

Miller
Santo
Klinefelt

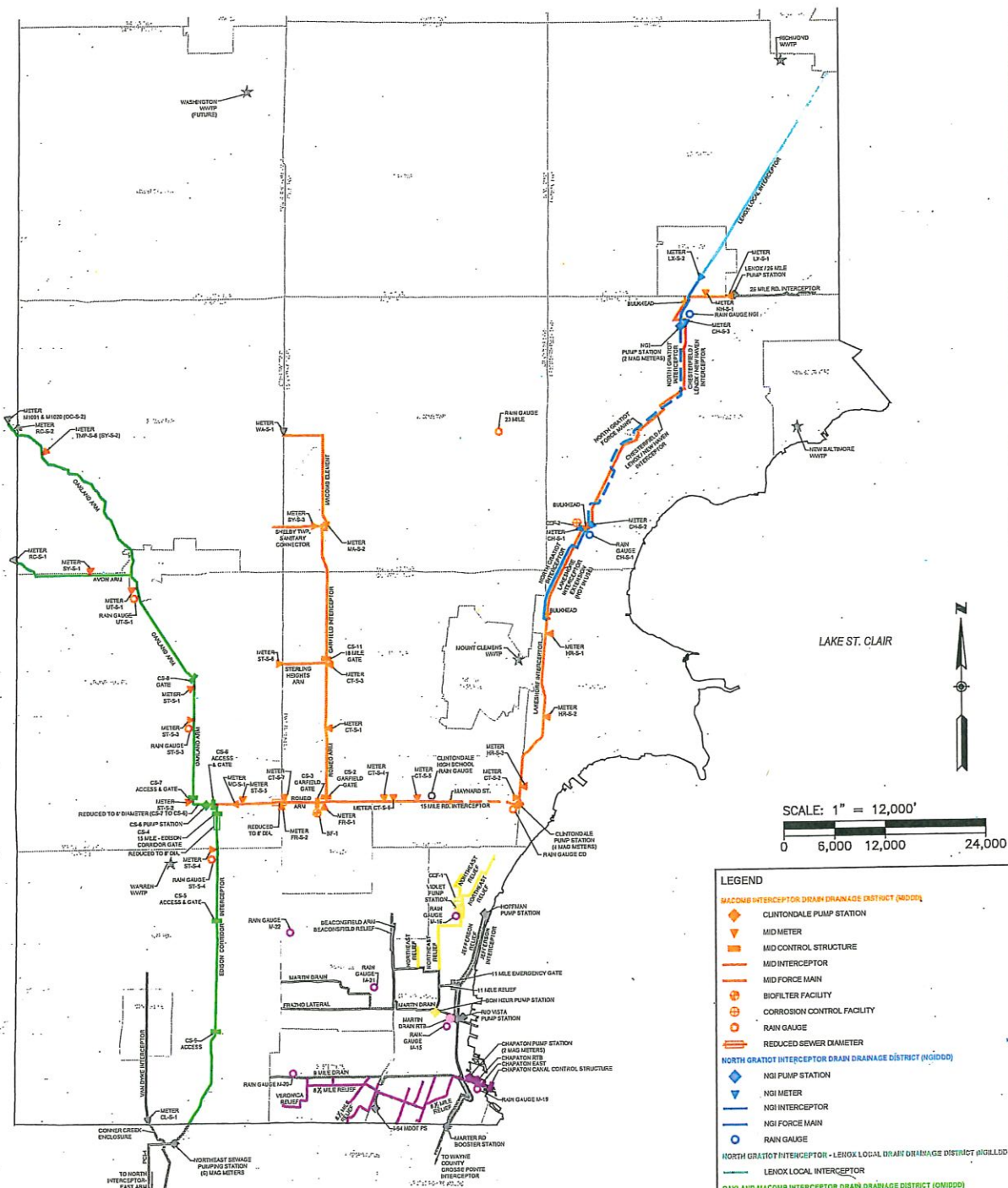
EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
APRIL 13, 2020
10:00 A.M.
AGENDA

NOTE: THIS MEETING WILL BE HELD BY TELECONFERENCE

Call in Number: 1-408-418-9388
Access Code: 713 089 569

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for April 13, 2020	
3. Approval of Minutes for March 9, 2020	3
4. Public Participation	
5. Project Updates - Vince Astorino	
6. Insurance Policy Renewal (2% increase) – Bruce Manning/Stephen Saph	5
Motion: To approve the Chapter 20 General Liability Insurance coverage renewal with Argonaut Insurance Company in the amount of \$189,369 (8.5 Mile share \$6,438.55)	
7. Consideration for approval of invoices (see attached)	9
8. Financial Report – Bruce Manning	124
9. Adjourn	

MACOMB COUNTY WASTEWATER SYSTEMS



- LEGEND**
- MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (M0000)
 - CLINTONDALE PUMP STATION
 - MID METER
 - MID CONTROL STRUCTURE
 - MID INTERCEPTOR
 - MID FORCE MAIN
 - BIOFILTER FACILITY
 - CORROSION CONTROL FACILITY
 - RAIN GAUGE
 - REDUCED SEWER DIAMETER
 - NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (N01000)
 - NGI PUMP STATION
 - NGI METER
 - NGI INTERCEPTOR
 - NGI FORCE MAIN
 - RAIN GAUGE
 - NORTH GRATIOT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (N101000)
 - LENOX LOCAL INTERCEPTOR
 - OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (O01000)
 - CS-6 PUMP STATION
 - OMD METER
 - OMD CONTROL STRUCTURE
 - OMD INTERCEPTOR
 - REDUCED SEWER DIAMETER
 - 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
 - CHAPATON WEST PUMP STATION
 - CHAPATON RETENTION TREATMENT BASIN
 - CHAPATON CANAL CONTROL GATE
 - 1/2 MILE INTERCEPTOR
 - RAIN GAUGE
 - SEMOS WASTEWATER SYSTEMS DISTRICT (S00000)
 - SEMOS PUMP STATION
 - CORROSION CONTROL FACILITY
 - SEMOS INTERCEPTOR
 - MARTIN SANITARY DIVISION DRAINAGE DISTRICT (M00000)
 - MARTIN DRAIN RETENTION TREATMENT BASIN
 - OTHER SYSTEMS
 - PUMP STATION
 - METER
 - WWTP
 - INTERCEPTOR

Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on March 9, 2020, at 10:09 A.M.

PRESENT: Candice S. Miller, Chair
Veronica Klinefelt, Member
Bryan Santo, Member

ALSO PRESENT: Robert Mijac, Harold Haugh, Macomb County Board of Commissioners; Brian Baker, Chief Deputy, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Danielle Devlin, Environmental Specialist, Kellie Kource, Drain Account Specialist, Karen Czernel, Deputy, Dan Heaton, Communications Manager, Macomb County Public Works

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

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of February 10, 2020 were presented. A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

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

A motion was made by Ms. Klinefelt, supported by Mr. Santo to authorize a Change Order increase to the Pump & Screen Project Contract with J.F. Cavanaugh for a not-to-exceed amount of \$40,000 for the addition of high water flashboards to the existing gates.

Adopted: YEAS: 3
NAYS: 0

A motion was made by Ms. Klinefelt, supported by Mr. Santo to authorize a Change Order reduction to the Pump & Screen Project Contract with J.F. Cavanaugh in the amount of \$136,200 by eliminating the stop log installation.

Adopted: YEAS: 3
NAYS: 0

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the proposal from Access Interactive in a not-to-exceed amount of \$106,354 for replacement SCADA Storage Area Network hardware and installation (\$34,299 8.5 Mile share).

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$607,842.74 to the board for review and approval.

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

Adopted: YEAS: 3
NAYS: 0

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

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Ms. Klinefelt, supported by Mr. Santo, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 10:18 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on March 9, 2020 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 3/9/20



Candice S. Miller

Public Works Commissioner
Macomb County

TO: Chapter 20 Boards
FROM: Bruce Manning, Finance Officer
DATE: April 13, 2020
RE: Liability Insurance

Please see below the insurance cost breakdown for the new 2020 insurance policy. After an analysis of the 2019 expenses, other drains' percentages were minimal.

Chapter 20
Insurance Cost Breakdown
April 26, 2020 Renewal

DRAIN NAME	PERCENT	PORTION OF INSURANCE
Eight Half Mile Relief	3.400%	\$ 6,438.55
Martin	0.600%	\$ 1,136.21
MIDDD	96.000%	\$ 181,794.24

Insurance bill	\$ 189,369.00
----------------	---------------

MIDDD Costs	
Liability	\$ 181,794.24
Third-Party Administrator	\$ 1,500.00
Underground Infrastructure	\$ 12,000.00
MIDDD Total Cost	\$ 195,294.24



NICKEL & SAPH, INC.
INSURANCE SINCE 1929

MAILING ADDRESS:

P.O. BOX 46907
MT. CLEMENS, MI 48046-6907

OFFICE ADDRESS:

44 MACOMB PLACE
MT. CLEMENS, MI 48043
(586) 463-4573 • (810) 765-8887
1-800-657-7373 • FAX: (586) 463-3135
www.nickelsaph.com

March 18, 2020

Mr. Brian Baker
Macomb County Intra-County Drains &
Drainage Districts
21777 Dunham Road
Clinton Twp., MI 48036

Dear Mr. Baker:

Please accept the following renewal proposal of certain liability coverages that have been secured for the Intra-County drains and drainage districts.

Carrier: Argonaut Insurance Company
A. M. Best Rating: A- XIV. Admitted by the State of Michigan.

General Liability

Aggregate Limit:	\$12,000,000
Occurrence Limit:	\$11,000,000
Personal and Advertising Injury:	\$11,000,000
Products/Completed Operations Aggregate:	\$11,000,000
Retention:	\$250,000

Policy terms include Blanket Additional Insured; Broadcasting, Publishing, and Telecasting offenses are covered under Personal Injury. The Pollution exclusion does not apply to: Hostile Fire, Emergency Operations, Mobile Equipment, Pesticides and/or Herbicides, Water Treatment, Above Ground Tanks, and Water and/or Sewer operations.

Automobile Liability

Occurrence Limit:	\$11,000,000
Retention:	\$250,000

Coverage is afforded for non-owned and rented autos only. No aggregate limitation applies.

Public Officials' Liability

Aggregate Limit:	\$12,000,000
Per Wrongful Act Limit:	\$11,000,000
Retention:	\$250,000
Annual Premium:	\$189,369
Terrorism Risk Insurance:	\$5,102

The expiring annual premium was \$185,706. The renewal offering has increased \$3,663 or 1.97%. Last year, Terrorism Risk Insurance was excluded (optional coverage). Premium is not subject to annual audit.

Afforded liability limits are separate from each other. Payment of claims for one line of coverage will not impact or reduce the limits dedicated to the remaining lines of coverage. Please refer to policy forms for terms, definitions, conditions, and exclusions.

The retention applies to both the payment of claim adjustment expenses and third-party damage payments. Once the retention is exhausted, the specific limit is dedicated to the payment of third party damages alone; claim expenses are outside of the afforded limits. Argonaut requires the continued third-party administrator (TPA) relationship with the ASU Group or other approved TPA.

Argonaut has include their proprietary Water Plus 360 endorsed which adds the following coverage enhancements: Under General Liability: Pollution exceptions for water operations; removal of Inverse Condemnation exclusion; Insured contract definition adds sidetrack agreements; watercraft extended for non-owned to under 100 feet and owned up to 300 h.p; and dams are scheduled by endorsement. Under Public Officials': Removal of Inverse Condemnation exclusion and coverage added for Wrongful Acts related to the distribution, treatment, discharge, testing, monitoring, or extraction of water or wastewater.

Prior to the procurement of this coverage in April 2018, no dedicated liability insurance had been secured for any of the drainage districts. In 2018, we performed a broad ranging marketing effort in search of a willing carrier and a competitive premium. Eleven (11) carriers were approached of which eight (8) declined to quote. The primary reason so many declined to quote was the lack of prior coverage and the inability to present a formal, prior loss history. While this year we did not conduct a detailed marketing effort, we did informally communicate with many carriers. The overwhelming response was that until the districts were able to provide at least three (3) years of official, hard copy loss runs, proposals would not be offered. With less than two (2) full years of reporting, we obviously did not have enough historic data to secure other quotes.

In addition to securing the afforded liability coverages, we continue to monitor additions or improvements to the districts' physical assets. We have been advised that no measurable changes occurred over the past year. You will recall that all property insurance is secure under Macomb County's property insurance policy.

In June of 2019, agency staff assisted in the filing of a claim against an at fault, third party to collect damages resulting from an auto accident. \$6,990 was collected on behalf of the districts for property damages that occurred to an electrical box as a result of the accident.

Please review this information and contact me with any questions or concerns. I plan to attend the meeting on Monday, April 13, 2020. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen R. Saph Jr.", written in a cursive style.

