater Districts

Southeast Macomb County is provided sanitary sewer service by the following four drainage districts:

- 1) 8 ½ Mile Relief Drain Drainage District
- 2) Southeast Macomb County Wastewater Disposal System (SEMCWDS)
- 3) Martin Sanitary Diversion Drainage District (MSDDD)
- 4) Southeast Macomb Sanitary District (SEMSD)

The MCPWO operates and maintains the 8 ½ Mile Relief, SEMCWDS and MSDDD. The SEMSD is operated and maintained by the communities of Eastpointe, Roseville and St. Clair Shores. The schematic map in Appendix 2 illustrates each of the drainage districts, including pipe network, pump stations, and Retention Treatment Basin (RTB).

Dry weather flow is conveyed through the 8 ½ Mile Relief, 9 Mile Drain and Jefferson Interceptor to the Wayne County owned and operated Marter Road Booster Pump station (MRBPS). Dry weather flow is passed through the MRBPS via gravity to the Grosse Pointe Interceptor (GPI) and eventually the WRRF.

Wet weather flow is conveyed through the 8 ½ Mile Relief, 9 Mile Drain and Jefferson Interceptor to MRBPS where it is pumped into to GPI. If flows reach the contract capacity at MRBPS (102cfs), then flow will be diverted to the Chapaton RTB and Martin RTB for storage, treatment with sodium hypochlorite, and discharge into Lake St. Clair as needed.

Purpose

The purpose of this WWMP is to provide the MCPWO planning information and the framework for meeting the sanitary sewer needs for all existing and future customers for the next 25 years. Additionally, the MCPWO intends to eliminate SSOs, reduce CSO frequency and quantity, increase water quality of CSOs and enhance the sequence of operation to maximize system efficiency.

Scope of Services

Introduction

The WWMP tasks and sub-tasks provide the framework for the contract deliverables. The MCPWO objective is to develop a comprehensive plan to follow, modify, enhance and expand in effort to meet the needs of the growing population and upgrade the existing, aging infrastructure.

Task 1 – MIDDD WWMP

Sub-Task 1A – Northern Macomb County Development

Evaluate the MIDDD system to develop and recommend options to address potential growth and expansion needs. The townships located in northern Macomb County currently have limited options available to convey sanitary sewer flow to an existing collection system. This WWMP shall explore all options available to provide sanitary sewer service for these townships as well as review historical information and studies.

Sub-Task 1B – Community Outreach and Coordination

Evaluate the current contracts and special agreements with each MIDDD community to compare the current average dry weather flow and peak wet weather flows to the current contract capacities. These community contract capacities shall also be evaluated with the current MIDDD contribution of the OMIDDD contract capacity with GLWA. As part of this task, a review of community SSOs and “wet-sanitary” districts shall be evaluated. Provide recommendations based on this evaluation.

To maintain an optimal level of service the selected firm shall provide analysis of current population, demographic, and land-use information pertinent to the evaluation of current and future base and wet weather flows to project flows at five-year intervals for twenty-five years starting in the year 2019. Develop a long term strategy to manage current and future dry and wet weather flows.

As part of this task, GIS and sewer record drawings shall be collected and integrated into the MCPWO GIS platform for each of the MIDDD community sewer systems.

Sub-Task 1C – Develop Capital Improvement Plan, Life Cycle Analysis and Integrate an Asset Management Plan

This WWMP shall include a Capital Improvement Plan (CIP) with Life Cycle Analysis (LCA) and integration of existing Asset Management Plans (AMP). The intent is to address both the immediate and future sanitary sewer needs for all of the existing service community members and potential future service members.

The CIP plan shall examine the existing system operation and maintenance needs and the new construction needs for a 25 year period. The CIP shall include a LCA component.

The selected consultant will be provided access to the MCPWO asset management database and recent AMPs to utilize in developing a fully integrated AMP.

Sub-Task 1D – Rate Study

This master plan shall evaluate the findings from the integrated O&M, CIP, LCA, and AMP and develop a projected rate increase for future improvements to the system. This study shall only be performed for the recommended improvements, as determined by the WWMP and the MCPWO team.

Sub-Task 1E – DEQ and Regulatory

Evaluation of compliance with all regulatory guidelines for current and future permits is critical. The selected consultant will engage the MDEQ at the onset of the project and coordinate with the designated MDEQ representative(s) throughout the entire project.

As of September 18, 2017, the MIDDD has been under an administrative consent order (ACO) with the MDEQ. The MIDDD is currently taking all necessary steps as presented in the ACO and will provide a copy to the selected consultant.

Sub-Task 1F – Coordination with a Separate Odor and Corrosion Study

The MCPWO is evaluating entering an agreement with a qualified consultant under a separate contract to conduct a comprehensive odor and corrosion study. The consultant that is selected for this WWMP will be required to coordinate and integrate the results of the odor and corrosion study into this WWMP.

Sub-Task 1G – Collaboration & Coordination

An integral component of each task within this project is coordination and collaboration with each MIDDD community, the Oakland-Macomb Drain Drainage District (OMIDDD), Oakland County, Water Resources Commissioner (WRC) and the Great Lakes Water Authority (GLWA). It is important to maximize the planning and development through outreach to the MIDDD customers, partner communities and the authority that receives, treats and discharges the MIDDD flow.

Sub-Task 1H – Meetings & Presentations

Throughout the course of the project the consultant will be responsible to conduct meetings and presentations to various groups and audiences.

The project team will meet regularly with the MCPWO Engineering staff to review and discuss information and provide a comprehensive project update, including schedule updates. At times the audience will grow to include other members of the MCPWO staff. At other times it will be necessary to conduct presentations for MIDDD communities and/or the public to provide regular updates and obtain constructive feedback from Macomb County citizens.

Sub-Task 1I – Contract Deliverables

The contract deliverables are derived from the tasks set forth above. The intent is to receive a final comprehensive deliverable for the MCPWO to implement, enhance and modify as required. The final product will allow for informed decisions regarding allocation of budgets, grants, bonds and other funding methods. As part of this task, a summary of projected deliverables shall be included in the proposal.

Content of Proposal

A detailed work plan describing how the firm will accomplish each of the goals set forth above. The work plan shall describe in detail how each task will be completed. Information included in the work plan shall include proposed staffing, resources (internal and external), information required from MCPWO, schedule, and allocation of staffing hours per job designation. The work plan shall not include any associated costs.

Task 2 – SEMSD

Sub-Task 2A – Reduction and Elimination of CSOs

The reduction and elimination of CSOs is the primary goal for MCPWO by improving overall water quality. The WWMP should investigate all options to reduce and/or eliminate CSOs at the Chapaton & Martin RTBs. Options include operational, infrastructure improvements or additions, and BMP updates. As part of this WWMP, a detailed plan for the future shall be generated.

The MCPWO is currently conducting a feasibility study for expansion of the Chapaton RTB. The results of this study will be provided to the consultant awarded this project for reference and inclusion in this WWMP.

A detailed examination of the system's current water quality is required. In addition, each proposed system upgrade or expansion project shall consider the impact to quality of water being discharged. The ultimate goal is to eliminate CSO discharges entirely. However, the immediate goal is to reduce CSO discharge frequency while maintaining or improving the current discharge water quality.

The MCPWO will provide the capacity of facilities and discharge data since the year 2009.

Sub-Task 2B – Update Sanitary Flow Model

The most recent model for this area is outdated and requires a complete update. MCPWO is purchasing meters for a temporary metering program to assist in the development of the sanitary flow model. A cursory metering plan has been developed and implementation is scheduled for spring 2018. The proposed flow metering locations are illustrated in Appendix 3. Upon contract execution for the WWMP, a review of the proposed metering locations shall be evaluated for use in the model update. The data obtained will be provided to develop an updated SWMM Model and a list of all critical elevations.

This model shall be used to examine level of service and flow projections for the system over the next 25 years. The model shall also be used to develop a holistic operation scheme for current conditions to optimize operation efficiency.