Stephen R. Saph Jr., LIC
Agent

EIGHT AND ONE HALF MILE RELIEF DRAIN - 3/10/20 - 4/7/20

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
8 1/2 Mile Relief	Chapter 20 State of MI - 16.04% County of Macomb - 2.25% Dept. of Roads - 2.25% Eastpointe - 54.33% St. Clair Shores - 25.13%	Astorino	Access Interactive LLC	\$ 11,063.62	Invoice #NNV000102198 - 3.31.20	SCADA Maintenance (Upgrades and Licenses)	
		Baker	Aloia & Associates, P.C.	\$ 888.25	Invoice #19478 - 2.1.20	Chapaton Permit - Legal	
		Baker	Aloia & Associates, P.C.	\$ 1,453.50	Invoice #19575 - 3.1.20	Legal - Chapaton Easement	
		Astorino	Consumers Energy	\$ 676.62	Invoice #204120905307 - 3.9.20	Monthly Electric - 2.7.20 - 3.9.20	
		Astorino	De-Cal	\$ 1,437.41	Invoice #WO9200252 - 3.11.20	Chapaton Heater Repair	
		Astorino	De-Cal	\$ 658.70	Invoice #WO90020105-1 - 3.23.20	Spring Preventative Maintenance - HVAC	
		Astorino	DTE Energy	\$ 7,151.28	Invoice #20-133 - 3.9.20	Monthly Electric - 2.10.20 - 3.9.20	
		Astorino	Evoqua Water Technologies	\$ 923.12	Invoice #904386482 - 3.16.20	Lab Supplies	
		Astorino	Fishbeck	\$ 1,960.22	Invoice #390171 - 3.2.20	As-Needed Services - 9 Mile Pipe	\$ 121,218.11
		Astorino	Fishbeck	\$ 2,470.49	Invoice #389934 - 3.2.20	Chapaton Building Renovation	\$ 2,908.86
		Astorino	JCI Jones Chemicals Inc	\$ 4,072.58	Invoice #816103 - 3.17.20	Hypochlorite Solution - 4,507 Gallons	
		Astorino	JF Cavanaugh	\$ 13,500.00	Invoice #WO18350 Est 1 - 2.26.20	Pump/Screen Project	\$ 1,188,972.00
		Downing	Meadowbrook Insurance	\$ 13,750.00	Invoice #3977 - 2.20.20	OCIP Set Up Fee	
		Astorino	Motion & Control Enterprises, LLC	\$ 625.00	Invoice #Y38898-002 - 2.21.20	Chapaton Gate Hydraulic Repair	\$ 153,687.71
		Astorino	Tetra Tech	\$ 37,671.68	Invoice #51561487 - 3.4.20	In-System Storage Devices	\$ 111,446.28
		Astorino	Tetra Tech	\$ 42,241.43	Invoice #51571567 - 4.2.20	In-System Storage Devices	\$ 307,036.65
		Astorino	Wade Trim	\$ 120,258.91	Invoice #2017374 - 2.28.20	Chapaton RTB Canal Upgrades	\$ 93,968.88
		Astorino	Wade Trim	\$ 10,406.12	Invoice #2017376 - 2.28.20	Chapaton RTB Disinfection Improvements	
		Astorino	Wade Trim	\$ 22,643.75	Invoice #2017673 - 3.27.20	Chapaton Disinfection Improvements	\$ 71,323.13
		Total			\$ 293,852.68		



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/31/20
4. SET ID VP200402MA		
5. POST DATE		

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be issued to) Access Interactive LLC	7. VENDOR NUMBER V00035
8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) INV000102198
10. Invoice Date 3/31/2020	11. Invoice Amount \$ 29,503.00

CHILD RECORD DETAIL INFORMATION				20. DIV	21. MISC	22. Sep CK
General Ledger	Job Ledger	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount		
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)
A	80146	CC0014	80146	WO19008	MIDDD	SCADA Maintenance
B	80146	CC0014	80146	WO19008	8 1/2 Mile Relief	SCADA Maintenance
C	80146	CC0014	80146	WO19008	Martin	SCADA Maintenance
D	80146	CC0014	80146	WO19008	SEMCWWDS (V)	SCADA Maintenance
E	80146	CC0014	80146	WO20016	MIDDD (OMID)	SCADA Maintenance
F						
G						

23. Total: \$ 29,503.00

REV 06/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Vmare vSphere Licensing (Upgrades and New Licenses)

PW00064

25. Finance Officer:	30. Drain:
Bm/MH	Multiple
26. Chief Deputy:	31. Project Balance:
	N/A
27. Engineers:	32. Staff Date:
	4/7/2020
28. Managers:	33. Board Date:
	4/13/2020
29. Coordinator:	34. Select For Pay Date:

Access Interactive, LLC.
 46635 Magellan Drive
 Novi MI 48377

Invoice	INV000102198
Date	3/31/2020
Page	1

Phone (248) 567-3000

Bill To:

Macomb County Public Works Office (MCPWO)
 Attn: Accounts Payable
 21777 Dunham Road
 Clinton Township MI 48036

Ship To:

Macomb County Public Works Office (MCPWO)
 Brent Welsler, SCADA System Mgr
 21777 Dunham Road
 Clinton Township MI 48036

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
PW000064	MACOMBDPW4257	1004	MAIL	Net 30	2/26/2020	107,776
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
4	4		0 LIC-VMWA-VS6-STD-EPL-UG-C-	T1 Upg vSphere 6 Std to Vsphere Ent+	\$2,495.25	\$9,981.00
4	4		0 LIC-VMWA-VS6-EPL-C-T1	T1 vSphere 6 Ent+	\$3,136.50	\$12,546.00
8	8		0 LIC-VMWA-VS6-EPL-P-SSS-C	VMware Support and Subscription Productl 100% All Drain Districts.	\$872.00	\$6,976.00

Subtotal	\$29,503.00
Misc	\$0.00
Tax	\$0.00
Freight	\$0.00
Trade Discount	\$0.00
Total	\$29,503.00

Signature _____

Date _____

Thank you for your order!

If you have any questions regarding your invoice,
 please call (248)567-3000.



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/12/20
4. SET ID VP200313MA		
5. POST DATE		

PARENT RECORD INFORMATION				
6. VENDOR NAME (Check to be issued to) Aloia & Associates, P.C.	7. VENDOR NUMBER V25733	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 19478	10. Invoice Date 2/1/2020
			11. Invoice Amount \$ 888.25	

CHILD RECORD DETAIL INFORMATION											
Line	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	OPTIONAL		18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC
						17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80139	CC0004	80139	WO18006	8 1/2 Mile Relief		Re: 8 1/2 Mile Relief	\$ 888.25	GEN	
B											
C											
D											
E											
F											
G											

23. Total: \$ **888.25** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>bam</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	3/24/2020
28. Managers:		33. Board Date:	4/13/2020
29. Coordinator:	<i>bc</i>	34. Select For Pay Date:	

ALOIA & ASSOCIATES, P.C.

48 South Main Street, Suite 3
 Mount Clemens, MI 48043
 (586) 783-3300

Invoice submitted to:

8 1/2 Mile Drain Drainage District Macomb County Department of Public Works Attn: Brian Baker 21777 Dunham Road Clinton Township, MI 48036

<i>Invoice Date</i>	<i>Invoice Number</i>	<i>Last Bill Date</i>
February 1, 2020	19478	January 1, 2020

In Reference To: 8 1/2 Mile Drain Drainage District.

Professional Services

		<u>Hours</u>	<u>Amount</u>
1/3/2020	ALF Re: Chapaton / Shore Club Apartments, LLC - Receive, review and process email from Attorney Aloia to Vincent Astorino inquiring about status of survey.	0.25	23.75
1/8/2020	BJA Re: Chapaton - Communication with Scott Bliss from Wade Trim regarding legal descriptions.	0.30	57.00
1/13/2020	BJA Re: Chapaton - Telephone call with Scott Bliss of Wade Trim regarding legal description and sketch for easement document.	0.25	47.50
1/22/2020	ALF Re: Shore Club Apartments, LLC - Office conference with Attorney Aloia regarding permanent easement; draft Grant of Permanent Easement and forward to Attorney Aloia for review and revisions.	1.00	95.00
	BJA Re: Chapaton - Review and analysis of client documents, communications with Vince Astorino regarding easement; strategize creation of easement with Amy Federlein.	1.00	190.00
1/29/2020	BJA Re: Chapaton - Communications with Vince Astorino regarding status.	0.25	47.50

	<u>Hours</u>	<u>Amount</u>
1/30/2020 BJA Re: Chapaton - Analysis of client documents; draft Easement; communications with Vince Astorino.	1.50	285.00
1/31/2020 BJA Re: Chapaton - Telephone call with Vince Astorino; edit proposed easement; client communications about details.	0.75	142.50
For professional services rendered	<u>5.30</u>	<u>\$888.25</u>
Previous balance		\$118.75
Accounts receivable transactions		
2/27/2020 Payment - Thank You. Check No. 4015		<u>(\$118.75)</u>
Total payments and adjustments		<u>(\$118.75)</u>
Balance due		<u><u>\$888.25</u></u>

Timekeeper Summary

<u>Name</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Benjamin J. Aloia	4.05	190.00	\$769.50
Amy L. Federlein	1.25	95.00	\$118.75



ONESolution
 ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

Mark A. Hackel
 County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/28/20
4. SET ID V2200328MA		5. POST DATE

PARENT RECORD INFORMATION		
6. VENDOR NAME (Check to be issued to) Aloia & Associates, P.C.	7. VENDOR NUMBER V25733	8. ADDR CODE 01
9. Invoice No (MAX = 16 CHARACTERS) 19575	10. Invoice Date 3/1/2020	11. Invoice Amount 1,453.50

CHILD RECORD DETAIL INFORMATION										
General Ledger	Job Ledger	OPTIONAL								
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object							
16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount							
20. DIV	21. MISC	22. Sep CK								
A	8210017M	80139	80139	WO18006	8 1/2 Mile Relief	Re: 8 1/2 Mile Relief	\$ 1,453.50	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ **1,453.50** REV 08/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

BM/MT

25. Finance Officer: _____ 30. Drain: **8 1/2 Mile Relief**

26. Chief Deputy: _____ 31. Project Balance: **N/A**

27. Engineers: _____ 32. Staff Date: **4/7/2020**

28. Managers: _____ 33. Board Date: **4/13/2020**

29. Coordinator: _____ 34. Select For Pay Date: _____

ALOIA & ASSOCIATES, P.C.

48 South Main Street, Suite 3
 Mount Clemens, MI 48043
 (586) 783-3300

Invoice submitted to:

8 1/2 Mile Drain Drainage District
 Macomb County Department of Public
 Works
 Attn: Brian Baker
 21777 Dunham Road
 Clinton Township, MI 48036

<i>Invoice Date</i>	<i>Invoice Number</i>	<i>Last Bill Date</i>
March 1, 2020	19575	February 1, 2020

In Reference To: 8 1/2 Mile Drain Drainage District

Professional Services

		<u>Hours</u>	<u>Amount</u>
2/1/2020	BJA Re: Chapaton - Continue to edit and finalize Easement Agreement.	1.25	237.50
2/4/2020	BJA Re: Chapaton - Client communication regarding survey and issues relating to easement; telephone call with Vince and Scott Bliss of Wade Trim regarding same; analysis of survey and lease documents.	1.00	190.00
2/6/2020	BJA Re: Chapaton - Continue communications with Vince regarding status.	0.25	47.50
2/7/2020	BJA Re: Chapaton - Communications with Marie Racine.	0.25	47.50
2/8/2020	BJA Client follow up.	0.25	47.50
2/10/2020	BJA Re: Chapaton - Edit Easement Agreements to create a temporary easement and permanent easement; communications with Vince Astorino and Joe Viviano about State requirements; re-analysis of Shore Club's lease with the State of Michigan.	3.00	570.00
2/12/2020	BJA Re: Chapaton - Telephone call with Marie Racine regarding her representation of Pappas and project; client follow up email.	0.60	114.00

		<u>Hours</u>	<u>Amount</u>
2/13/2020	BJA Re: Chapaton - Receive and review plans from Vince Astornio; client communication about status.	0.25	47.50
2/16/2020	BJA Re: Chapaton - Continue communication with client about status of easements, waiting for legal descriptions.	0.25	47.50
2/24/2020	BJA Re: Chapaton - Client communications about status of legal descriptions.	0.25	47.50
2/26/2020	BJA Re: Chapaton - Communications with Vince Astorino and Marie Racine about status.	0.30	57.00
	For professional services rendered	<u>7.65</u>	<u>\$1,453.50</u>
	Previous balance		\$888.25
	Balance due		<u><u>\$2,341.75</u></u>

Timekeeper Summary

<u>Name</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Benjamin J. Aloia	7.65	190.00	\$1,453.50



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Kellie Kource	2. PHONE # 95337	3. DATE 3/16/20
4. SET ID VP 200317 kua		
5. POST DATE		



PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be issued to) CONSUMERS ENERGY	7. VENDOR NUMBER V01038
8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 204120905307
10. Invoice Date 3/9/2020	11. Invoice Amount 676.62

CHILD RECORD DETAIL INFORMATION				20. DIV	21. MISC	22. Sep CK	
General Ledger		Job Ledger					
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount
A	8210017M	92102	92102	WO18006	8 1/2 MILE RELIEF	AC# 1000 0754 2523, 217-3/9	676.62 GEN
B							
C							
D							
E							
F							
G							

REV 09/2018

23. Total: \$ **676.62**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:		30. Drain: 8 1/2 MILE RELIEF
26. Chief Deputy:		31. Project Balance: N/A
27. Engineers:		32. Staff Date: 3/24/2020
28. Managers:		33. Board Date: 4/13/2020
29. Coordinator:		34. Select For Pay Date:



Questions: Visit: ConsumersEnergy.com Call us: 800-805-0490	Amount Due: \$676.62
	Please pay by: April 03, 2020

▶ **Thank You** - We received your last payment of \$625.73 on **February 24, 2020**

▶ **Service Address:**
 23301 E 9 MILE RD
 SAINT CLAIR SHORES MI
 48080-0000

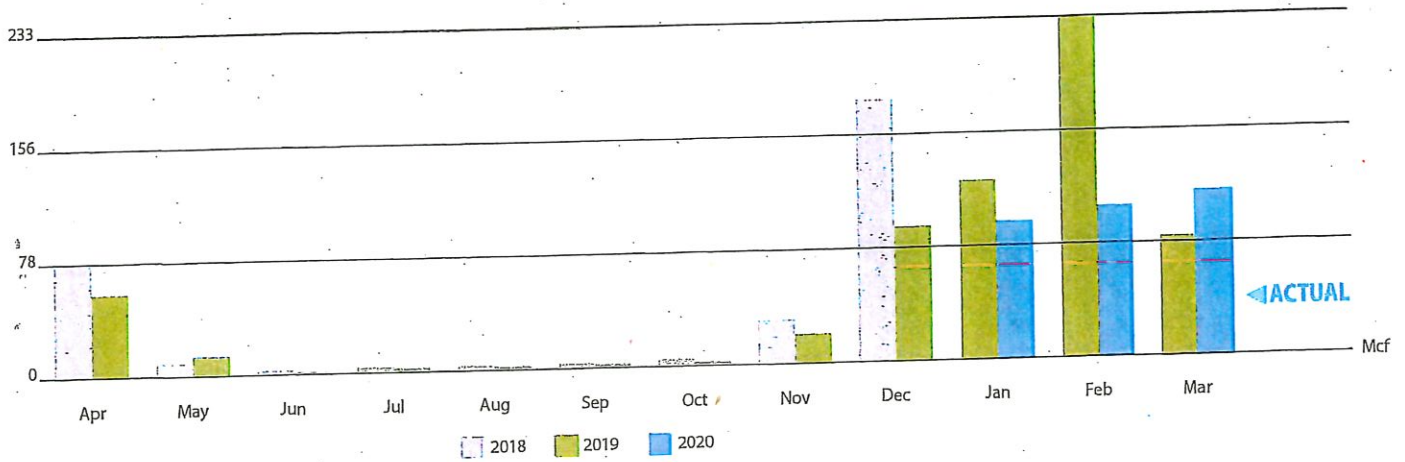
ATTN PUBLIC WORKS
 MACOMB COUNTY
 21777 DUNHAM RD
 CLINTON TOWNSHIP MI 48036-1005



March Energy Bill

Service dates: February 07, 2020 - March 09, 2020 (32 days)

Total Natural Gas Use (Mcf - thousand cubic feet)



March Natural Gas Use
113.1 Mcf

Cost per day:
\$21.14

Mcf per day:
3.534

Prior 12 months of gas use:
507 Mcf

For more information, visit ConsumersEnergy.com/ways2opay

In person
 Cash, check, card
 or money order
 Varies by authorized
 payment location
 Fee may apply



By mail
 Check, money order
 Consumers Energy
 Payment Center
 P.O. Box 740309
 Cincinnati, OH 45274-0309



Same-day payment
 866-328-9593
 Discover® MasterCard®
 Visa® or eCheck



Same-day payment
 ConsumersEnergy.com
 Discover® MasterCard®
 Visa® or eCheck



eLookbox
 Via ACH
 Secure electronic
 payment with
 emailed remittance



Auto-pay
 Checking or savings
 Auto-pay
 Discover® MasterCard®
 or Visa®
 (Eligibility varies)



Ways to pay your energy bill:



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/20/20
4. SET ID		
5. POST DATE		

VP200321 MA

6. VENDOR NAME (Check to be issued to) De-Cal, Inc.	7. VENDOR NUMBER V59694	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) WO9200252	10. Invoice Date 3/11/2020	11. Invoice Amount \$ 1,437.41
---------------------------------------------------------------	-----------------------------------	---------------------------	---------------------------------------------------------	--------------------------------------	------------------------------------------

PARENT RECORD INFORMATION

General Ledger			Job Ledger			OPTIONAL			CHILD RECORD DETAIL INFORMATION		
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK	
8210017M	9300	CC0004	9300	WO18006	8 1/2 Mile Relief	Job #92200252; heater repair	\$ 1,437.41	GEN			
20											

REV 09/2018

23. Total: \$ **1,437.41**

4. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: **Bm/nh** 30. Drain: 8 1/2 Mile Relief

26. Chief Deputy: _____ 31. Project Balance: N/A

27. Engineers: _____ 32. Staff Date: 3/24/2020

28. Managers: _____ 33. Board Date: 4/13/2020

29. Coordinator: _____ 34. Select For Pay Date: _____



DE-CAL, Inc.
 24659 Schoenherr Rd.
 Warren, MI 48089-4775
 Service Phone: 586-619-0281
 Service Fax: 586-486-5242

Service Invoice

Invoice #: WO9200252

Date: 03/11/2020

Billed To: Macomb County Chapaton
 23001 E. 9 Mile Rd.
 St. Clair Shores MI 48080

Location: Chaption Station & Martin RTB
 23001 E. 9 Mile Rd.
 St. Clair Shores MI 48080

Attn: Accounts Payable

Client PO#:	Employee:	Due Terms: 30DY
--------------------	------------------	------------------------

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		See Attached	1.0000	1,437.410000	1,437.41	N

Notes:

See work order for details

Chapaton

De-Cal Service Group is a division of De-Cal, Inc.

Please Make Checks Payable to: De-Cal, Inc.

Thank you for your prompt payment!

Amount Due: \$ 1,437.41



De - Cal Service Group

Commercial & Industrial HVAC Service, Building Automation

Chillers, Boilers, Piping & Plumbing

24659 Schoenherr Rd.

Warren, MI 48089

Phone: 586-619-0281

www.de-cal.com

Customer Name:	Chapaton Station	Date:		De-Cal Job #	9200252
Job Site Location:					
Description Of Work Performed:	The heater in the garage is not operating			PO #	
				Site Contact:	
LABOR HOURS					
<i>Labor Type</i>	<i>Dates, Technicians</i>	<i>Total Hours</i>		<i>Total</i>	
HVAC Technician		11.5	\$	1,293.75	
Controls Technician			\$	-	
Boiler Technician			\$	-	
Chiller Technician			\$	-	
OT			\$	-	
DT			\$	-	
Veh/Tool Allowance		1.0	\$	75.00	
MATERIALS/SUBCONTRACTORS UTILIZED					
<i>Unit #</i>	<i>Material Description</i>	<i>Part #</i>	<i>Quantity</i>	<i>Price</i>	
	Consumables		1.0	\$ 20.00	
	Caps		1.0	\$ 44.77	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
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				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
Total Work Order				Material Tax %	\$ 3.89
				Sell For	
				TOTAL BILLING:	\$ 1,437.41

Service Report

Service Report No : 9200252-1



Date: February 13, 2020

HVAC Service

Client P.O. #: N/A

Ready to Invoice/Work Complete

Site:

Chapton Station & Martin RTB
23001 E. 9 Mile Rd., St. Clair Shores , MI ,

Client:

Macomb County Chapton
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Reason for Call:

The heater in the garage is not operating.

Also (2) of the backflows are leaking and Chris said the water meter is spinning but they are not using water. We will need to look for a possible leak.

See Chris on site.

Scheduled for 2/13/2020

Description of Service:

Found both backflow preventers had a very small weep from the relief valve. Isolated each device and thoroughly cleaned the check valves and reliefs. Reassembled and tested. At this time both devices are operating properly without any leaks.

Worked with Cliff to identify and possible leaks that could cause the water meter to move. Isolated each water run separately and found a small leak in the shower located on B-2. Per customer, drained the supply lines and capped both the hot and cold water to the shower. Found the water meter would still spin even with every thing down stream valves off. Suspecting a possible bad water meter. Customer will contact the water department to investigate.

Technician Work

Name	Date	Reg. hrs	Prem. hrs
Rob Murphy	Feb 13, 2020	5	0

Service Report

Service Report No : 9200252-2



Date: February 13, 2020

Client P.O. #: N/A

HVAC Service

Ready to Invoice/Work Complete

Site:

Chapton Station & Martin RTB
23001 E. 9 Mile Rd., St. Clair Shores , MI

Client:

Macomb County Chapton
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Reason for Call:

The heater in the garage is not operating.

Also (2) of the backflows are leaking and Chris said the water meter is spinning but they are not using water. We will need to look for a possible leak.

See Chris on site.

Scheduled for 2/13/2020

Description of Service:

2-13 arrived on site, checked in with Pete, he informed me that unit htr, on the day before was running wild , wouldn't cycle on or off properly,they said that there was smoke up by the ceiling. wouldn't shut off.

I visually inspected heat exchanger, burners, fan mtr, controls and limits, T-stat and wiring, removed flue piping, could not find anything visually, on components, did adjust flue piping so unit was more level. Started unit up, watched ignition cycle, checked good, good flame, unit got up to temp, fan cycled on, checked amp draw, checked good. Observed unit reach set point, flame cycled off, fan ran till limit was satisfied, turned off. could not duplicate call. Went and helped Rob on water leak and meter issue, checked back a couple times to see if unit was working properly, checked good

Picked up parts from Satterlund to cap off lines. PO# 2000464 4- 1/2" pro press caps

Informed Pete of findings on unit htr

see Rob Murphy's report for other details on water leak issues

Technician Work

Name	Date	Reg. hrs	Prem. hrs
Cliff Wilkerson	Feb 13, 2020	6.5	0



DE-CAL, Inc.
 24659 Schoenherr Rd.
 Warren, MI 48089-4775
 Service Phone: 586-619-0281
 Service Fax: 586-486-5242

Service Invoice

Invoice #: WO90020105-1

Date: 03/23/2020

Billed To: Macomb County Chapaton
 23001 E. 9 Mile Rd.
 St. Clair Shores MI 48080

Location: Macomb Chapaton Pumping
 23001 E. 9 Mile Rd.
 St. Clair Shores MI 48080

Attn: Accounts Payable

Client PO#:	Employee: Cliff Wilkerson	Due Terms: 30DY
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Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		See Attached	1.0000	658.700000	658.70	N

Notes:

See work order for details

Chapaton

De-Cal Service Group is a division of De-Cal, Inc.

Please Make Checks Payable to: De-Cal, Inc.

Thank you for your prompt payment!

Amount Due: \$	658.70
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T&M

Service Report

Service Report No : 900-20-105-1-1



Date: March 12, 2020

Client P.O. #: N/A

HVAC Service

Ready to Invoice/Work Complete

Site:

Macomb Chapaton Pumping
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Client:

Macomb County Chaption
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Reason for Call:

Spring PM T&M

Description of Service:

3-12 arrived on site, performed Preventive maintenance on all H.V.A.C equipment, changed out filters, checked belts, pulleys, sheaves, bearings for wear/ damage, greased bearings were necessary, checked operation of 3 A.H.U's, 8- radiant htrs., 12- gas fired unit htrs., 2 furnaces, checked boiler for any faults or leaks, checked good, checked out with Pete

Technician Work

Name	Date	Reg. hrs	Prem. hrs
Cliff Wilkerson	Mar 12, 2020	5	0



ONESolution
 ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

Mark A. Hackel
 County Executive

1. PREPARED BY (Please Type) Kellie Kource	2. PHONE # 95337	3. DATE 3/16/20
4. SET ID VP200317KUA		5. POST DATE

6. VENDOR NAME (Check to be issued to) DTE Energy	7. VENDOR NUMBER V01270	8. ADDR CODE 08	9. Invoice No (MAX = 16 CHARACTERS) 20-133	10. Invoice Date 3/9/2020	11. Invoice Amount \$ 7,151.28
-------------------------------------------------------------	-----------------------------------	---------------------------	------------------------------------------------------	-------------------------------------	------------------------------------------

PARENT RECORD INFORMATION

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL		19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)				
A	8210017M	92101	CC0004	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 2/10/20 - 3/9/20	\$ 7,151.28	GEN		
B											
C											
D											
E											
F											
G											

REV 09/2018

23. Total: \$ **7,151.28**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: *[Signature]*

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: *[Signature]*

30. Drain: **8 1/2 Mile Relief**

31. Project Balance: **N/A**

32. Staff Date: **3/24/2020**

33. Board Date: **4/13/2020**

34. Select For Pay Date: _____

910000053785

00000715128 B



Payment Coupon

20-133

Account Number	910000053785
Due Date:	April 03, 2020
Total Due:	\$7,151.28

MACOMB COUNTY
MACOMB COUNTY DRAIN COMM
21777 DUNHAM RD
CLINTON TWP MI 48036-1005

Mail Payments to:
DTE Energy
P.O. Box 630795
Cincinnati OH 45263-0795

Please detach and return coupon with account number on check. Agencies are not authorized to accept payment of this bill.

Account Information

MACOMB COUNTY
MACOMB COUNTY DRAIN COMM
21777 DUNHAM RD
CLINTON TWP, MI 48036

Account Number	9100-0005-3785
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DTE-Energy Federal ID No.	38-3217752
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Programs you are enrolled in:

How to contact us:

Power Outage	See Detail Charges
Billing Inquiry	1-734-397-4309

Please make any inquiry or complaint about this bill to DTE Energy before the Due Date.
DTE Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Important Information



Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 02/12/2020	13,224.02
Payment(s) and Credit(s)	- 13,224.02
Remaining Balance	\$0.00

Current Charges

Service Location	Item	Service Type	Rate	Bill Period	Amount
23001 E 9 Mile Rd	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	02/10 - 03/09/20	7,151.28
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$7,151.28

Amount Due on or before Due Date of 04/03/2020 **\$7,151.28**

Your current charges are due on April 3, 2020. A 2% late payment charge will be applied if paid after the due date.