Sub-Task 2C – Consolidate, Optimize and Simplify Operations

The current SEMSD system is operating in conjunction with the 8 ½ Mile Relief, MSDDD, and SEMCWDS. The main planning initiative is to consolidate operations, align operational sequences, and BMP to provide maximum benefit for the system. This includes evaluation and development of real time control strategies.

Sub-Task 2D – Develop Capital Improvement Plan, Life Cycle Analysis and Integrate an Asset Management Plan

This master plan shall integrate existing CIPs from the individual drainage districts to a comprehensive 25 year CIP to address both the immediate and future sanitary sewer needs for all of the existing service community members. CIPs have been established for the 8 ½ Mile Relief and SEMSD. CIPs will be completed for MSDDD and SEMCWDS by November 2018. This CIP shall also be integrated into the MCPWO NEXGEN asset management software.

The CIP plan shall examine and prioritize the existing and future system operation and maintenance needs.

The selected consultant will be provided access to the MCPWO asset management database to utilize the real-time operation and maintenance data available.

Sub-Task 2E – Rate Study

This master plan shall evaluate the findings from the integrated O&M, CIP, LCA, and AMP and develop a projected rate increase for future improvements to the system. This study shall only be performed for the recommended improvements, as determined by the WWMP and the MCPWO team.

Sub-Task 2F – DEQ and Regulatory

Evaluation of compliance with all regulatory guidelines and current and future permits is critical. The selected consultant will engage the MDEQ at the onset of the project and coordinate with the designated MDEQ representative(s) throughout the entire project.

Sub-Task 2G – Collaboration & Coordination

An integral component to this project is coordination and collaboration with the MCPWO, SEMSD Board, 8 ½ Mile Relief, MSDDD, SEMCWDS, each SEMSD community, Wayne County and the GLWA. It is important to maximize the planning and development through outreach to the SEMSD customers, partner communities and the authority responsible to receive, treat and discharge the SEMSD flow.

As part of this task, GIS and sewer record drawings shall be collected and integrated into the MCPWO GIS platform for each of the SEMSD community sewer systems.

Sub-Task 2H – Meetings & Presentations

Throughout the course of the project the consultant will be responsible to conduct meetings and presentations to various groups and audiences.

The project team will meet regularly with the MCPWO Engineering staff to review and discuss information and provide a comprehensive project update. At times the audience will grow to include other members of the MCPWO staff. At other times it will be necessary to conduct presentations for 8 ½ Mile Relief, MSDDD, SEMCWDS, and SEMSD boards as well as SEMSD communities and/or the public to provide regular updates and obtain constructive feedback from Macomb County citizens.

Sub-Task 2I – Contract Deliverables

The contract deliverables are derived from the tasks set forth above. The intent is to receive a final comprehensive deliverable for the MCPWO to implement, enhance and modify as required. The final product will allow for informed decisions regarding allocation of budgets, grants, bonds and other funding methods. Ultimately, this will act as the plan moving forward in the districts. As part of this task, a summary of projected deliverables shall be included in the proposal.

Content of Proposal

A detailed work plan describing how the firm will accomplish each of the goals set forth above. The work plan shall describe in detail how each task will be completed. Information included in the work plan shall include proposed staffing, resources (internal and external), information required from MCPWO, schedule, and allocation of staffing hours per job designation.

Schedules

Procurement Schedule

The MCPWO procurement schedule is summarized in the table below:

No.	Activity Description	Date
1	Advertise on MITN	3/7/18
2	Pre-Bid Meeting - Mandatory	3/22/18
3	Proposer questions due	4/12/18
4	Proposals due	4/18/18
5	Oral interviews (if required)	4/26/18
6	Award recommendation due	5/4/18
7	Board Meeting – Contract Approval	5/14/18
8	Finalize and execute contract documents	5/18/18
9	Issue Notice to Proceed – Start work	5/21/18

Project Schedule

Each consultant is required to provide a detailed project schedule in their proposals. The proposed project schedule should align with the firm's proposed work plan for each of the major tasks and the associated sub-tasks for each.

Cost Proposal

Each firm shall submit a cost proposal under a separate cover in accordance with the submission procedures detailed in the RFP that provides the estimated cost to execute their proposed work plan for each major task and each associated subsequent sub-task. The cost proposal shall include a summary of tasks to be completed, the number of work hours and cost per task and per level of staffing.

Work Plan

Submit a work plan for the proposed scope of work. The work plan shall include a summary of tasks to be completed, the number of work hours per task and per level of staffing.

Reference Documents

The following reference documents will be made available to the winning bid.

MIDDD Documents

1. Preliminary Evaluation of Wastewater Treatment Alternatives
2. SWMM Model – 2018
3. 2017 Project Plan for the Macomb Interceptor Drain – Romeo Arm
4. MIDDD SAW Grant – MDEQ SAW No. 1128-01
5. NGI SAW Grant – MDEQ No. 1406-01
6. NGI SAW Grant Chesterfield Interceptor – MDEQ SAW No. 1405-01
7. MCWDD SAW Grant – MDEQ SAW No. 1130-01
8. Current System Maps
9. Record As-Built Drawings
10. ACO-004875
11. Community Contract Capacity Analysis 2014

SEMSD Documents

1. SWMM Model – 2006
2. 8.5 Mile Relief SAW Grant – MDEQ SAW No. 1173-01
3. Martin SAW Grant – Scheduled for completion this year
4. SEMSD SAW Grant – Scheduled for completion this year
5. Current System Maps
6. Record As-Built Drawings
7. Chapaton Expansion Study – Scheduled for completion in October 2018

OFFICE OF THE MACOMB COUNTY PUBLIC WORKS COMMISSIONER
CANDICE S. MILLER

CHANGE ORDER FORM

Change Order No. Ten

Owner: Macomb Interceptor Drain Drainage District (MIDDD)
21777 Dunham Rd., Clinton Twp., MI 48036

Contractor: Dan's Excavating, Inc. (DEI)
12955 23 Mile Road
Shelby Twp., MI 48315

Project: PCI-12A 15 Mile Road Interceptor Repair – Recovery Shaft

The Contract is modified as follows upon execution of this Change Order:

		Date: <u>5/8/18</u>
Previous Change Orders:	Change Order # 1 thru 9	Net Change from Previous Change Orders: <u>0</u>
Contract Times Net Change to Substantial Completion this Change Order:	<u>0 Days</u>	Contract Times Net Change to Final Completion this Change Order: <u>0 Days</u>
Substantial Completion Date with All Approved Change Orders:	<u>10-30-17</u>	Final Completion Date with All Approved Change Orders: <u>6-30-18</u>

Adjustments to the Recovery Shaft Contract for:

Change Order No. 010 is issued to account for compensation to DEI for incorporating changes to the work into the "Recovery Shaft" Contract. This CO No. 010 dated 5/8/18 eliminates redundant items at the direction of the Owner's Representative and supersedes a previous version dated 4/26/18 negotiated but not executed. The following descriptions detail those changes:

Description:

DEI included a provision in their quote for the restoration work, approved in CO#5, that "Any Work completed in 2018 would require a 7% add for DEI items and 10% for paving items." The purpose of this provision was to cover annual inflation in material (concrete, aggregate, HMA, etc.), labor (wages) and operating (fuel, etc.) expenses. The Engineer certifies DEI aggressively prosecuted the work in 2017 without delay and continued to complete Work as long as weather permitted.

The Macomb County Department of Road (MDoR) changed their specified HMA top course Mix Design in 2018 from 13A to 5E. DEI provided unit pricing for this new Mix Design. MDoR also increased the area requiring milling and reduced the required thickness of the overlay from 2 inches to 1.5 inches. The impact of these changes are as follows:

<u>_CO#5 Cold Milling HMA Surface</u>	<u>2,944.69 SY</u>	<u>\$4.69/SY</u>	<u>\$13,810.60</u>	<u>[Add 'I Area Milling]</u>
<u>_CO#10 HMA, 5E</u>	<u>705.18 Tons</u>	<u>\$108.00/Ton</u>	<u>\$76,159.44</u>	<u>[HMA 5E @ 1.5"]</u>
<u>_CO#5 HMA, 13A</u>	<u>940.25 Tons</u>	<u>\$100.10/Ton</u>	<u>(\$94,119.03)</u>	<u>[HMA 13A @ 2"]</u>
Net Reduction due to these changes:			<u>(\$4,148.99)</u>	

MIDDD 17A

Also, DEI and the Engineer negotiated a 1/3 reduction in unit pricing for item of work Station Grading.