Invoice

Bill-to: 1091920
 COUNTY OF MACOMB
 PUBLIC WORKS COMMISSIONERS OFFICE
 23001E E 9 MILE RD
 SAINT CLAIR SHORES MI 48080
 Tel. Number: 5864695260

Billing No.: 904386482
 Billing Date: 03/16/2020
 Sales Order/Contract: 40402585 / 1
 Service Order No.: 52461248
 Service/Work Date: 03/16/2020
 Customer No.: 1091920
 Customer PO No.: PETE TROMBLEY
 Incoterms(part 1): FOB Free on board
 Incoterms(part 2): Free on board
 Payment Terms: within 30 days Due net
 Sales Rep: HEATHER BASTUBA

Remit-to address:
 Evoqua Water Technologies LLC
 28563 Network Place
 Chicago, IL 60673-1285
 United States
 Telephone# 1-800-466-7873

Site Address: 0012056589
 MACOMB PUBLIC WORKS
 LABORATORY CLOSET SYS3 DETROIT
 23001 9 MILE RD
 SAINT CLAIR SHORES MI 48080-1576

Line Item	Material Description	Old Part Number	Origin	Qty./UOM	Unit Price	Total Price	Tax	Total
						Currency USD	Currency USD	Currency USD
000010	W5DIRAC0079FSP SDI REACT CARBON .79CF FBGLS STD PO ECCN: EAR99 HTS: 8421990040	DIRAC0079FS P	US	1 EA	239.20	239.20	0.00	239.20
000020	W5TDIMB10079FSP SDI MIXBED1 .79CF FBGLS STD POT ECCN: EAR99 HTS: 8421990040	DIMB10079FS P	US	2 EA	242.65	485.30	0.00	485.30
000030	W2T159663 CART 9.75" 1UM CODEK432 F PP STRNG WOUN HTS: 8421990040	FCPSF09011P	US	1 EA	158.70	158.70	0.00	158.70
000040	W3TSP4276 FUEL/ENERGY Surchage ECCN: EAR99			1 EA	20.00	20.00	0.00	20.00
000050	W3TSP4255 CHEMICAL SURCHARGE; SMALL SDI TANKS ECCN: EAR99			2 EA	9.96	19.92	0.00	19.92

Net Total

923.12 USD

Chapaton



Invoice

Billing No.: 904386482
Billing Date: 03/16/2020
Service/Work Date: 03/16/2020

<i>Shipping and Handling</i>	<i>0.00 USD</i>
<i>State Tax 0.000 %</i>	<i>0.00 USD</i>
<i>County Tax 0.000 %</i>	<i>0.00 USD</i>
<i>City Tax 0.000 %</i>	<i>0.00 USD</i>
<i>Dist/Other Tax 0.000 %</i>	<i>0.00 USD</i>
Total Amount Including Tax	923.12 USD

To pay by credit card, please call 1-978-614-7034
If paid after 04/15/2020, please pay 936.97 USD

Destination Control Statement: the above commodities, software or technology are being sold pursuant to United States Export Regulations. Export, re-export or other diversion contrary to law is prohibited. These items are not to be used directly or indirectly in prohibited nuclear, chemical/biological or missile weapons activities.



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/5/20
4. SET ID VP200305NA		
5. POST DATE		

PARENT RECORD INFORMATION				
6. VENDOR NAME (Check to be issued to) Fishbeck	7. VENDOR NUMBER V44063	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 390171	10. Invoice Date 3/2/2020
			11. Invoice Amount \$ 1,960.22	

CHILD RECORD DETAIL INFORMATION										
General Ledger		Job Ledger		OPTIONAL						
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
8210017M	80138	CC0004	80138	WO19005	8 1/2 Mile Relief	Pjt #190051 through 2/21/20	\$ 149.41	GEN		
8210017M	80138	CC0004	80138	WO19105	8 1/2 Mile Relief	Pjt #190051 (Task 1B) through 2/21/20	\$ 1,810.81	GEN		0
35										

23. Total: \$ 1,960.22

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
As Needed Services

25. Finance Officer: <i>blm</i>	30. Drain: 8 1/2 Mile Relief
26. Chief Deputy: <i>psb</i>	31. Project Balance: \$121,218.11
27. Engineers: <i>ua</i>	32. Staff Date: 3/10/2020
28. Managers: <i>ua</i>	33. Board Date: 4/13/2020
29. Coordinator: <i>kk</i>	34. Select For Pay Date:



Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
 Remit checks to: 1515 Arboretum Drive, SE, Grand Rapids, Michigan 49546
 Remittance Advice: accounts.receivable@fishbeck.com
 616.575.3824
 Federal I.D. No. 38-1841857 | Incorporated

Attention: Mr Vincent Astorino
Macomb County Public Works Commissioner
 21777 Dunham Road
 Clinton Township, MI 48036
 United States

Invoice : 390171
Invoice Date : 3/2/2020
Project : 190051
Project Name : Macomb Co PW/8.5 As-needed Engineering
Bill Term : 1

For Professional Services Rendered Through 2/21/2020

WO19005

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1 - Genral As Needed	67,724.50	67,724.50	0.00	0.00	0.00
1.A - Task 1a - Chapaton Structural Study	50,663.00	12,796.76	37,866.24	37,866.24	0.00
1.B - Task 1b - 9 Mile Pipe Repair (WO19105)	26,256.00	7,332.66	20,734.15	18,923.34	1,810.81
<i>Rate Labor</i>	87.50				
<i>Expenses</i>	1,723.31				
1.C - Task 1c - In-System Storage As-Needed	5,250.00	5,250.00	0.00	0.00	0.00
1.D - Task 1d - Office Improvements	21,393.90	0.00	21,393.90	21,393.90	0.00
1.E - Task 1e - Maps	7,500.00	5,828.00	1,821.41	1,672.00	149.41
<i>Rate Labor</i>	37.00				
<i>Expenses</i>	112.41				
1.F - Task 1f - Chapaton Sampling Plan	4,065.60	0.00	4,065.60	4,065.60	0.00
1.G - Task 1g - Chapaton Survey	2,084.25	0.00	2,084.25	2,084.25	0.00
1.H - Task 1h - Chapaton Bar Screen Hydraulic Isolation	2,976.75	0.00	2,976.75	2,976.75	0.00
1.I - Task 1i - Chapaton Environmental Study	9,730.00	1,208.41	8,521.59	8,521.59	0.00
1.j - Task 1j - Chapaton Flow Meter Drawings	3,000.00	320.00	2,680.00	2,680.00	0.00
1.k - Task 1k - Chapaton High Water Protection	14,175.00	14,175.00	0.00	0.00	0.00
1.l - Task 1l - Chapaton 3D Animation	4,000.00	443.00	3,557.00	3,557.00	0.00
1.M - Task 1m - Chapaton Ground Penetrating Radar	4,600.00	4,600.00	0.00	0.00	0.00
1.N - Task 1n - Chapaton Div 01 Specs	3,500.00	3,500.00	0.00	0.00	0.00

WO19005

Current Billings	<u>1,960.22</u>
Amount Due This Bill	<u>1,960.22</u>

1.B - Task 1b - 9 Mile Pipe Repair (WO19105)

Rate Labor	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<i>Class</i>			
Senior Engineer	0.50	175.0000	87.50
Total Rate Labor			87.50
Expenses		<u>Cost</u>	<u>Multiplier</u>
<i>Account / Vendor</i>			<u>Amount</u>
Subconsultant			
NTH Consultants Ltd		1,641.25	1.05
Total Expenses			1,723.31
Total Bill Task: 1.B - Task 1b - 9 Mile Pipe Repair (WO19105)			1,810.81

1.E - Task 1e - Maps

Rate Labor	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<i>Class</i>			
Production Support	0.50	74.0000	37.00
Total Rate Labor			37.00
Expenses		<u>Cost</u>	<u>Multiplier</u>
<i>Account / Vendor</i>			<u>Amount</u>
Reproduction			
Engineering Reproduction Inc		107.06	1.05
Total Expenses			112.41
Total Bill Task: 1.E - Task 1e - Maps			149.41

Total Project: 190051 - Macomb Co PW/8.5 As-needed Engineering

1,960.22

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	WO19005
PROJECT NUMBER	WWS-2019-001
PROJECT NAME	As-Needed General Engineering Services
DRAINAGE DISTRICT	Eight and One-Half Mile Relief Drain Drainage District
CONSULTANT NAME	Fishbeck
INVOICE DATE	2/29/2020
INVOICE START DATE	1/25/2020
INVOICE END DATE	2/21/2020
ORIGINAL CONTRACT AMOUNT	\$ 151,919.00
CHANGE ORDER TOTAL	\$ 75,000.00
Change Order No. 1	\$ 75,000.00
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 226,919.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 103,740.67
TOTAL AMOUNT DUE THIS INVOICE	\$ 1,960.22
TOTAL BUDGET REMAINING	\$ 121,218.11
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	3/5/20
4. SET ID		5. POST DATE
VP200305MA		

PARENT RECORD INFORMATION		
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE
Fishbeck	V44063	01
9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
389934	3/2/2020	\$ 2,470.49

General Ledger		Job Ledger		OPTIONAL		19. Amount	20. DIV	21. MISC	22. Sep CK
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)			
A	8210017M	80138	80138	WO19082	8 1/2 Mile Relief	Pjt #191498 thru 2/21/20	\$ 2,470.49	GEN	
B									
C									
D									
E									
F									
G									

23. Total: \$ 2,470.49

REV/09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Chapaton Building Renovation

25. Finance Officer:	<i>bthm</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AB</i>	31. Project Balance:	\$2,908.86
27. Engineers:	<i>us</i>	32. Staff Date:	3/10/2020
28. Managers:	<i>JK</i>	33. Board Date:	4/13/2020
29. Coordinator:		34. Select For Pay Date:	



Payment Options
 Remit Wire/ACH payments to Acct: 100094457
 ABA: 072413829
 Remit checks to: 1515 Arboretum Drive, SE, Grand Rapids, Michigan 49546
 Remittance Advice: accounts.receivable@fishbeck.com
 616.575.3824
 Federal I.D. No. 38-1841857 | Incorporated

Attention: Mr Vincent Astorino
 Macomb County Public Works Commissioner
 21777 Dunham Road
 Clinton Township, MI 48036
 United States

Invoice: 389934
Invoice Date: 3/2/2020
Project: 191498
Project Name: Macomb Co PW/Chapaton Bldg Renovation
Bill Term: 1

For Professional Services Rendered Through 2/21/2020

WO19082 WWS-2019-016

Billings		Fee	% Complete	To Date	Previous	Current
		86,000.00	96.62	83,091.17	80,620.68	2,470.49
Current Billings						2,470.49
Amount Due This Bill						2,470.49



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	3/18/20
4. SET ID		5. POST DATE
V P 200318 MUA		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to)	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date
JCI JONES CHEMICALS INC	01	816103	3/17/2020
7. VENDOR NUMBER	11. Invoice Amount		19. Amount
V65297	\$		4,072.58

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger		Job Ledger		OPTIONAL					
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)			
A	8210017M	72650	CC0004	72650	WO18006	8 1/2 Mile Relief	Order #603945, 3/17/20	19. Amount	20. DIV	21. MISC
								\$ 4,072.58	GEN	
B										
C										
D										
E										
F										
G										

23. Total: \$ 4,072.58

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>JMM</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	3/24/2020
28. Managers:	<i>[Signature]</i>	33. Board Date:	4/13/2020
29. Coordinator:		34. Select For Pay Date:	



www.jcichemicals.com

INVOICE

*** ORIGINAL ***
 JCI JONES CHEMICALS, INC..
 RIVERVIEW BRANCH LOCATION
 18000 PAYNE AVENUE
 RIVERVIEW, MI 48192
 Phone: (734) 283-0677
 Fax: (734) 283-0979
 email: cs@jcichem.com

Inv Date	Invoice #
03/17/2020	816103
Date Shipped	Order/BOL #
03/17/2020	603945

Customer Number
 21543215

S MACOMB COUNTY
 O ATTN: ACCTS PAYABLE
 L 23001 9 MILE ROAD
 D Saint Clair Shores, MI 48080-
 T USA
 O

S ID #: 1
 H CHAPATON PUMPING STATION
 I 23001 NINE MILE RD
 P ST CLAIR SHORES, MI 48080-
 T USA
 O

Customer PO #		FOB Remark	Freight Terms	Sales ID	
Release #		Ship Via	Terms	Discount Due Date	
VERBAL-CHAPATON		Destination	Delivered	NORTH	
		Harold Marcu	N 30	4/16/2020	
			Due Date	4/16/2020	
Units	Package	Product Name	Total Quantity	Unit Price	Amount
4,507.00	1 Gal Bulk	HYPOCHLORITE SOLUTION, SS150 1201-001 BULK (\$85 Stop Fee) (+ fsc)	4,507.0000/Gal	0.9000 /Gal	4,056.30
General Remarks:		<> EMAIL INVOICE TO: michelle.houvener@macombgov.org <> OUTSIDE CARRIER: HAROLD MARCUS NET WEIGHT: 45560 FSC			
		Fuel Surcharge			16.28

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Total: **4,072.58**

Remit To: **JCI Jones Chemicals, Inc.**
MSC# 729
PO BOX 830674
Birmingham, AL 35283-0674 USA

PLEASE PAY
THIS AMOUNT





ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/2/20
4. SET ID NP200303MA		
5. POST DATE 0		

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to) JF Cavanaugh	7. VENDOR NUMBER V67460	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) WO18350 Est 1	10. Invoice Date 2/26/2020	11. Invoice Amount \$ 13,500.00
---------------------------------------------------------------	-----------------------------------	---------------------------	-------------------------------------------------------------	--------------------------------------	-------------------------------------------

CHILD RECORD DETAIL INFORMATION

General Ledger		Job Ledger		OPTIONAL		21. MISC	22. Sep CK	
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	15. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV
8210017M	80126	CC0004	80126	WO18350	8 1/2 Mile Relief	Pump & Screen Imprvmts - 2/5-2/29	\$ 13,500.00	GEN
45								
23. Total: \$ 13,500.00								

REV 09/2018

4. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

Record retainage for Est #1 - \$1,500. Total retainage to date \$1,500

25. Finance Officer:	<i>AM</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AO</i>	31. Project Balance:	\$1,188,972.00
27. Engineers:		32. Staff Date:	3/10/2020
28. Managers:	<i>CA</i>	33. Board Date:	4/13/2020
29. Coordinator:	<i>CR</i>	34. Select For Pay Date:	

W018350
V67460

Contractor's Application for Payment

Owner:	<u>8 1/2 Mile Relief Drain Drainage District</u>	Owner's Project No.:	<u>WWS-2019-022</u>
Engineer:	<u>HRC</u>	Engineer's Project No.:	<u>20180363</u>
Contractor:	<u>J.F. Cavanaugh</u>	Contractor's Project No.:	<u>-</u>
Project:	<u>Chapaton Pump and Screen Improvements</u>		
Contract:	<u></u>		
Application No.:	<u>1</u>	Application Date:	<u>2/29/2020</u>
Application Period:	From <u>2/5/2020</u>	to	<u>2/29/2020</u>

1. Original Contract Price	\$	1,162,472.00
2. Net change by Change Orders	\$	40,000.00
3. Current Contract Price (Line 1 + Line 2)	\$	1,202,472.00
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$	15,000.00
5. Retainage		
a. <u>10%</u> X \$ <u>15,000.00</u> Work Completed	\$	1,500.00
b. <u>10%</u> X \$ <u>-</u> Stored Materials	\$	-
c. Total Retainage (Line 5.a + Line 5.b)	\$	1,500.00
6. Amount eligible to date (Line 4 - Line 5.c)	\$	13,500.00
7. Less previous payments (Line 6 from prior application)		
8. Amount due this application	\$	13,500.00
9. Balance to finish, including retainage (Line 3 - Line 4)	\$	1,187,472.00

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

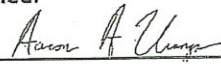
- (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
- (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and
- (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: J.F. Cavanaugh

Signature: 

Date: 2/26/2020

Recommended by Engineer

By: Aaron Uranga 
Title: Associate
Date: 2/26/2020

Approved by Owner

By: _____
Title: _____
Date: _____

Approved by Funding Agency

By: _____
Title: _____
Date: _____

By: _____
Title: _____
Date: _____

1188972.07

Progress Estimate - Unit Price Work

Contractor's Application for Payment

Owner: 8 1/2 Mile Relief Drain Drainage District
 Engineer: HRC
 Contractor: J.F. Cavanaugh
 Project: Chapaton Pump and Screen Improvements
 Contract:

Owner's Project No.: WWS-2019-022
 Engineer's Project No.: 20180363
 Contractor's Project No.:

Application No.: 1 Application Period: From 02/05/20 to 02/29/20 Application Date: 02/29/20

A Bid Item No.	B Description	C Item Quantity	D Units	E Unit Price (\$)	F Value of Bid Item (C X E) (\$)	G Work Completed		I Materials Currently Stored (not in G) (\$)	J Work Completed and Materials Stored to Date (H + I) (\$)	K % of Value of Item (I / F) (%)	L Balance to Finish (F - J) (\$)
						H Estimated Quantity Incorporated in the Work	F Value of Work Completed to Date (E X G) (\$)				
Original Contract											
1	Bonds, Insurance and Mobilization (10% Max)	1	LS	\$ 60,500.00	60,500.00	0.25	15,000.00	-	15,000.00	25%	45,500.00
2	Pre-Construction Audio-Visual	1	LS	\$ 2,500.00	2,500.00	-	-	-	-	0%	2,500.00
3	Flow Diversion During Construction Complete - South Side	1	LS	\$ 10,650.00	10,650.00	-	-	-	-	0%	10,650.00
4	Flow Diversion During Construction Complete - North Side	1	LS	\$ 10,650.00	10,650.00	-	-	-	-	0%	10,650.00
5	New Stop Logs, Guides and Related Structural Improvements -	1	LS	\$ 49,950.00	49,950.00	-	-	-	-	0%	49,950.00
6	New Stop Logs, Guides and Related Structural Improvements -	1	LS	\$ 86,250.00	86,250.00	-	-	-	-	0%	86,250.00
7	Remove Existing Bar Rack and Install New - South Side	1	LS	\$ 158,620.00	158,620.00	-	-	-	-	0%	158,620.00
8	Remove Existing Bar Rack and Install New - North Side	1	LS	\$ 158,620.00	158,620.00	-	-	-	-	0%	158,620.00
9	Access Hatch Revisions in Screen Room	1	LS	\$ 89,433.00	89,433.00	-	-	-	-	0%	89,433.00
10	Guardrail Revision in Screen Room	1	LS	\$ 16,638.00	16,638.00	-	-	-	-	0%	16,638.00
11	I&C Upgrades in Screen Room	1	LS	\$ 12,618.00	12,618.00	-	-	-	-	0%	12,618.00
12	Core Through Wet Well Wall	1	LS	\$ 3,960.00	3,960.00	-	-	-	-	0%	3,960.00
13	Concrete Collar in Wet Well	1	LS	\$ 13,712.00	13,712.00	-	-	-	-	0%	13,712.00
14	Through Wall Pipe Penetration	1	LS	\$ 6,203.00	6,203.00	-	-	-	-	0%	6,203.00
15	North Dry Well Demolition Work	1	LS	\$ 24,863.00	24,863.00	-	-	-	-	0%	24,863.00
16	Install new Owner Furnished Pump	1	LS	\$ 9,843.00	9,843.00	-	-	-	-	0%	9,843.00
17	Electrical Upgrades for Added Pump	1	LS	\$ 46,247.00	46,247.00	-	-	-	-	0%	46,247.00
18	New Concrete Pump Bases	2	EA	\$ 6,953.00	13,906.00	-	-	-	-	0%	13,906.00
19	Reconfigure Existing Pump	1	LS	\$ 5,200.00	5,200.00	-	-	-	-	0%	5,200.00
20	New Piping, valves and fittings, in Wet Well	1	LS	\$ 212,044.00	212,044.00	-	-	-	-	0%	212,044.00
21	Pressure gauges and assemblies	4	EA	\$ 660.00	2,640.00	-	-	-	-	0%	2,640.00
22	Jib Crane Addition in North Dry Well	1	LS	\$ 29,355.00	29,355.00	-	-	-	-	0%	29,355.00
23	Electrical Upgrade for Jib Crane	1	LS	\$ 3,966.00	3,966.00	-	-	-	-	0%	3,966.00
24	Access Stairway	1	LS	\$ 48,204.00	48,204.00	-	-	-	-	0%	48,204.00
25	Access Platform Revisions	1	LS	\$ 11,330.00	11,330.00	-	-	-	-	0%	11,330.00
26	New Pressure Manholes at Elevation 551 - Complete	4	EA	\$ 8,135.00	32,540.00	-	-	-	-	0%	32,540.00
27	Core Infill at Elevation 551	1	LS	\$ 1,030.00	1,030.00	-	-	-	-	0%	1,030.00
28	Core at Patch Repair Type 1	28	EA	\$ 200.00	5,600.00	-	-	-	-	0%	5,600.00
29	Pressure Injection of Cracks Type 2A (Non-Weeping)	150	LF	\$ 50.00	7,500.00	-	-	-	-	0%	7,500.00
30	Pressure Injection of Cracks Type 2B (Weeping)	50	LF	\$ 50.00	2,500.00	-	-	-	-	0%	2,500.00
31	Concrete Surface Repair Type 3 - Up to 1" Depth	16	SF	\$ 400.00	6,400.00	-	-	-	-	0%	6,400.00
32	Concrete Surface Repair Type 3 - 1" to 3" Depth	10	SF	\$ 400.00	4,000.00	-	-	-	-	0%	4,000.00
33	Concrete Surface Repair Type 3 - Greater than 3"	5	SF	\$ 400.00	2,000.00	-	-	-	-	0%	2,000.00
34	Existing Guardrail Removal Repair Type 4	15	EA	\$ 200.00	3,000.00	-	-	-	-	0%	3,000.00
35	Allowance for MCET Work at PLC	1	ALLOW	\$ 10,000.00	10,000.00	-	-	-	-	0%	10,000.00
Original Contract Totals					\$ 1,162,472.00		\$ 15,000.00	\$ -	\$ 15,000.00	1%	\$ 1,147,472.00

Unit Price

Progress Estimate - Unit Price Work

Contractor's Application for Payment

Owner: 8 1/2 Mile Relief Drain Drainage District
 Engineer: HRC
 Contractor: J.F. Cavanaugh
 Project: Chapaton Pump and Screen Improvements
 Contract: _____

Owner's Project No.: WWS-2019-022
 Engineer's Project No.: 20180363
 Contractor's Project No.: -

Application No.: 1		Application Period: From 02/05/20 to 02/29/20		Application Date: 02/29/20								
A	B	C	D	E	F	G	H	I	J	K	L	
Bid Item No.	Description	Item Quantity	Units	Contract Information		Work Completed			Materials Currently Stored (not in G) (\$)	Work Completed and Materials Stored to Date (H + I) (\$)	% of Value of Item (I / F) (%)	Balance to Finish (F - J) (\$)
				Unit Price (\$)	Value of Bid Item (C X E) (\$)	Estimated Quantity Incorporated in the Work	Value of Work Completed to Date (E X G) (\$)					
Change Orders												
1	Flash Boards	1.00	LS	40,000.00	40,000.00		-		-	0%	40,000.00	
					Change Order Totals	\$ 40,000.00		\$ -	\$ -	0%	\$ 40,000.00	
Original Contract and Change Orders												
					Project Totals	\$ 1,202,472.00		\$ 15,000.00	\$ -	1%	\$ 1,187,472.00	

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

TO OWNER: PROJECT: APPLICATION NO: APPLICATION DATE: February 26, 2020
 8 1/2 Mile Relief Drain Drainage Distri Chapaton Pump Station Dry Weather Pump CP 1

FROM CONTRACTOR: VIA ARCHITECT: PERIOD TO: 29-Feb-20
 J.F. Cavanaugh Company Hubbell, Roth and Clark, Inc.
 20750 Sunnydale, Farm. Hls. MI 48336 535 Griswold Street, Suite 1650, Detroit MI 48226



CONTRACT FOR: Warren WWTP Screen Replacement CONTRACT DATE 5-Feb-20

DISTRIBUTION TO:
 OWNER:
 ARCHITECT: HRC
 CONTRACTOR: J.F. Cavanaugh Co.

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 1,162,522.00
2. Net change by Change Orders \$ 0.00
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 1,162,522.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ 15,000.00
5. RETAINAGE:
 - a. 10 % of Completed Work \$ 1,500.00
 - b. % of Stored Material \$
- 49 Total Retainage (Lines 5a + 5b or Total in Column I of G703) \$ 1,500.00
6. TOTAL EARNED LESS RETAINAGE \$ 13,500.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 0.00
8. CURRENT PAYMENT DUE \$ 13,500.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ 1,149,022.00

CONTRACTOR: 
 By:  Date: 2/26/2020
 State of: Michigan County of: Wayne
 Notary Public:
 My Commission expires:

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
 ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	
Total approved this Month	\$0.00	
TOTALS	\$0.00	
NET CHANGES by Change Order		

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee.

CONTINUATION SHEET

AIA DOCUMENT G703

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: **I**
 APPLICATION DATE: **12-Feb-20**
 PERIOD TO: **29-Feb-20**

Project: **Chapaton Pump Station Dry Weather Pump and Screen Improvements**

ITEM NO.	DESCRIPTION OF WORK	C UNITS	D UNIT PRICE	E EXTENSION	F WORK COMPLETED FROM PREVIOUS APPLICATION	G MATERIALS PRESENTLY STORED	H TOTAL COMPLETED AND STORED TO DATE	I %	J BALANCE TO FINISH	K RETAINAGE (IF VARIABLE RATE)
1	Bonds, Insurance, Mobilization	1	\$ 60,500.00	\$ 60,500.00	-	\$ 15,000.00	\$ 15,000.00	24.79%	\$ 45,500.00	\$ -
2	Pre-Construction Audio Video	1	\$ 2,500.00	\$ 2,500.00	-	-	-	0.00%	\$ 2,500.00	\$ -
3	Flow Diversion During Construction - South Side	1	\$ 10,650.00	\$ 10,650.00	-	-	-	0.00%	\$ 10,650.00	\$ -
4	Flow Diversion During Construction - North Side	1	\$ 10,650.00	\$ 10,650.00	-	-	-	0.00%	\$ 10,650.00	\$ -
5	New Stop Logs, Guides, Realted Str - South Side	1	\$ 49,950.00	\$ 49,950.00	-	-	-	0.00%	\$ 49,950.00	\$ -
6	New Stop Logs, Guides, Realted Str - North Side	1	\$ 86,250.00	\$ 86,250.00	-	-	-	0.00%	\$ 86,250.00	\$ -
7	Remove Existing Bar Rack, Install New - South Side	1	\$ 158,260.00	\$ 158,260.00	-	-	-	0.00%	\$ 158,260.00	\$ -
8	Remove Existing Bar Rack, Install New - North Side	1	\$ 89,483.00	\$ 89,483.00	-	-	-	0.00%	\$ 89,483.00	\$ -
9	Access Revisions in Screen Room	1	\$ 16,638.00	\$ 16,638.00	-	-	-	0.00%	\$ 16,638.00	\$ -
10	Guardrail Revision in Screen Room	1	\$ 12,618.00	\$ 12,618.00	-	-	-	0.00%	\$ 12,618.00	\$ -
11	I&C Upgrades in Screen Room	1	\$ 3,960.00	\$ 3,960.00	-	-	-	0.00%	\$ 3,960.00	\$ -
12	Core Through Wet Well Wall	1	\$ 13,712.00	\$ 13,712.00	-	-	-	0.00%	\$ 13,712.00	\$ -
13	Concrete Collar in Wet Well	1	\$ 6,203.00	\$ 6,203.00	-	-	-	0.00%	\$ 6,203.00	\$ -
14	Through Wall Pipe Penetration	1	\$ 24,863.00	\$ 24,863.00	-	-	-	0.00%	\$ 24,863.00	\$ -
15	North Dry Well Demolition Work	1	\$ 9,843.00	\$ 9,843.00	-	-	-	0.00%	\$ 9,843.00	\$ -
16	Install New Owner Furnished Pump	1	\$ 46,247.00	\$ 46,247.00	-	-	-	0.00%	\$ 46,247.00	\$ -
17	Electrical Upgrades for Added Pump	1	\$ 13,906.00	\$ 13,906.00	-	-	-	0.00%	\$ 13,906.00	\$ -
18	New Concrete Pump Bases	1	\$ 5,200.00	\$ 5,200.00	-	-	-	0.00%	\$ 5,200.00	\$ -
19	Reconfigure Existing Pump	1	\$ 212,044.00	\$ 212,044.00	-	-	-	0.00%	\$ 212,044.00	\$ -
20	New Piping, valves, and fittings, in Wet Well	1	\$ 2,640.00	\$ 2,640.00	-	-	-	0.00%	\$ 2,640.00	\$ -
21	Pressure Gauges and Assemblies	1	\$ 29,355.00	\$ 29,355.00	-	-	-	0.00%	\$ 29,355.00	\$ -
22	Jib Crane Addition in North Dry Well	1	\$ 3,966.00	\$ 3,966.00	-	-	-	0.00%	\$ 3,966.00	\$ -
23	Electrical Upgrade for Jib Crane	1	\$ 48,204.00	\$ 48,204.00	-	-	-	0.00%	\$ 48,204.00	\$ -
24	Access Stairway	1	\$ 11,330.00	\$ 11,330.00	-	-	-	0.00%	\$ 11,330.00	\$ -
25	Access Platform Revisions	1	\$ 32,540.00	\$ 32,540.00	-	-	-	0.00%	\$ 32,540.00	\$ -
26	New Pressure Manholes at EL 551 - Complete	1	\$ 1,030.00	\$ 1,030.00	-	-	-	0.00%	\$ 1,030.00	\$ -
27	Core Fill at Elevation 551	28	\$ 200.00	\$ 5,600.00	-	-	-	0.00%	\$ 5,600.00	\$ -
28	Core at Patch Repair Type 1	150	\$ 50.00	\$ 7,500.00	-	-	-	0.00%	\$ 7,500.00	\$ -
29	Pressure Inj of Cracks Type 2A (Non-Weeping)	50	\$ 50.00	\$ 2,500.00	-	-	-	0.00%	\$ 2,500.00	\$ -
30	Pressure Injection of Cracks Type 2A (Weeping)	16	\$ 400.00	\$ 6,400.00	-	-	-	0.00%	\$ 6,400.00	\$ -
31	Concrete Surface Repair Type 3 - Up to 1" Depth	10	\$ 400.00	\$ 4,000.00	-	-	-	0.00%	\$ 4,000.00	\$ -
32	Concrete Surface Repair Type 3 - 1" to 3" Depth	5	\$ 400.00	\$ 2,000.00	-	-	-	0.00%	\$ 2,000.00	\$ -
33	Conc Surface Repair Type 3 - Greater than 3" Depth	15	\$ 200.00	\$ 3,000.00	-	-	-	0.00%	\$ 3,000.00	\$ -
34	Existing Guardrail Removal Repair Type 4	1	\$ 10,000.00	\$ 10,000.00	-	-	-	0.00%	\$ 10,000.00	\$ -
35	Allowance for MCET Work at PLC									
SUB TOTALS										
				\$ 1,162,522.00		\$ 15,000.00	\$ 1,177,522.00	1.29%	\$ 1,147,522.00	\$ -