<u>_CO#5 Station Grading</u>	<u>2.5 STA</u>	<u>\$10,058.00/STA</u>	<u>(\$25,145.00)</u>
<u>_CO#10 Station Grading</u>	<u>2.5 STA</u>	<u>\$6,705.34/STA</u>	<u>\$16,763.35</u>
Net Reduction due to these changes:			<u>(\$8,381.65)</u>

Date: 5.8.18

Chief Deputy: _____

Manager(s): _____

Coordinator(s): BD

Finance Officer: btm

Board 5-14-18

OFFICE OF THE MACOMB COUNTY PUBLIC WORKS COMMISSIONER
CANDICE S. MILLER

CHANGE ORDER FORM

Change Order No. Ten

Finally, CO#10 provides compensation to DEI to extend expiration of their Installation/Builder Risk policy through The Hartford to June 30, 2018. This corresponds to the extended completion date approved in CO#8.

CO#10 Extend Expiration of Builder Risk Insurance Policy to 6/30/18 1 LS \$16,639.00/LS \$16,639.00

Quantities are estimated. Changes included in CO#10 result in an estimated net increase of \$4,108.36.

The Cost adjustment to the *Contract Price* for this Change Order No. 10 is as follows:


Total Cost adjustment to the "Recovery Shaft" Contract, per this Change Order 10 is: ADD \$4,108.36

The adjustment to the "Recovery Shaft" *Contract Time*, per this Change Order 10 is: 0 Days

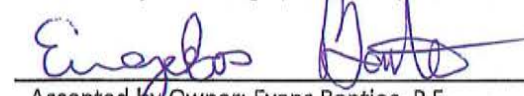
The "Recovery Shaft" Contract Substantial Completion date, remains: October 30, 2017.

The revised "Recovery Shaft" Contract Final Completion, per this Change Order 10 remains: June 30, 2018

Contract Price Prior to this Change Order:	\$ 39,821,262.19
Net Change of This Change Order:	\$ 4,108.36
Contract Price Incorporating this Change Order:	\$ 39,825,370.55 ✓


Recommended by Engineer: Louis Urban, PE
Senior Project Manager, Anderson, Eckstein & Westrick, Inc.

5/9/18
Date


Accepted by Owner: Evans Bantios, P.E.
Manager of Construction and Maintenance,
Macomb County Public Works

5/9/17
Date

Owner Authorization: Candice S. Miller
Macomb County Public Works Commissioner

Date

Clint McDonald
Contractor's Acceptance (Authorized Signature):
Dan's Excavating, Inc.

Digitally signed by Clint McDonald
Date: 2018.05.08 11:49:45 -04'00'
Date

2018 Lawn Maintenance RFQ Summary & Cost Comparison

A Request for Quotation (RFQ) was published on MITN for Lawn Maintenance at locations identified in Table 2. The RFQ was posted from March 28th to April 12th, with 39 contractors downloading documents during the posting period. On April 12th there were 6 proposals received, which are summarized in Table 1.

The contractors were directed to provide pricing to perform lawn maintenance service from May 1st through October 31st. Green Meadows Lawnscape is the low bidder for the sites described in the RFQ. Additionally, the largest MIDD community, Sterling Heights, highly recommends Green Meadows Lawnscape. They also provide services for Shelby Township, Macomb Township, Troy and Rochester Hills.

Table 1

	Contractor	Cost
1	Green Meadows Lawnscape	\$29,785.00
2	Marino's Landscape	\$33,451.00
3	Expert Lawn and Snow	\$37,000.00
4	Premier Group Associates	\$39,675.00
5	Ultimate Lawn Service	\$47,120.00
6	Premier Professional Landscape	\$73,632.00

Green Meadows Lawnscape Cost Breakdown

Table 2

No.	Drainage District	Name/Location	Cut	Trim	Frequency	# of Cuts	Cost Per Cut	Total Cost for Season
1	Clinton River Spillway	Clinton River Spillway	Yes	No	Twice a Month	13	\$500.00	\$6,500.00
2	Roseville Consolidated	Roseville Consolidated	Yes	No	Twice a Month	13	\$60.00	\$780.00
3	Bridgewood	Bridgewood	Yes	Yes	Twice a Month	13	\$30.00	\$390.00
4	Hildebrandt	Hildebrandt	Yes	Yes	Twice a Month	13	\$135.00	\$1,755.00
5	MIDDD	Sewage Flow Meter Site CH-S-1	Yes	Yes	Twice a Month	13	\$25.00	\$325.00
6	MIDDD	Sewage Flow Meter Site CH-S-2	Yes	No	Twice a Month	13	\$25.00	\$325.00
7	Shanahan Drain	Shanahan Drain Property	Yes	No	Twice a Month	13	\$85.00	\$1,105.00
8	MIDDD	Bio Filter	Yes	Yes	Once a Week	27	\$65.00	\$1,755.00
9	MIDDD	Sewage Meter Facility SY-S-3	Yes	Yes	Twice a Month	13	\$30.00	\$390.00
10	MIDDD	Sewage Meter Facility ST-S-3	Yes	Yes	Twice a Month	13	\$30.00	\$390.00
11	MIDDD	North Gratiot Pump Station	Yes	Yes	Once a Week	27	\$35.00	\$945.00
12	MIDDD	Clintondale Pump Station	Yes	Yes	Once a Week	27	\$60.00	\$1,620.00
13	MIDDD	Sewage Flow Meter Site NH-S-1	Yes	Yes	Twice a Month	13	\$30.00	\$390.00
14	MIDDD	ARV Vaults – 23 locations	Yes	Yes	Once a Month	7	\$460.00	\$3,220.00
15	11 ½ Mile Relief	11 ½ Mile Relief Property	Yes	Yes	Twice a Month	13	\$55.00	\$715.00
16	SEMCWDS	Bon Huer Pump Station	Yes	Yes	Once a Week	27	\$30.00	\$810.00
17	SEMCWDS	Violet Pump Station	Yes	Yes	Once a Week	27	\$30.00	\$810.00
18	8 ½ Mile Relief	Chapaton Retention Treatment Basin	Yes	Yes	Once a Week	27	\$220.00	\$5,940.00
19	8 ½ Mile Relief	Vacant Lot on Gaukler Street	Yes	Yes	Once a Week	27	\$25.00	\$675.00
20	Martin Sanitary Diversion	Martin Retention Treatment Basin	Yes	Yes	Once a Week	27	\$35.00	\$945.00

The total cost allocated to the respective drainage districts is summarized in Table 3. The contractor awarded this work would be required to execute a contract with each of the 10 drainage districts.

Table 3

No.	Drainage District	Drain Chapter	Total Cost
1	MIDDD	20	\$9,360.00
2	8 ½ Mile Relief	20	\$6,615.00
3	Martin Sanitary Diversion	20	\$945.00
4	SEMCWDS	342	\$1,620.00
5	Clinton River Spillway	21	\$6,500.00
6	Roseville Consolidated	20	\$780.00
7	Bridgewood	4	\$390.00
8	Hildebrandt	4	\$1,755.00
9	Shanahan Drain	20	\$1,105.00
10	11 ½ Mile Relief	20	\$715.00
TOTAL			\$29,785.00

Table 4 compares the cost incurred during the 2017 season versus 2018 costs for six locations using Green Meadows Lawnscape.