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity



26622 Woodward Ave. Ste 200
 Royal Oak, MI 48067
 Phone: (248) 544-4800

Invoice # 10083	Page 1 of 1
Account Number	Date
JFCAVAN-01	1/16/2020
BALANCE DUE ON	
1/15/2020	
AMOUNT PAID	Amount Due
	\$11,132.00

MARKE1

J.F. Cavanaugh Company
 ATTN: Jennifer
 20750 Sunnydale Street
 Farmington Hills, MI 48336-5251

Contract Bonds	Policy Number: 013126378	Effective: 1/14/2020 to 1/14/2021
----------------	--------------------------	-----------------------------------

Item #	Trans Eff Date	Due Date	Trans	Description	Amount
68409	1/14/2020	1/15/2020	NEWB	New CONT Effective 1/14/2020	\$11,132.00

8 1/2 Mile Relief Drain Drainage District; Chapaton pump Station dry weather pump CP: \$1,198,822

Total Invoice Balance:

\$11,132.00

POSTED

DID WE RECEIVE ✓
JOB 3218
W/C
TAX OR NON



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/12/20
4. SET ID VP200316MA		5. POST DATE

PARENT RECORD INFORMATION		
6. VENDOR NAME (Check to be issued to) Meadowbrook Insurance	7. VENDOR NUMBER V72943	8. ADDR CODE 02
	9. Invoice No (MAX=16 CHARACTERS) 3977	10. Invoice Date 2/20/2020
		11. Invoice Amount \$ 27,500.00

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger		Job Ledger		16. Work Order Number	17. Secondary Reference (MAX=16 CHARACTERS)	18. Description (MAX=30 CHARACTERS)	19. Amount	20. DIV	21. MISC
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object						
A	8210017M	91101	CC0004	91101	WO18006	8 1/2 Mile Relief	OCIP Marketing/Set Up	\$ 13,750.00	GEN	
B	8210166M	91101	CC0018	91101		MIDDD	OCIP Marketing/Set Up	\$ 13,750.00	GEN	0
C										
D										
E										
F										
G										

23. Total: \$ **27,500.00** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>mtm</i> 8 1/2 Mile Relief; MIDDD
26. Chief Deputy:	N/A
27. Engineers:	3/24/2020
28. Managers:	4/13/2020
29. Coordinator:	<i>jk</i>



WO20010
 ✓ 72943 (02)

16142 Collection Center Drive
 Chicago, IL 60693-0002
 (800) 875-8395

Invoice # 3977	Page 1 of 1
Account Number	Date
MACOCOU-02	2/20/2020
BALANCE DUE ON 3/20/2020	
AMOUNT PAID	Amount Due \$ 27,500.00

Macomb County Public Works
 21777 Dunham Road
 Clinton Township, MI 48036

Make checks payable to: Meadowbrook Insurance Agency

Miscellaneous Commercial	Policy Number OCIP Service Fee	Effective: 1/16/2020 to 4/16/2020
--------------------------	--------------------------------	-----------------------------------

Item #	Trans Eff Date	Due Date	Trans	Description	Amount
166377	1/16/2020	3/20/2020	NEWB	Macomb County Wastewater Capital Improvement Program OCIP Marketing & Set Up Fee	\$27,500.00
Total Invoice Balance:					\$27,500.00

Payment due upon receipt.

Split M1000 / 8 1/2 Mile
 91101

CONTRACT FOR INSURANCE CONSULTANT AND AGENCY SERVICES
MACOMB COUNTY WASTEWATER
CAPITAL IMPROVEMENT PROGRAM OCIP

BETWEEN

MEADOWBROOK, INC.
AND
MACOMB COUNTY DRAIN COMMISSIONER
Candice Miller

MACOMB COUNTY PUBLIC WORKS
21777 DUNHAM ROAD
CLINTON TOWNSHIP, MI 48036

This Agreement, made and entered into the 16th day of January, 2020, between Meadowbrook, Inc. ("MIA") and the Macomb County Drain Commissioner ("OWNER").

WHEREAS, Projects ("PROJECTS") shall, in general, consist of the following:

PROPOSED PROJECTS:

Project Name	Bid Date	Construction Start	Years Duration	Construction Estimate
Romeo Arm Segment 5 Rehabilitation (Clean and Reline)	Mar-2020	Sep-2020	2.5	\$25,000,000
Chapaton Canal Upgrades 8.5 Mile Drain	Mar-2020	Sep-2020	2.5	\$20,000,000
15 Mile Interceptor Segment 6 Clean and Rehabilitation	TBD	Dec-2021	2.5	\$20,000,000
8.5 Mile Relief In-System Storage	TBD	Jul-2021	1.5	\$10,000,000
TOTAL				\$75,000,000

WHEREAS, OWNER has retained MIA as the Insurance Agent for (the "PROJECTS"):

WHEREAS, OWNER, in consultation with MIA, intends to develop and implement an Owner Controlled Insurance Program (OCIP) and Project Professional Liability Program in connection with the PROJECTS; and

NOW, THEREFORE, for and in consideration of the mutual promises contained herein, the parties agree as follows:

DEFINITIONS

Wherever used in this Agreement the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

- 1. Agreement.** This Contract for Insurance Consultant and Agency Services between OWNER and MIA including all exhibits hereto.
- 2. Work Order.** A document which is signed by MIA and OWNER to authorize an addition, deletion or revision in the services to be performed by MIA under this Agreement, or an adjustment in the compensation to be paid by OWNER to MIA.
- 3. Documents.** Data, reports, and other deliverables, whether in printed or electronic media format, provided or furnished in appropriate phases by MIA to OWNER pursuant to this Agreement.
- 4. Contract Documents.** All bid specifications, amendments, General Conditions and Supplemental Conditions, diagrams, maps, exhibits, etc., provided or furnished to Contractors for completion of the Project.

5. **Contractor.** The persons or entities with whom OWNER enters into a written agreement covering construction work to be performed or furnished with respect to the PROJECTS.
6. **Subcontractor.** The persons or entities with whom Contractor enters into a written agreement covering construction work to be performed or furnished with respect to the PROJECTS.
7. **Engineer.** The engineering consultant under contract with the OWNER to provide design, project administration, or other professional services as specified in the professional services contract documents and addenda specific for each engineering consultant.
8. **General Conditions.** That part of the Contract Documents which sets forth terms, conditions and procedures that govern the Work to be performed or furnished by Contractor(s) with respect to the PROJECTS.
9. **Site.** Land or areas indicated in the Contract Documents as being furnished by OWNER upon which the Work is to be performed, rights-of-way and easements for access thereto, and such other lands furnished by OWNER which are designated for use of Contractor(s).
10. **Work.** The entire completed construction or the various separately identifiable parts thereof required to be provided under the Contract Documents with respect to the PROJECTS. Work includes and is the result of performing or furnishing labor, services, and documentation necessary to produce such construction and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.
11. **PROJECTS.** Romeo Arm Segment 5 Rehabilitation (Clean and Reline); Chapaton Canal Upgrades 8.5 Mile Drain; 15 Mile Interceptor Segment 6 Clean and Rehabilitation; 8.5 Mile Relief In-System Storage or any additional sites mutually agreed upon in a written addendum.

SECTION A - CONSULTANT AND AGENCY SERVICES

OWNER does hereby retain MIA and MIA does hereby agree to perform the following services on the terms and conditions hereinafter set forth.

The services to be provided by MIA comprise the professional disciplines and expertise necessary for MIA to complete its obligations under this Agreement in the best interests of, and within the amount authorized by, the OWNER for this purpose.

The description of MIA's services in this Agreement is intended to define, but not exclude, any regular or normal services necessary for MIA to perform its obligations under this Agreement in an effective, efficient, and economical manner within accepted requisites and standards of professional practice in the profession.

Item No 1. SERVICES PROVIDED

Subject to all other terms and conditions of this Agreement, MIA shall provide professional assistance to OWNER in the development, implementation and administration of the OCIP. The OCIP shall include the following casualty, property, and other insurance coverages recommended by MIA to OWNER for the Work to be performed on the Site, in accordance with the Construction Contract:

- a. Commercial general liability;
- b. Builder's risk;
- c. Excess liability;
- d. Environmental liability;
- e. Project professional (OPPI); and
- f. Such other insurance coverages as may be requested by OWNER from time to time upon the recommendation of MIA.

In furtherance thereof, MIA shall provide the following services:

- 1.1. Develop an OCIP marketing package to be submitted to prospective underwriters for review and approval of the OWNER, and upon receipt of approval market such OCIP;
- 1.2. Negotiate, upon approval of OWNER, the terms and conditions of the insurance coverages for the OCIP and take such steps as deemed appropriate by MIA to implement the OCIP coverages; including advice as to inclusion of insurance requirements in the Contract Documents;
- 1.3. Place all insurance for the PROJECTS and OWNER for the full duration of the PROJECTS as "Agent of Record" for the insurance coverages of Owner.
- 1.4. Conduct OCIP orientation sessions, as directed by OWNER, for Contractors, Subcontractors, Engineers, and such other persons as OWNER may direct.
- 1.5. OCIP administration, including a list of the Engineer(s), Contractor(s) and Subcontractors enrolled in the OCIP, a summary of any significant issues MIA has encountered in the administration of the OCIP and any recommendations MIA deems appropriate for the operation of the OCIP;
- 1.6. Administer the OCIP, which shall include:
 - a. Enrollment of the Contractor(s) into OCIP program;
 - b. Notification to the insurer(s) with regard to enrollments, terminations, and contract completion;

- c. Processing and distributing all OCIP policies and endorsements during the term hereof;
- d. Reviewing insurance certificates furnished by Engineer(s), Contractor(s) and Subcontractors to verify compliance with the insurance requirements contained in the Contract Documents;
- e. Assisting Contractor(s) in determining which Subcontractors qualify for enrollment under the OCIP;
- f. Reviewing OCIP insurers' audits;
- g. Serving as liaison between OWNER and the OCIP insurers with respect to claims filed under the OCIP. MIA shall advise as to need and method for providing notice of claims and consult with OWNER as to all actions necessary to protect OWNER's rights as an insured.

Item No.2: ADDITIONAL SPECIAL SERVICES

MIA shall provide Additional Special Services on an as needed basis upon specific prior written request of OWNER. No payment, of any nature whatsoever, will be made to MIA for additional work or services without such prior written approval by OWNER. Authorization for such work or services, in accordance with this provision of this Agreement, shall be in the form of a Work Order, issued by OWNER, stating the scope of the additional work, and the basis for payment. Those services are as follows:

1. Assistance to OWNER for preparation or appearance as an expert witness in litigation arising from the development or construction of the PROJECTS unless such services are required due to MIA's negligent acts, errors or omissions.
2. Preparation of supporting documents for insurance submission.
3. Any other services resulting from significant changes in the scope, extent or character of the portions of the PROJECTS specified by MIA or its requirements when such changes are issued as a result of some action or inaction on the part of OWNER, including, but not limited to, changes in size, complexity, OWNER's schedule, character of construction or method of financing; and revising previously accepted studies, reports, Drawings, Specifications or Contract Documents when such revisions are required by changes in laws, rules, regulations, ordinances, codes or orders enacted subsequent to the preparation of such studies, reports, drawings, specifications, or Contract Documents, or are due to other causes beyond MIA's control.