Table 4

No.	Drain	2017 Cost Per cut	2018 Cost Per cut	Savings Per cut	Total Savings for Season
1	Clinton River Spillway	\$980.00	\$500.00	\$480.00	\$6,240.00
2	MIDDD ARV Vaults	\$920.00	\$460.00	\$460.00	\$3,220.00
3	Bridgewood	\$520.00	\$30.00	\$490.00	\$6,370.00
4	Hildebrandt	\$520.00	\$135.00	\$385.00	\$5,005.00
5	Roseville Consolidated	\$520.00	\$60.00	\$460.00	\$5,980.00
6	Shanahan Drain	\$520.00	\$85.00	\$435.00	\$5,655.00
TOTAL SAVINGS					\$32,470.00

Further, if we spend a \$15,320 of the \$32,470 savings generated by contracting Green Meadows Lawnscape to maintain sites previously maintained by our MIDDD and Chapaton staff, we can redirect our full-time staff to more important and skilled tasks such as cleaning out the Air Relief Valves which we now pay a contractor \$120,000 per year, providing additional savings.

Green Meadows Lawnscape is cheaper than hiring part-time seasonal staff to cut grass, as they can cut all of our sites (absent Sterling Relief) for less than \$30,000 per year.

**Macomb Interceptor Drain Drainage District
FY 2018/2019 Budget & Charges
Executive Summary**

May 14, 2018

The attached proposed 2018/2019 Macomb Interceptor Drain Drainage District (MIDDD) budget increased \$4.2 million or 5.3%. Nearly two-thirds of the budget or \$3.7 million is a pass-through charge from the Great Lakes Water Authority (GLWA). The GLWA's proposed 7.4% increase is due to the final two-year phase-in of sewer shares and an increase in how the GLWA allocates the Northeast Pump Station (NEPS) costs to the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD).

The GLWA Board is scheduled to vote on the budget on May 23, 2018. The Macomb County GLWA representative will vote to reduce the increase by 2%. Further, OMIDDD is in discussions with the GLWA to operate the NEPS and the North Interceptor East Arm (NIEA) which will reduce long-term operating costs. The OMIDDD share of the MIDDD costs total 8% of the budget and was approved at the April 17, 2018 OMIDDD meeting.

While the GLWA budget has yet to be finalized, we are ready to adopt the MIDDD portion of the budget. MIDDD costs represent less than 30% of the total budget and is increasing by \$844,645 or 3.6%. MIDDD debt payments rose by 5.3% due to scheduled debt payments – no new debt is proposed. MIDDD operations and maintenance costs rose only \$90,187 or 1.0%, which helped to partially offset GLWA's higher 7.4% increase.

MIDDD operations and maintenance costs rose 1.0%, as several projects were completed last year and new initiatives are financed with funds on hand. Four million dollars is budgeted for repairs to 5 drop shafts, \$1 million to rehabilitate 2 billing meters and \$1 million for the design of possible interceptor repairs pending the results of the MIDDD inspection report. Future construction work would be funded in the following year's budget. Funds are also included for an Odor & Corrosion Study, sluice gates, MIDDD insurance, removal of the Clintondale Pump Station fatberg and in-sourcing electrical work by hiring a part-time SCADA Systems Manager.

The average sewer charge increase to the 11 MIDDD communities is 5.3%. There is a slight charge variability among the MIDDD communities due to updated five-year average sewer flow volumes. Attached is a more detailed budget and charge information which will explain the charges by cost center.

Once the GLWA budget is adopted, we will send out the final budget to all MIDDD communities well in advance of the new charges going into effect on July 1, 2018.

Should you have any questions, please do not hesitate to contact the Macomb County Public Works Office.

Attachment

9246.bd

**MIDD Budget
Total Sewer Charges**

Cost Category	2017/18 Charge	2018/19 Charge	Change	% Change	% of Total
GLWA - OMID	\$48,549,289	\$51,804,523	\$3,255,234	6.7%	61.7%
GLWA CSO Program	757,506	1,165,131	407,625	53.8%	1.4%
Total GLWA	49,306,795	52,969,654	3,662,859	7.4%	63.0%
OMID O&M	2,667,162	2,391,427	(275,735)	-10.3%	2.8%
OMID Debt	4,602,562	4,611,264	8,702	0.2%	5.5%
Total OMID	7,269,724	7,002,691	(267,033)	-3.7%	8.3%
Subtotal GLWA and OMID	56,576,519	59,972,345	3,395,826	6.0%	71.4%
MIDD Debt	14,297,826	15,052,284	754,458	5.3%	17.9%
MIDD O&M/Charge Required Revenue	8,899,463	8,989,650	90,187	1.0%	10.7%
Total MIDD	23,197,289	24,041,934	844,645	3.6%	28.6%
Total Budget	\$79,773,808	\$84,014,279	\$4,240,471	5.3%	100.0%

**MIDDD COMMUNITIES
TOTAL SEWER CHARGES
FY 2018 vs FY 2019**

Cost Category	2017/2018 Charge	2018/2019 Charge	Difference	% Change	Page #
1) GLWA-OMID ⁽¹⁾	48,549,289	51,804,523	3,255,234	6.7%	2
2) GLWA CSO Program	757,506	1,165,131	407,625	53.8%	2
3) Sub Total GLWA	49,306,795	52,969,654	3,662,859	7.4%	
4) OMID O&M	2,667,162	2,391,427	-275,735	-10.3%	2
5) MIDDD O&M/Charge Required Revenue	8,899,463	8,989,650	90,187	1.0%	2,4
6) Sub Total	60,873,420	64,350,731	3,477,311	5.7%	
7) OMID Debt	4,602,562	4,611,264	8,702	0.2%	3
8) MIDDD Existing Debt	14,297,826	15,052,284	754,458	5.3%	3
9) Sub Total Debt(See page 3)	18,900,388	19,663,548	763,160	4.0%	
TOTAL	79,773,808	84,014,279	4,240,471	5.3%	

Communities	2017/2018 Charge	2018/2019 Charge	Difference	% Change
Chesterfld Twp	6,361,522	6,680,471	318,949	5.0%
Clinton Twp	16,570,958	17,257,605	686,647	4.1%
Fraser	3,313,231	3,437,181	123,950	3.7%
Harrison Twp ⁽²⁾	4,536,013	4,885,068	349,055	7.7%
Lenox Twp ⁽²⁾	1,283,397	1,401,862	118,465	9.2%
Macomb Twp ⁽²⁾	10,696,986	11,765,526	1,068,540	10.0%
New Haven	1,022,398	1,071,937	49,539	4.8%
Shelby Twp	7,594,657	7,967,248	372,591	4.9%
Sterling Heights	24,727,534	25,718,623	991,089	4.0%
Utica	1,405,985	1,423,393	17,408	1.2%
Wash Twp ⁽²⁾	2,261,127	2,405,365	144,238	6.4%
TOTAL	79,773,808	84,014,279	4,240,471	5.3%

NOTES

- 1) Pending GLWA approval of sewer share charges
- 2) These 4 communities all had higher than average increased 5 year flow from last year to the current year. The remaining 7 communities either had a decrease or a minimal increase

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
2018-2019 SEWER CHARGES
Effective July 1, 2018

Five Year Rolling Average per actual consumption 7/1/2012-6/30/2017																
	Total Annual	% Macomb County	Allocated to Macomb Cty	Monthly	Chesterfield Twp	Clinton Twp	Fraser	Harrison Twp	Lenox Twp	Macomb Twp	New Haven	Shelby Twp	Sterling Heights	Ulica	Wash Twp	
OMIDD Charges to MIDD					6.9899%	20.9164%	4.1343%	5.9802%	0.8610%	14.5180%	0.8150%	9.9241%	31.2761%	1.7244%	2.8507%	100.00%
GLWA-OMID	76,362,800	67.84%	51,804,523	4,317,044	301,756	902,969	178,479	258,599	37,169	626,748	35,184	428,428	1,350,203	74,443	123,066	4,317,044
GLWA CSO Program	1,925,200	60.52%	1,155,131	97,094	6,787	20,309	4,014	5,816	836	14,096	791	9,636	30,367	1,674	2,768	97,094
GLWA Sub Total	78,288,000		52,959,654	4,414,138	308,543	923,278	182,493	264,415	38,005	640,844	35,975	438,064	1,380,570	76,117	125,834	4,414,138
OMID O&M	3,574,630	66.90%	2,391,427	199,286	13,931	41,583	8,239	11,939	1,716	28,932	1,624	19,777	62,359	3,436	5,651	199,286
Total GLWA and OMID Charges(Pg 17)	81,862,630		55,351,081	4,613,424	322,474	964,861	190,732	276,353	39,721	669,776	37,599	457,841	1,442,899	79,553	131,515	4,613,424
MIDD O&M/Charges Required Revenue(Pg 4)	8,989,650	100.00%	8,989,650	749,138	52,363	156,693	30,972	44,875	6,450	108,760	6,105	74,345	234,301	12,918	21,366	749,138
	90,852,280		64,350,731	5,362,562	374,837	1,121,654	221,704	321,228	46,171	778,536	43,704	532,186	1,677,200	92,471	152,871	5,362,562
O&M Total	4,498,042		13,459,846	2,680,447	3,854,735	554,051	9,342,431	524,447	6,386,231	20,126,389	1,108,651	1,894,451	64,350,731			
Debt Total	2,162,429		3,797,759	776,734	1,030,333	847,811	2,423,095	547,490	1,581,017	5,592,224	313,742	570,914	19,663,548			
Grand Total	6,660,471		17,257,605	3,457,181	4,885,068	1,401,862	11,765,526	1,071,937	7,967,248	25,718,623	1,423,393	2,465,365	84,014,279			

DEBT WORKSHEET
OMID and MIDDD

MIDD 2018-2019 DEBT WORKSHEET

Not Part of Monthly Invoice. Will be invoiced separately every 6 months
Does not include paying or calculation agent fees

	Principal	Interest	Interest Rebate	Total	Chesterfield Twp.	Clinton Twp	Fraser	Harr Twp	Lnx Twp	Macomb Twp	New Haven	Shelby Twp	St. Hgts	Ulica	Wash Twp	Total
MIDD DEBT SERVICE(FIXED BASED ON ORIGINAL FLOW)																
OMI CWR# #5368-01 26.076,000	623,150	236,771	-	859,921	65,846	187,778	39,804	50,119	4,206	112,783	8,982	79,549	275,343	15,506	21,005	859,921
OMI 6.7 Million Bond Series 2010B (Recovery Zone Bonds)	151,925	136,025	(52,185)	235,765	16,053	51,483	10,639	13,741	1,163	30,922	2,462	21,810	75,491	4,252	5,759	235,765
OMI 2014A	214,398	118,485		332,883	25,490	72,690	15,021	19,401	1,628	43,659	3,477	30,794	106,588	6,004	8,131	332,883
OMI-2011 \$25,530,000 SRF 5368-02	542,418	255,593		798,011	78,709	224,461	46,384	59,809	5,028	0	10,736	0	329,135	18,540	25,108	798,011
OMI-2013 SRF 5368-03	1,396,150	544,737		1,940,887	163,785	467,025	96,509	124,649	10,461	280,506	22,338	0	684,815	38,576	52,243	1,940,887
OMI Possible Bond for NEPS-In 2020																
SAW Loan Project 2001-01	284,746	159,051		443,797	0	144,544	29,870	38,579	0	0	6,914	0	211,951	11,939	0	443,797
Clintondale Pump Station Rehab-2011	1,300,000	1,095,000		2,395,000	183,385	522,987	108,074	139,563	11,716	314,119	25,013	221,552	768,869	43,199	58,503	2,395,000
NGI Phase 2015 Refunding District Apportionment 37.9892%	364,792	267,595		632,387	48,422	138,092	28,536	36,856	3,094	82,941	6,805	59,500	202,468	11,406	15,447	632,387
NGI Bond Series 2010 \$16,965 million District Appt 4.6529%	27,219	35,895	(13,721)	49,193	3,767	10,742	2,220	2,867	241	6,452	514	4,351	15,751	867	1,202	49,193
MIDD 2017A Sinkhole Bond	1,345,000	2,829,850		4,174,850	291,817	873,227	172,600	250,082	36,946	606,105	34,025	414,316	1,305,730	71,991	119,012	4,174,850
MIDD SRF 5624-01-Macomb Element	150,000	82,751		232,751	17,024	50,988	10,323	13,307	1,322	31,657	2,188	22,503	72,831	4,403	6,105	232,751
Macomb Interceptor Bonds-2010 Refunding Appt 87.2903%	2,147,341	2,678,241		4,825,582	369,496	1,053,743	217,754	281,240	23,607	632,904	50,398	446,395	1,545,132	87,039	117,874	4,825,582
Totals-Fixed	8,547,139	8,439,794	(65,906)	16,921,027	1,265,774	3,797,760	776,734	1,030,333	98,401	2,142,048	173,652	1,299,970	5,592,224	313,742	430,390	16,921,027

	Principal	Interest	Interest Rebate	Total	Chesterfield Twp.	Clinton Twp	Fraser	Harr Twp	Lnx Twp	Macomb Twp	New Haven	Shelby Twp	St. Hgts	Ulica	Wash Twp	Total
INDIVIDUAL DEBT SERVICE(NEGOTIATED)																
NGI Phase 2015 Refunding Remaining Apportionment 62.0008%	595,208	436,617		1,031,825	657,866				241,224		132,743					1,031,825
NGI Bond Series 2010 Remaining Apportionment 95.3471%	557,781	731,465	(281,166)	1,008,078	258,787				508,186		241,095					1,008,078
Macomb Interceptor Bonds-2010 Refunding Remaining Appt 12.7097%	312,659	389,959		702,618						281,047		281,047			140,524	702,618
Totals-Negotiated	1,465,648	1,558,041	(281,166)	2,742,521	916,655	0	0	0	749,410	281,047	373,838	281,047	0	0	140,524	2,742,521
TOTAL by COMMUNITY					2,182,429	3,797,760	776,734	1,030,333	847,611	2,423,095	547,490	1,581,017	5,592,224	313,742	430,390	19,663,548

36

Total OMID and MIDDD
OMID 4,611,254
MIDD 15,052,294
19,663,548

INFORMATIONAL ONLY-NOT INCLUDED IN MIDD BUDGET CALCULATION

	Principal	Interest	Interest Rebate	Total	Chesterfield Twp.	Clinton Twp	Fraser	Harr Twp	Lnx Twp	Macomb Twp	New Haven	Shelby Twp	St. Hgts	Ulica	Wash Twp	Total
NGI Lenox Local	650,000	408,500		1,058,500					1,058,500							1,058,500
NGI 2006-Phase 5	125,000	101,388		226,388					151,853		74,535					226,388
Totals-Informational	775,000	509,888		1,284,888					1,210,353		74,535					1,284,888
Totals-Negotiated									2,068,164		622,025					2,690,189