Notwithstanding anything to the contrary expressed elsewhere in the Agreement, no additional or other consulting services made necessary by any fault or omission of MIA to properly perform its professional consultant and agency services in conformance with the standard of practice of the profession as contracted for with OWNER, shall be compensated as an Additional Special Service under this Agreement. In the event that MIA's negligent acts, errors or omissions are determined by the final and unappealable ruling of a tribunal having jurisdiction of the claims

not to be the sole cause for such additional or other consulting services, MIA shall receive compensation only for those services which are not attributable to its negligent acts, errors or omissions. Additional Special Services covered under this contract will be compensated on an hourly rate of \$250 per hour.

SECTION B - OWNER'S RESPONSIBILITIES

In addition to making proper payment for a performed service or an incurred expense, OWNER may provide, at its discretion, upon the request of MIA, information and services as described in this Section. The cost and accuracy of the information provided shall be the obligation of OWNER (subject to any appropriate conditions or qualifications), but the interpretation, evaluation and use in and for the service of the PROJECTS, shall be the responsibility of MIA.

The information or services provided shall not, under any circumstances, be a substitute for or relieve MIA of any responsibility or expense for the services or its duties to render services pursuant to this Agreement in accordance with professional consulting standards of practice of the profession.

The OWNER may:

1. Provide information in the form of tests, surveys and reports, or from written requirements, or advice and counsel, or by MIA, or other service. Such information and service may include:
 - a. A prospectus or statement consisting of information regarding the requirements of the Project.
 - b. Existing studies, reports and other available data pertinent to the Project; obtain or authorize MIA to obtain or provide additional reports and data as required; and furnish to MIA services of others required for the performance of MIA's services hereunder.
 - c. Such accounting and independent cost estimating services as may be required for the Project, such legal services as OWNER may require or MIA may reasonably request with regard to legal issues pertaining to the Project including any that may be raised by Contractors.
2. Review and comment on submitted reports, if necessary, and render timely decisions pertaining thereto. MIA's duties as set forth in the Agreement shall at no time be in any way diminished by reason of any approval by OWNER of any reports or other submissions from MIA nor shall MIA be released from any liability by reason of such approval by OWNER, it being understood that OWNER at all times is ultimately relying upon MIA's skill and knowledge in connection with its services under this Agreement.
3. Arrange for access to and make all provisions for MIA to enter upon public and private property as required for MIA to perform its services.

4. Designate in writing a person to act as OWNER's representative with respect to the services to be rendered under this Agreement. Such person shall have complete authority to transmit instructions, receive information, interpret and define OWNER's policies and decisions with respect to materials, equipment, elements and systems pertinent to MIA's services.

OWNER agrees to be responsible for the following:

- a. Providing the necessary insurance submission and underwriting information pertaining to the OWNER as requested by the MIA;
- b. Participating in periodic reviews of the OCIP and related meetings;
- c. Making final decisions on all matters relating to OWNER's and Project's insurance coverages, risk management and loss control needs and activities.

MIA shall be entitled to use and rely upon all such information and services provided by OWNER or others in performing MIA's services under the Agreement. Nothing contained herein shall relieve MIA of its responsibility to appropriately verify any such information received when such verification would be appropriate for MIA in order to perform his duties in accordance with professional consulting standards of practice of the profession.

SECTION C- COMPENSATION FOR CONSULTING SERVICES AND TERM OF PROJECTS

1. Compensation

For the performance of the services to be provided hereunder, OWNER agrees to pay MIA the following fees:

Marketing and Setup Fee – to be billed at execution of the contract for the 3 months prior to start of construction: \$ 27,500

Fee Installments (paid in advance at project start)
Annually \$110,000

\$850 Monthly charge for Nourtek risk management solution or a similar computer program (as needed)

First Fee installment payable at inception of construction and billed every 12 months through full duration of the project which is expected to be complete in 3 years and to continue through project OCIP closeout. Any partial years' fee will be estimated pro-rata and paid in advance.

Core OCIP insurance policy (commercial general liability) and excess liability will be placed without MIA taking commission, and MIA will take ordinary commissions from

premiums paid for builders' risk, environmental liability, OPPI and other policies, which may be required to be placed and maintained for the project.

Consultative legal services for disputed claims with insurance companies, other legal requirements, associated claims expenses and other expenses that may not be payable through such insurance companies will be paid by the OWNER.

2. This Agreement will be for the full term of the PROJECTS.

SECTION D -ADDITIONAL CONDITIONS

1. No Waiver of Rights/Provision of Legal Defense of Claims

OWNER's review, approval, acceptance of, or payment for any of the services required under the Agreement shall not be construed to operate as a waiver by OWNER of the rights under the Agreement or of any cause of action arising out of the performance of the Agreement by MIA.

Notwithstanding any other provision in this Agreement, no provision in this Agreement is intended, nor shall any such provision be construed, as either waiving or constituting a waiver of any public or governmental immunity afforded to the OWNER, and/or OWNERS agents, employees, representatives as provided by applicable statutes and/or court decisions. Except as otherwise provided herein, at no cost to the OWNER, MIA shall assist and cooperate with OWNER in the investigation and defense of any claims which arise in whole or part from the services provided by MIA or which are alleged to have occurred in whole or in part as a result of the negligent acts, errors, or omissions of MIA in the performance of any of the services furnished under the Agreement.

In the event of litigation that includes any third-party claim or third-party counterclaim arising from MIA's obligations hereunder, or the negligent acts, errors or omissions of MIA, its agents, consultants, employees, or representatives, ("Claim"), MIA shall provide a legal defense to OWNER, whether that defense is provided by MIA's insurance carrier or at MIA's own expense.

To the extent insurance coverage does not exist relative to the Claim, MIA agrees to indemnify, defend and hold OWNER harmless from and against all liabilities, losses, claims, interest, penalties, damages, court costs and amounts paid in settlement whatsoever (including reasonable attorneys' fees, whether or not suit is instituted, whether incurred in any settlement, trial or appellate level) suffered by OWNER arising out of or resulting from the negligent acts, errors or omissions of MIA relating to the Claim.

If OWNER's liability in whole or in part for the Claim is caused by OWNER's own negligence or other wrongful acts or omissions, OWNER shall be responsible for payment of that portion of any liability (whether resulting from a judgment or settlement) which is attributable to OWNER's negligence or other wrongful act or omission ("OWNER's Share"). OWNER shall also be responsible for paying that portion of the total defense costs as is determined by multiplying the total defense costs

by a fraction, the numerator of which is OWNER's Share and the denominator of which is the total liability associated with the Claim.

2. Termination

A. The obligation to provide further services under this Agreement may be terminated:

I. For cause,

a. By either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.

b. By MIA:

i. Upon seven (7) days written notice if MIA believes that MIA is being requested by OWNER to furnish or perform services contrary to MIA's responsibilities as a licensed professional; or

ii. Upon seven (7) days written notice if MIA's services for the PROJECTS are delayed or suspended for more than ninety (90) days for reasons beyond MIA's control.

c. Notwithstanding the foregoing, this Agreement will not terminate as a result of such substantial failure if the party receiving such notice begins, within seven (7) days of receipt of such notice, to correct its failure to perform and proceeds diligently to cure such failure within no more than thirty (30) days of receipt thereof; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such thirty (30) day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, sixty (60) days after the date of receipt of the notice.

II. For convenience,

a. By OWNER upon ninety (90) written notice, without regard to any fault or failure to perform by any party.

B. Compensation to MIA

I. If the termination is for the convenience of OWNER, an equitable adjustment in the compensation of MIA shall be made, MIA will reimburse Owner (since costs are prepaid) but no amount shall be allowed for anticipated profit or unperformed services. In the event of termination during any phase of the PROJECTS, including the review of insurance and related language for construction and consulting services contracts, broker selection and insurance

placement process, MIA will be paid for services performed or furnished in accordance with this Agreement through date of termination on an hourly basis at a rate of \$250 per hour.

- II. If the termination is due to the failure of MIA to fulfill its contractual obligations, including, without limitation, substandard performance by MIA, or careless, or negligent, or incompetent, or deficient services by MIA, OWNER may take over the work and prosecute the same to completion by contract or otherwise and OWNER shall be compensated by MIA for any losses, costs or additional expenses (including, without limitation, legal fees and expenses and internal consulting time and expenses) it incurs by virtue of termination and alternative completion of the work.

C. Discontinuance of Services; Delivery of Documents to OWNER.

- I. Upon receipt of a termination notice, whether for cause or the convenience of OWNER, MIA shall immediately discontinue all services affected (unless the notice directs otherwise), deliver to OWNER copies of all data, reports, estimates, summaries, and such other information and materials as may have been accumulated by MIA in performing this Agreement and perform any other services upon termination as required in other provisions of this Agreement.

3. Cooperation with Successor Construction Safety Consultant or Agency

In the event of a termination under this Agreement, MIA agrees to cooperate with and provide any information requested by OWNER to MIA's successor in connection with the completion of the PROJECTS.

4. Ownership of Documents

- A. All original reports and other documents prepared or created by MIA pursuant to this Agreement or any obligation hereunder, shall become the exclusive property of OWNER
- B. Notwithstanding any other provisions of this Agreement, all of MIA's preexisting or proprietary computer programs or software developed by MIA outside of this Agreement shall remain the exclusive property of MIA.

5. Insurance to be Maintained by MIA

MIA will, at no cost to the OWNER, obtain and endeavor to maintain for the duration of this Agreement the following insurance coverages. MIA will further endeavor to maintain coverages under claims-made policies for a period of six (6) years following the completion of the PROJECTS, only if such insurance coverage is commercially available. All such insurance obtained by MIA shall be non-cancelable by endorsement without thirty (30) days prior to written notice to the OWNER and shall be evidenced

by Certificates of Insurance to be delivered to the OWNER upon execution of this agreement. MIA will not engage or employ any consultant who does not maintain the insurance coverages referred to in this Agreement. MIA will endeavor to periodically verify that said consultants are maintaining the insurance coverages required under this Agreement.

- A. Professional Liability/Errors and Omissions Coverage in the minimum amount of Ten Million (\$10,000,000) Dollars, per occurrence/claim and aggregate.
 - B. Commercial General Liability policy (New ISO Designation) in the minimum amount of One Million (\$1,000,000) combined single limit per occurrence and aggregate, including contractual liability recognizing this contract.
 - C. Comprehensive Automobile Liability policy to cover bodily injury and property damage arising out of the ownership, maintenance or use of any motor vehicle owned, non-owned or hired vehicles in the minimum amount of One Million (\$1,000,000) combined single limit per occurrence. No fault coverage complying with the statutory requirements of the State of Michigan is also required.
 - D. Workers' Compensation Insurance including Employer's Liability to cover employee injuries or disease compensable under the Workers' Compensation statutes of the State of Michigan and the states in which work is conducted under the Agreement, disability benefit laws, if any; or federal compensation acts such as U.S. Longshoremen or Harbor Workers, Maritime Employment, or Railroad Compensation Act(s), if applicable. Self-insurance plans approved by the regulator authorities in the state in which Work on the PROJECTS is performed and the State of Michigan are acceptable. Employee's liability coverage shall be in the minimum amount of Five Hundred Thousand (\$500,000) Dollars per occurrence.
6. Indemnification

MIA agrees to defend, indemnify and hold harmless the OWNER and OWNER's agents, employees, against any and all claims, loss, liability, damages, costs and expenses, including, but not limited to, all reasonable fees and charges of consultants, attorneys and other professionals, all internal consulting and other time and expenses incurred by OWNER using its own staff, and all court or other dispute resolution costs, caused by the negligent acts, errors or omissions of MIA, its agents, consultants, employees or representatives; provided however, MIA shall not be required to defend, indemnify or hold harmless the OWNER or other indemnified parties for their own negligence or breach of this Agreement as set forth in Paragraph 1 of this Section.

7. Assignment

MIA shall not assign this Agreement without the written consent of OWNER and MIA shall not unreasonably object to any assignment of this Agreement by OWNER, except

to the extent that any assignment is mandated by law or the effect of this limitation may be restricted by law.

8. Independent Contractor

MIA shall perform and execute the provisions of this Agreement as an independent contractor and shall not be an agent or employee of OWNER.

9. Construction of Document/Governing Laws

If there is a discrepancy between the obligations of MIA as provided for herein, and those set forth in the General Conditions of the Construction Contract, then the terms of this Agreement shall govern MIA's obligations and responsibilities to OWNER.

Both parties agree that performance under this Agreement will be conducted in compliance with all federal, Michigan, and local laws and regulations. This agreement shall in all respects be interpreted, enforced and governed under the laws of the State of Michigan.

The language of all parts of this Agreement is intended to and under all circumstances shall be construed as a whole according to its fair meaning and not construed strictly for or against any party. Any use of the singular or plural number, any reference to the male, female, or neuter gender(s), possessive or non-possessive, in this Agreement shall also be deemed to include the appropriate other when the context so suggests or requires.

10. Alternative Dispute Resolution

Claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement shall be decided as set forth below:

A. Facilitation. OWNER and MIA shall submit their claims, disputes or other matters in question to a neutral facilitator selected by the parties who will assist in the resolution of the claim, disputes or other matter. Facilitation is defined as: A process to reconcile parties and settle disputes.

B. Non-Binding Mediation. If OWNER and MIA are unable to settle their claims through facilitation, they shall participate in non-binding mediation. The mediation shall be conducted pursuant to the provisions of the Michigan Rules of Court. The mediation shall be without sanctions. The parties shall select the individual mediators and agree on compensation.

11. Survival of Rights and Obligations

MIA and OWNER's obligations, to the extent applicable, which arise under Section A and Section D, paragraphs I to 6, shall survive the termination of this Contract indefinitely.

12. Additional Insured on PROJECTS Policies

MIA is hereby listed and or authorized to be listed as an additional insured on all appropriate PROJECTS insurance policies of the Owner, said policies will be primary and non-contributory in the event of any loss or claim for damages.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first referenced in this Agreement.

WITNESSES:

WITNESSES:
COMMISSIONER

MEADOWBROOK, INC.