MIDDD
Operations Maintenance
Budget to Actual

Description	Page #	Actual 2016/2017	Actual 2/28/2018	Projected 6/30/2018	Budget 2017/2018	Budget 2018/2019	Budget Change	% Change	Notes
EXPENSE									
Public Works Wastewater Personnel Cost	5	1,136,635	1,165,499	1,397,292	1,499,667	1,602,641	102,974	6.9%	
Office Operations/Insurance	6	74,563	46,308	82,564	120,600	288,653	168,053	139.3%	First year of liability and underground insurance for MIDDD system
SCADA	7	217,047	84,602	126,902	195,800	151,626	45,826	49.3%	State required network maintenance and truck to new employee
Sewer Systems Projects/Studies/Eng. Design	8	3,448,708	1,017,932	2,345,000	5,995,000	10,975,000	5,380,000	96.2%	Drop shaft repair partially offset by use of reserves
Legal Services	9	224,160	109,949	164,925	650,000	400,000	(250,000)	-38.5%	
Clintondale PS O&M	10	396,632	162,919	244,379	395,000	550,000	155,000	39.2%	Various maintenance projects. See page 10 for detail
NGI O&M	11	438,874	110,672	166,008	174,000	371,000	197,000	113.2%	Replacement of sluice gates
Meters O&M	12	289,514	176,539	264,807	377,000	330,000	(47,000)	-12.5%	
CS-3 O&M	13	0	0	0	0	52,000	52,000	100.0%	First year of MIDDD maintaining this flow gate
Biofilter O&M	14	72,534	1,521	5,000	175,000	304,500	129,500	74.0%	Replacement media filter
Contribution to Emergency Reserve		3,100,000	666,964	1,000,000	1,000,000	0	(1,000,000)	-100.0%	
Contribution Life Cycle Reserve	7,10,11,14	178,000	118,664	178,000	178,000	171,700	(6,300)	-3.5%	
Sewage Disposal Charges - Mt. Clemens		196,978	124,392	186,988	206,000	200,000	(6,000)	-2.9%	
Debt Service -SRF Revenue Bonds	16	723,504	115,600	173,396	173,396	572,530	399,134	230.2%	SRF revenue bonds now close to completion and less funds on hand
Total		10,497,149	3,901,261	6,334,861	10,649,463	15,969,650	5,320,187	50.0%	
REVENUE									
Reimbursements ⁽¹⁾	15	2,617,349	66,111	134,267	275,000	125,000	(150,000)	-54.5%	
Grants/SRF Funding	15	2,030,985	1,192,982	1,300,000	1,220,000	500,000	(720,000)	-59.0%	Ties to less SAW Grant engineering costs
MIDDD O&M/Charge Required Revenue	2	8,680,180	5,191,342	8,899,463	8,899,463	8,969,650	90,187	1.0%	
Carryforward	15				250,000	3,325,000	3,075,000	1230.0%	Money collected for projects in 17/18 but not completed until 18/19
IMRF of Reserves					0	3,000,000	3,000,000	100.0%	Planned draw down for drop shaft repairs
IMRF					5,000	30,000	25,000	500.0%	Increased reserves and Treasurer's office now handling investments
Total		13,332,012	6,472,229	10,368,730	10,649,463	15,969,650	5,320,187	50.0%	
Reserve		12,353,000		23,781,000 ²		17,702,700 ²			

Additional Notes

1) MIDDD receives reimbursement from OMID for SCADA and personnel from other drainage districts.

2) Broken out as follows:

SCADA Life Cycle(4 Years)	150,000
Clintondale PS Life Cycle(4 Years)	225,000
NGI Life Cycle(4 Years)	90,000
CS-3 Life Cycle(1st Year)	0
Biofilter Life Cycle(4 Years)	69,000
Surplus MIDDD Acquisition(2010 Bond)	407,000
Surplus Const. CFS (2011 Bond)	2,990,000
Proj Surplus 2016 sinkhole project	5,000,000
Emergency Reserve	11,600,000
Carryforward	3,250,000
Spending of Carryforward	0
Contribution/Use of Surplus	0
Total	23,781,000

Needed for possible sinkhole phase 2, sinkhole litigation/claims, and MIDDD's share of OMID's portion of NEPS/NIEA repair and upgrades

3) Potential sale of property located at Garfield/M-59 for an estimated \$4,000,000

Public Works Wastewater Disposal Division
 Personnel Cost
 FY 2018/2019

Position	Salary	Number of Positions	BUDGET 2017/2018	BUDGET 2018/2019	NOTES
Chief Engineer-Wastewater Services	105,402	0	104,358	0	
Operation & Flow Manager	88,880	1	0	88,880	
Construction and Maint Manager	88,880	1	0	88,880	
Wastewater Engineer II	79,481	2	236,082	158,962	
Wastewater Field Supervisor	69,360	1	68,673	69,360	
SCADA System Manager	79,481	1	66,968	79,481	
SCADA Part Time	66,968	0.5	0	33,484	
Engineer I	67,638	1	66,968	67,638	
Community Wastewater Services Manager	55,927	1	0	55,927	New position pending board approval
GIS Specialist/Engineering Tech	54,479	0.5	26,745	27,240	Joe Betz will be transitioned to this position pending board approval
Wastewater Field Operator	50,204	3	149,121	150,612	
Wastewater Services Specialist	47,810	1	47,337	47,810	
Incentive Pay, P. E.			2,400	2,400	
1/3 Admin support from GF(Candice,Karen, Brian,Dan,Tony)	490,476	1.65	156,785	161,857	Should have been included in 2018 budget
		14.65	925,437	1,032,531	
Overtime			35,000	40,000	
Standby Pay			30,000	25,000	
Longevity			1,800	2,400	
Fringe Benefits		Subtotal	66,800	67,400	
			487,430	481,710	
Accounting Support Staff		Subtotal	1,479,667	1,581,641	
			20,000	21,000	
		Grand Total Wages/Fringe Benefits	1,499,667	1,602,641	

MIDDD
Office Operations

Project #	MIDDD OFFICE OPERATIONS	BUDGET 2017/2018	BUDGET 2018/2019	NOTES
09-0014.3	Bank Fees	100	0	
	Command Center	1,500	2,000	
	Computer Consultant(33%)	5,300	1,749	Beginning in October will transition to County's accounting software
	Dues,Membership & Subscriptions	9,000	3,000	
	Equipment Repair & Maintenance	25,000	15,000	
	Equipment	1,000	7,500	
	Gasoline(County)	8,500	8,000	
	Internal Service Cost(County)	30,000	20,000	Cross charge from county for telephone, car insurance, and building insurance
	Insurance	0	192,204	First year of liability and underground insurance for MIDDD system
	Office Supplies	3,000	1,000	
	Operating Supplies	9,000	2,000	
	Parking & Mileage	500	200	
	Personnel-Non WWS Employees	12,000	12,000	Charge to WW for personnel from Chapaton
	Postage & Shipping	100	500	
	Training	1,000	5,000	
	Uniforms	1,000	1,000	MWEA and WEFTEC Conferences(multiple people), Nexgen & SCADA training, etc
	Electricity	1,000	0	
	Water Hauler	100	0	
	New computer for new hire	0	1,500	
	New 27" Monitors (Evans and Steve D)	0	2,000	
	Internet	1,000	0	
09-0014.3	Weather Radar	1,500	2,000	
	Telephone	5,000	7,000	
09-0014.4	Vehicle Maintenance	5,000	5,000	
	Total	120,600	288,653	

SCADA

Project #	SCADA	BUDGET 2017/2018	BUDGET 2018/2019
09-0014.29	Motor City-SCADA as needed	92,000	50,000
	Battery replacements for 10 (6 OMID shared) of the billing meter sites	0	2,583
	UPS battery replacements	0	1,000
	Network Maintenance (State required tower inspections etc)	0	22,686
	Wonderware Software support renewal September 2018 ⁽³⁾	0	6,785
	Sonicwall support renewal ⁽³⁾ (3 year extension)	0	3,161
	VMWare support renewal ⁽³⁾ (3 year extension)	0	5,933
	VEEAM support renewal ⁽³⁾ (1 year extension)	0	390
	Dell SANs and DR4100 renewal ⁽³⁾ (2 year extension)	0	13,153
	Dell servers and switch renewal ⁽³⁾ (2 year extension)	0	8,720
	Comcast Business Service for Chapaton @ \$237 per month	1,966	1,223
	Comcast Business Service for Command Center @ \$129.85 per month	1,967	670
	Comcast Business Service for Clintondale @ \$225.25	1,967	1,162
	Cell modem service (Verizon) 6 units @ \$40.00 per month	0	2,266
	Cell modem service (Sprint) 9 units @ \$15.00 per month	7,900	1,004
	Sonicwall replacements 1 unit at NGIPS	0	1,200
	Juniper switch replacement at NGIPS	0	1,690
	Microsoft Surface for new SCADA position	0	3,000
	New Truck	0	25,000
	Total⁽¹⁾	105,800	151,626
	Future costs of upgrade-Life Cycle ⁽²⁾	50,000	38,700

NOTES

- 1) A detailed review of all SCADA costs was completed by the MCPWO engineering department. It was determined that all SCADA costs were not being displayed in budget. Beginning with the 18/19 budget a more detailed report is now being provided.
- 2) Used for future server upgrades
- 3) Renewal of various software necessary for the operation of SCADA

SYSTEM PROJECTS/STUDIES/CONSULTING

Project #	Engineer	Macomb System	BUDGET 2017/2018	BUDGET 2018/2019
		<i>As-needed support(Year 1 of 2)</i>		
		Hydraulics	62,500	75,000
		Electrical	62,500	75,000
		Mechanical	62,500	75,000
		Planning	62,500	75,000
		Odor & Corrosion	62,500	75,000
		Structural/Rehab	62,500	75,000
09-0014.44	ASI	Meter Dye Dilution Testing/As needed	100,000	100,000
		Engineering Design for MID repairs ⁽¹⁾	0	1,000,000
		Drop Shaft Repairs(MA-S-2),CT-S-2, HR-S-2, ST-S-5,UT-S-1) ⁽²⁾	0	4,000,000
		SY-S-1 & SY-S-2 Meter Rehab ⁽⁴⁾	0	1,000,000
		System wide odor and corrosion study ⁽³⁾	0	500,000
4 09-0014.23	J&A	McMARS Operations	50,000	50,000
1 saw		SAW Engineering	1,570,000	625,000
09-0014.23-1		McMars Rollout Support	50,000	0
TBD		Engineering Contingency	200,000	0
Carryover		Bluewater	100,000	100,000
Carryover	HRC	Eng Meter Rehab Design(SYS-1 & SYS-2)	250,000	250,000
Carryover		Drop Shaft Repair ⁽²⁾	2,000,000	2,000,000
Carryover		Wastewater Master Plan/Contract Capacity	600,000	600,000
Carryover		Level Sensors/Pressure/H25	300,000	300,000
		Total	5,595,000	10,975,000

NOTES

- 1) Possible phase 2 repairs. SRF will not cover the costs for Design MIDD inspection should be completed in June when we will have better numbers for the repair
- 2) \$2,000,000 for repair of ST-S-4 and design of other 5 sites. Will rehab remaining 5 structures with the \$4,000,000
- 3) Due to changes within the system the previous odor studies are outdated. Will perform a system wide study that will run parallel to the MIDD Master Plan.
- 4) We will have better numbers once the design is completed. These are currently just projections from the study

LEGAL SERVICES

Project #	Legal Services	BUDGET 2017/2018	BUDGET 2018/2019
0092-05.1	2016 Sinkhole/General MIDDD	650,000	400,000
	Total	650,000	400,000

**CLINTONDALE PUMP STATION
OPERATIONS and MAINTENANCE**

Project	Clintondale Pump Stat O & M	2017/2018 BUDGET	2018/2019 BUDGET
10-0004.3	O&M	145,000	125,000
10-0004.3	Spare Parts	0	35,000
	Electrical Repairs ⁽¹⁾	0	40,000
	Upstream Grease Blockage ⁽²⁾	0	100,000
	Wet Well Level Sensors ⁽³⁾	0	50,000
	Utilities	250,000	200,000
	Total	395,000	550,000
	Life Cycle/Future repairs ⁽⁴⁾	75,000	75,000

NOTES

- 1) On-going power feed issues causing pot transformers to melt. Designed a solution to remedy the problem.
- 2) Cost to remove large floating mass (fatberg) upstream of CPS.
- 3) Pressure transducers have failed in the wet well and need to be replaced.
- 4) Replacement cost for impeller, pump shaft, discharge header, diffuser bowl, etc.

**NORTH GRATIOT INTERCEPTOR
OPERATIONS and MAINTENANCE**

Project	NGIO & M	2017/2018 BUDGET	2018/2019 BUDGET
	O&M	164,000	150,000
	Spare Parts	0	10,000
	Intermediate Chamber Sluice Gates ⁽¹⁾	0	200,000
	Storage Shed ⁽²⁾	0	3,000
	Utilities	10,000	8,000
	Total	174,000	371,000
	Life Cycle/Future repairs ⁽³⁾	30,000	30,000

NOTES

- 1) Planning to replace the intermediate sluice gates with hydraulically driven gates tied to SCADA so that we can properly isolate wet wells
- 2) Storage shed for the NGIPS
- 3) Replacement value for pumps, HVAC, force main, odor control

**METERS
OPERATION and MAINTENANCE**

Project	METERS O & M	2017/2018 BUDGET	2018/2019 BUDGET
09-0014.19-1&-2	Hesco-Meter Maintenance	300,000	250,000
	Utilities	50,000	30,000
	As Needed-Hesco ⁽¹⁾	27,000	50,000
	Total	377,000	330,000

NOTE

1) In system meters CS 5,6, and 7 were not part of original contract

**CS-3
OPERATION and MAINTENANCE**

Project	CS-3 O&M	2017/2018 BUDGET	2018/2019 BUDGET
	O&M/Labor	0	50,000
	Spare Parts	0	2,000
	Total	0	52,000
	Life Cycle		5,000

Notes:

This is a new asset that was previously maintained by OMID During OMI construction Oakland County maintained this asset. With OMI construction coming to a close, Macomb County will now handle O&M.

**BIOFILTER
OPERATIONS and MAINTENANCE**

Project	BIOFILTER O & M	2017/2018 BUDGET	2018/2019 BUDGET
	O&M / Labor	100,000	50,000
	Spare Parts	0	1,500
	Water	0	3,000
carryover	Media Filter Replacement ⁽¹⁾	75,000	250,000
	Total	175,000	304,500
	Life Cycle ⁽²⁾	23,000	23,000

NOTES

- 1) Currently in the study phase to replace the wood chips with a possible alternate carbon engineered media.
- 2) Replacement value for media bed filter material, centrifugal fan, HMA driveway, flow conditioner, etc.

Revenue Detail

Revenue	2017/2018 BUDGET	2018/2019 BUDGET
Reimbursements ⁽¹⁾	275,000	125,000
Grants/SRF Funding ⁽²⁾	1,220,000	500,000
Carryforward ⁽³⁾	250,000	3,325,000
Use of Reserves	0	3,000,000
Interest	5,000	30,000
Total	1,750,000	6,980,000

NOTES

1) Reimbursement from OMID for personnel, SCADA, and engineering.

Also, reimbursed from Chapaton Pump Station for personnel

2) Projected SAW funding 500,000

MIDDD Inspections SAW 1128-01

3) Remaining projects that were charged in prior years that should be completed in 18/19

Wastewater Master Plan/Contract Capacity 600,000

Eng Meter Rehab Design(SYS-1 & SYS-2) 250,000

Drop Shaft Repair 2,000,000

Level Sensors/Pressure/H25 300,000

Bluewater 100,000

Media Filter Replacement 75,000

TOTAL 3,325,000

Revenue Bond Calculation
 SRF 5540-01 (Biofilter)
 and
 5487-01 (Meter Pit Rehab)

Payment Date	2018/2019 BUDGET
Fall 2018	208,400
Spring 2019	477,400
Less Cash on Hand	(113,270)
Total ⁽¹⁾	572,530

NOTE

1) SRF 5540-01 and 5487-01 are classified as revenue bonds so they must be included in the rate calculation on page 4, unlike the debt shown on page 3.

Previous budget and charges based on maximum SRF draws from State. As actual SRF debt payments were lower than budgeted, the cash on hand will be used to offset current SRF debt payments.

	Fall 2018
5540-01 Interest	18,650
5540-01 Principal	100,000
5487-01 Interest	89,750
Total	208,400
	Spring 2019
5540-01 Interest	17,650
5487-01 Principal	370,000
5487-01 Interest	89,750
Total	477,400

Oakland Macomb Interceptor Drain Drainage District (OMIDDD) FY 2019
 Charge Summary

April 4, 2018

Effective July 1, 2018

Exhibit A

Annual Operating Charges

	2019 Budget	COSDS		Annual		Monthly	
		%	Macomb	COSDS	Macomb	COSDS	Macomb
<u>GLWA</u>							
Common-to-all and OMIDDD Charges	\$ 76,362,000	32.16%	67.84%	\$ 24,558,019	\$ 51,803,981		
CSO Program	1,926,000	39.48%	60.52%	760,327	1,165,673		
Total	78,288,000			25,318,346	52,969,654		\$ 2,109,862.17 \$ 4,414,137.83
<u>OMIDDD</u>							
Operations and Maintenance Expense							
Sewer System Maintenance	1,048,730	33.10%	66.90%	347,130	701,600		
Sewer System Engineering	108,100	33.10%	66.90%	35,781	72,319		
Pump Maintenance Unit	-	33.10%	66.90%	-	-		
Systems Control Unit	655,840	33.10%	66.90%	217,083	438,757		
Mapping Unit	-	33.10%	66.90%	-	-		
Miss Dig	250	33.10%	66.90%	83	167		
General and Administrative	500,380	33.10%	66.90%	165,626	334,754		
Subtotal	2,313,300			765,703	1,547,597	63,808.58	128,966.42
Non Operating							
Major Maintenance	400,000	33.10%	66.90%	132,400	267,600	11,033.33	22,300.00
Emergency Maintenance	-	33.10%	66.90%	-	-	-	-
Capital Improvement	1,000,000	33.10%	66.90%	331,000	669,000	27,583.33	55,750.00
Subtotal	1,400,000			463,400	936,600		
O&M Non-Rate Revenue	(138,670)	33.10%	66.90%	(45,900)	(92,770)	(3,825.00)	(7,730.83)
FY 2019 Total Fixed Charges	\$ 81,862,630			\$ 26,501,549	\$ 55,361,081	2,208,462.41	4,613,423.42

MACOMB INTERCEPTOR DRAIN - 5/14/18

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance
Macomb Interceptor Drain Administration	Chapter 20 Chesterfield - 7.06912% Clinton - 21.19453% Fraser - 4.20779% Harrison - 5.83288% Lenox - .76183% Macomb - 13.78561% New Haven - .80870% Shelby - 9.87770% Sterling Heights - 31.74642% Utica - 1.80810% Washington - 2.80732% SAW Grant 1128-01 (Closing date 11/27/19)						
		Astorino	Boyne Mountain Resort	\$ 819.96	MWEA Conference - June 2018	Training Lodging	
		Astorino	D/TN, LLC	\$ 706.12	Invoice #5317797 - 4/20/18	Storm Sentry Subscription	
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 1,420.80	Invoice #373673 - 4/4/18 Engineering Services - ending 3/23/18	GLWA Assistance	
		Astorino	FK Engineering Associates	\$ 7,138.85	Invoice #17-134-003 - 4/6/18 Engineering Services - 3/1/18 - 3/31/18	As-needed Engineering Services (To be billed to Clinton Township)	\$ 43,203.90
		Astorino	Giffels Webster	\$ 28,679.88	Invoice #116065 - 3/30/18 Engineering Services - ending 3/24/18	Inspection Program & Grant Management MID Sewer Inspection Work - Red Zone	\$ 206,657.96
		Astorino	HESCO	\$ 107,616.00	Invoice #20180568 - 4/4/18	Flow Meters	To be reimbursed by SEMSD
		Astorino	Home Depot	\$ 549.50	Invoice #8512828 - 3/21/18	Hilti Drill - To be used for projects throughout district	
		Astorino	Home Depot	\$ 839.88	Invoice #3024545 - 3/26/18	Confined Space Trailer Equipment	
		Astorino	Johnson & Anderson	\$ 4,777.50	Invoice #41559 - 4/20/18 Engineering Services - ending 3/31/18	MCMARS Conversion to Bluewater	\$ 30,667.50
		Astorino	Macomb Community College	\$ 2,240.00	Invoice #005645579 - 4/3/18	Confined Space Training - 4 employees	
		Astorino	Macomb County Dept. of Roads	\$ 539.06	Invoice #300934 - 3/14/18	Monthly Gas - ending 2/28/18	
		Astorino	Mount Clemens	\$ 21,896.46	Invoice #12397 - 4/5/18	Sewage Flow Billing - 2/24/18 - 3/23/18	
		Astorino	Nickel & Saph, Inc.	\$ 178,704.96	Invoice #18927 - 4/10/18	General Liability, Public Officials' Liability & Hired and Non-owned Auto Liability	
		Astorino	Paul Conway Shields	\$ 5,355.00	Invoice #0420688-IN - 4/9/18	Equipment for Confined Space Trailer	
		Astorino	Premier Safety	\$ 650.00	Invoice #04141762 - 3/26/18	Gas Detector - Confined Space Trailer	
		Astorino	Steve Rozycki	\$ 650.00	MWEA Conference - June 2018	Training Registration	
Astorino	Sears	\$ 630.71	Invoice #0172505139806 - 3/21/18	Tools - Confined Space Trailer			
Baker	Viviano Law	\$ 889.40	Invoice #19709 - 4/3/18 Legal Services - ending 3/31/18	MIDDD vs. Sterling Heights			
Baker	Viviano Law	\$ 14,444.42	Invoice #19710 - 4/3/18 Legal Services - ending 3/31/18	General Matters			

MACOMB INTERCEPTOR DRAIN - 5/14/18

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance	
Macomb Interceptor Drain (Continued)	Clintondale P.S.	Astorino	DE-CAL, Inc.	\$ 9,750.00	Invoice #WO18250041 - 4/3/18	Remove/Replace 3 CAVs, Replace Flanges & Hardware on 3 CAVs		
		Astorino	DE-CAL, Inc.	\$ 6,025.00	Invoice #WO18250042 - 4/3/18	Remove/Replace 4 CAVs & hardware		
		Astorino	DE-CAL, Inc.	\$ 4,044.33	Invoice #WO18000912 - 4/12/18	Quarterly Maintenance on HVAC System		
		Astorino	DTE Energy	\$ 10,613.30	Monthly Electric - 2/24/18 - 3/26/18			
		Astorino	Motor City Electric Technologies, Inc.	\$ 1,200.00	Invoice #91633 - 2/6/18	Pump #4 - Start/Stop Malfunction		
		Astorino	Wild Bill and Associates	\$ 780.00	Invoice #7722 - 3/29/18	Replacement Sign		
		15 Mile Sinkhole		Bantios	\$ 1,964.25	Invoice #17105 - 4/1/18	Sinkhole	
				Bantios	\$ 56,595.16	Legal Services - ending 3/29/18	Recovery Shaft	
				Bantios	\$ 1,221,278.67	Invoice #0117265 - 3/21/18	Recovery Shaft	
				Bantios	\$ 1,035.00	Engineering Services - 2/5/18 - 3/4/18	Raise patio at 34980 Eberlein	
Meters		Astorino	Dan's Excavating, Inc.	\$ 3,000.00	Construction Estimate #13 - 4/27/18	Carpet at 34980 Eberlein		
		Astorino	Detroit Concrete Leveling	\$ 1,007.00	Invoice #5214 - 4/3/18	Sinkhole		
		Astorino	Service Floor Covering, Inc.	\$ 500.07	Invoice #11-3442 - 3/24/18	16 Metering Sites		
		Astorino	Viviano Law	\$ 16,640.00	Invoice #19708 - 4/3/18	MID Meter Maintenance		
		Astorino	DTE Energy	\$ 1,537.50	Monthly Electric - 3/23/18 - 4/23/18	MID Meter Repair		
		Astorino	HESCO	\$ 1,456.43	Application #17 - 4/13/18			
		Astorino	HESCO	\$ 4,331,353.33	Invoice #10226 - 4/16/18			
		NGI		Astorino	\$ 6,047,328.54	Monthly Electric - 3/2/18 - 4/2/18	Sewerage Disposal Charges - March 2018	
		OMID		Astorino		Invoice #SDS0005694 - 4/3/18		
					Total			

Income Statement
MIDDD
As of April 30, 2018

	30-Jun-17	7-1-17 to 4-30-18
Revenues	Total Fund	O&M*
Expenditures		50,550,192.00
Equity	33,301,122	68,336,784.68

NOTES

Projected reserve at 6/30/2018 is

* Includes following Projects:

Dec 2016 Sinkhole

10,000,000

Revenue	75,862,537	70,000,000	2017A Bond
Expenditures	69,665,687	5,150,000	State Grant
Net	6,196,850	131,735	Clinton Twp share of AEW invoice