By: _____
By: _____

MACOMB COUNTY DRAIN

By: _____
By: _____

RITTERTECH

a division of MCE

MAIL REMITTANCE TO:
MOTION & CONTROL ENTERPRISES LLC
P.O. BOX 775888
CHICAGO, IL 60677-5888

INVOICE

ENTERING OFFICE:

Customer PO No. VERBAL PETE

RITTERTECH-MI
18855 E 14 MILE ROAD
CLINTON TWP MI 48035

INVOICE NUMBER Y38898-002	TRAN CODE DI
INVOICE DATE 02/21/20	PAGE 1

SALES TERMS found @ www.mceautomation.com Any different or additional terms that may be embodied in your purchase order are hereby objected to. If your order is not an acceptance of our proposal, this will operate as an acceptance of your order only in the event you agree to the terms hereof. The terms and conditions contained above and attached shall apply.

LINE NO.	QUANTITY			PART NUMBER DESCRIPTION	UNIT OF MEASURE PRODUCT	UNIT PRICE DISCOUNT %	EXTENDED AMOUNT
	TOTAL ORDERED	BACK ORDERED	THIS SHIPMENT				
10	1		1	<p>www.mceautomation.com</p> <p>!!!PLEASE NOTE OUR NEW REMITTANCE ADDRESS!!!</p> <p>MOTION & CONTROL ENTERPRISES LLC P.O. BOX 775888 CHICAGO, IL 60677-5888</p> <p>-----</p> <p>BUYER NAME: PETE</p> <p>-----</p> <p>500109 TROUBLESHOOT 671 EA TROUBLESHOOT SYSTEM "B" HYDRUALIC ISSUES WORK PERFORMED ON 2/20/20</p> <p>INBOUND FRT IS: .00</p> <p><i>Chapaton Accumulator B</i></p>		625.0000	625.00

CUST. NO. M3425	ORDER DATE 02/21/20	TERR \$T	PC 05	ORD S	Written By KAH	DATE SHIPPED 02/21/20	WHSE 05	AMOUNT 625.00
Carrier: ON SITE FOLD								FRGHT/INS/HNDL .00
FOB: SP,PREPD&ADDED								SALES TAX .00
ORIGINAL INVOICE Terms of Payment: NET 30 DAYS NO RETURNS WITHOUT PRIOR AUTHORIZATION. BACKORDERED ITEMS MAY NOT BE ON INVOICE. QUOTED PRICES VALID FOR 30 DAYS...								INVOICE TOTAL 625.00 <small>Please Pay This Amount</small>

ORDER ISSUED IN: CLINTON TWP
PHONE: 586-554-7470

S
O
L
D
T
O
MACOMB COUNTY D.P.W.
23001 E 9 MILE ROAD
ST CLAIR SHORES MI 48080

S
H
I
P
T
O
MACOMB COUNTY D.P.W.
23001 E. 9 MILE ROAD
ST CLAIR SHRS MI 48080



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/4/20
4. SET ID VP200305MA		
5. POST DATE		

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to) Tetra Tech, Inc.	7. VENDOR NUMBER V16060	8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 51561487	10. Invoice Date 3/4/2020	11. Invoice Amount \$ 37,671.68
------------------------------------------------------------	----------------------------	--------------------	-------------------------------------------------	------------------------------	------------------------------------

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL		19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)				
A	8210017M	80138	CC0004	80138	WO19085	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 2/28/20	\$ 37,671.68	GEN		
B											
C											
D											
E											
F											
G											

REV 09/2018

23. Total: \$ 37,671.68

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

In-System Storage Devices

blm

25. Finance Officer:

AP

26. Chief Deputy:

WS

27. Engineers:

JCR

28. Managers:

29. Coordinator:

30. Drain: 8 1/2 Mile Relief

31. Project Balance: \$153,687.71

32. Staff Date: 3/10/2020

33. Board Date: 4/13/2020

34. Select For Pay Date:

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	WO19085	
PROJECT NUMBER	WWS-2019-003	(Tetra Tech# 200-16347-19001)
PROJECT NAME	In-System Storage Devices	
DRAINAGE DISTRICT	Eight and One-Half Mile Relief Drain Drainage District	
CONSULTANT NAME	Tetra Tech of Michigan	
INVOICE DATE	3/4/2020 (Invoice 51561487)	
INVOICE START DATE	1/25/2020	
INVOICE END DATE	2/28/2020	
ORIGINAL CONTRACT AMOUNT	\$	481,098.00
CHANGE ORDER TOTAL	\$	-
Change Order No. 1		
Change Order No. 2		
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	481,098.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	289,738.61
TOTAL AMOUNT DUE THIS INVOICE	\$	37,671.68
TOTAL BUDGET REMAINING	\$	153,687.71
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		



Tetra Tech, Inc.
 424 Lewis Hargett Cir.
 Ste. 110
 Lexington, KY 40503
 (859) 223-8000

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
 OFFICE OF PUBLIC WORKS
 COMMISSIONER
 21777 DUNHAM RD
 PO BOX 806
 CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51561487
INVOICE DATE: 03/04/2020
SERVICES THROUGH: 02/28/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

ESA dated 10July 2019

Client Contact: Vince Astorino. Email vincent.astorino@macombgov.org

PROFESSIONAL SERVICES:

Project Number 200-16347-19001 **In-System Storage Devices**
Top Task 01AS **Project Management Subcontractors**

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$350.00
TOTAL SUBCONTRACTOR CHARGES		\$350.00
SUBTOTAL		\$350.00
Total Top Task# 01AS		\$350.00

Top Task 01B **Infrastructure Survey**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Lopez Lopez, Daniela S.	Engineer 3	7.00	\$125.00	\$875.00
TOTAL LABOR		7.00		\$875.00
SUBTOTAL				\$875.00
Total Top Task# 01B				\$875.00

Top Task 01CS **Utility Survey Subcontractors**

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$2,725.00
TOTAL SUBCONTRACTOR CHARGES		\$2,725.00
SUBTOTAL		\$2,725.00
Total Top Task# 01CS		\$2,725.00

Top Task 01D **Basis of Design**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Flak, Alan J.	Project Engineer 2	1.00	\$180.00	\$180.00
Fortier, Véronique	Sr Modeler	23.50	\$210.00	\$4,935.00
Geerlings, Eric P.	Project Engineer 1	82.50	\$155.00	\$12,787.50
Kalliman, Roger G.	Sr Engineer 1	7.50	\$180.00	\$1,350.00
Lortz, Thomas J.	CAD Designer	2.00	\$140.00	\$280.00
Robitaille, Luc	Engineer 3	13.25	\$250.00	\$3,312.50
Rubel, Brian M.	Program Manager	20.00	\$225.00	\$4,500.00

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
 OFFICE OF PUBLIC WORKS
 COMMISSIONER
 21777 DUNHAM RD
 PO BOX 806
 CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51561487
INVOICE DATE: 03/04/2020
SERVICES THROUGH: 02/28/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Sanford, Chadwick I.	Sr CAD Designer 1	31.00	\$140.00	\$4,340.00
Tao, Qing D.	Sr Project Manager	6.00	\$250.00	\$1,500.00
Voss, Justin D.	Project Engineer 1	0.50	\$155.00	\$77.50
Walsh, Jean-Simon	Jr Technical I&C	2.00	\$110.00	\$220.00
TOTAL LABOR		189.25		\$33,482.50
		SUBTOTAL		\$33,482.50

OTHER DIRECT CHARGES	TYPE	CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
Rubel, Brian M.	Mileage (unit)	129.00	\$0.58	\$74.18
TOTAL OTHER DIRECT CHARGES				\$74.18
		SUBTOTAL		\$74.18

Total Top Task# 01D **\$33,556.68**

Top Task	01DS	Basis of Design Subcontractors	CURRENT AMOUNT
SUBCONTRACTOR		TYPE	
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External	\$165.00
TOTAL SUBCONTRACTOR CHARGES			\$165.00
		SUBTOTAL	\$165.00

Total Top Task# 01DS **\$165.00**

Total Project# 200-16347-19001 **\$37,671.68**

TOTAL AMOUNT DUE THIS INVOICE: **\$37,671.68**

Gross Contract Summary	
Contract Amount	\$481,098.00
Previously Billed	\$289,738.61
Current Billing	\$37,671.68
Total Billed to Date	\$327,410.29
Contract Balance Remaining	\$153,687.71

REMIT PAYMENT TO:

TETRA TECH, INC.
PO BOX 911967
DENVER, CO 80291-1967

To ensure accurate posting, please note the invoice number on your check. Interest will be charged on all past-due amounts per contract terms and conditions.

PWP



Engineers | Architects | Scientists | Constructors

ACH

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit checks to: 455 Arboretum Drive, SE Grand Rapids, Michigan 49546
Remittance Advice: accounts.receivable@fishbeck.com
616.575.3824
Federal I.D. No. 38-1841857 | Incorporated

Attention: Brian Rubel PE
Tetra Tech Mps
710 Avis Drive Suite 100
Ann Arbor, MI 48108
United States

Invoice: 389456
Invoice Date: 2/3/2020
Project: 190884
Project Name: Macomb Co PW/In-system Storage
Bill Term: 1

For Professional Services Rendered Through 1/24/2020

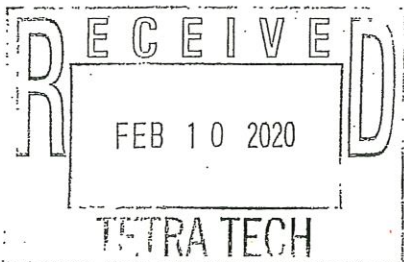
P.O. 1166522! X

	Fee	Available	Billings		
			To Date	Previous	Current
1.A - Task 1A - 8.5 Mile Project Management	(2) 5,000.00	1,468.65	3,881.35	3,531.35	350.00 .01AS
Rate Labor		350.00			
1.B - Task 1B - 8.5 Mile Infrastructure Survey	66,655.00	716.60	65,938.40	65,938.40	0.00
1.C - Task 1C - 8.5 Mile Utility Survey	(A) 16,964.00	3,297.00	16,392.00	13,667.00	2,725.00 .01CS
Rate Labor		2,725.00			
1.D - Task 1D - 8.5 Mile BOD/Addit Survey	(1) 23,248.00	21,323.00	2,090.00	1,925.00	165.00 .01DS
Rate Labor		165.00			

Current Billings 3,240.00
Amount Due This Bill 3,240.00

103976

200 - 16347 - 19001 .XXX
SUB-EXT
200 LEW AA



OK to pay when paid.
B. Rubel
2/8/20
200-16347-19001

PWP

1.A - Task 1A - 8.5 Mile Project Management

Rate Labor

Class	Hours	Rate	Amount
Senior Engineer	2.00	175.0000	350.00
Total Rate Labor			350.00

1.C - Task 1C - 8.5 Mile Utility Survey

Rate Labor

Class	Hours	Rate	Amount
Senior Engineer	10.50	137.0000	1,438.50
Senior Surveyor	7.00	130.0000	910.00
Senior Technician	1.50	105.0000	157.50
Staff Technician	3.00	73.0000	219.00
Total Rate Labor			2,725.00

Total Bill Task: 1.C - Task 1C - 8.5 Mile Utility Survey

2,725.00

1.D - Task 1D - 8.5 Mile BOD/Addit Survey

Rate Labor

Class	Hours	Rate	Amount
Engineer	1.50	110.0000	165.00
Total Rate Labor			165.00

Total Project: 190884 - Macomb Co PW/In-system Storage

3,240.00



PROJECT STATUS COMMUNICATION

DATE: March 3, 2020

PREPARED BY: Brian Rubel / Eric Geerlings

PROJECT: Macomb Co. In-System Storage Devices

Tt PROJECT NO: 200-16347-19001 CONTACT: Mr. Vince Astorino
(Invoice 51561487)

Tasks completed or in-progress since last status communication.

Updates thru February 28th:

- On February 4th, Tetra Tech held conference calls with two inflatable dam manufacturers to review written answers to questions.
- Compiled responses from inflatable dam manufacturers to determine critical design parameters and bypass recommendations.
- On February 13th, a conference call was held with Steve Rozycki to discuss and align the need for bypass pipes at both sites.
- Bypass pipes were sized for both Welsh Family Park site and the Beaconsfield site.
- On February 14th, the landscape architect completed a community enhancement sketch for the Beaconsfield site.
- On February 21st, two animation video files were uploaded to the DropBox. As requested, one file had explanatory text removed.
- Completed RTC analysis, including annual simulation results.
- On February 24th, the boundary survey of the Beaconsfield site was completed.
- Completed feasibility analysis for various Beaconsfield site layout options and determined a recommended layout.
- Updated conceptual cost estimates for the Welsh Family Park site and the Beaconsfield site.

Opportunities for cost avoidance or added value.

Impediments, roadblocks, assistance needed.

Change (or potential change) of scope items or customer concession. (Details on attached Request to Change Authorization)

The Nine Mile portion of the study was dropped and may cause inefficiencies in completing the 8.5 Mile study. Tetra Tech will monitor this as the study proceeds.

Schedule:

March 6th is the next scheduled Progress Meeting. Coordination with EGLE regarding the scope of the project is still on hold until MCPWO provides further guidance.
A face to face meeting to review the Basis of Design report is anticipated in April.

Next task or action items.

1. Complete and deliver the Basis of Design Report in March.

Please do not hesitate to contact any member of our Team at any time.

Brian Rubel Phone: (734) 213-4081 Email: Brian.Rubel@tetratech.com
Project Manager



Mark A. Hackett
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 4/2/20
4. SET ID V1200402MA		5. POST DATE

6. VENDOR NAME (Check to be issued to) Tetra Tech, Inc.	7. VENDOR NUMBER V16060	8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 51571567	10. Invoice Date 4/2/2020	11. Invoice Amount \$ 42,241.43
------------------------------------------------------------	----------------------------	--------------------	-------------------------------------------------	------------------------------	------------------------------------

General Ledger		Job Ledger		OPTIONAL		20. DIV	21. MISC	22. Sep CK	
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount		
A	8210017M	80138	80138	WO19085	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 3/27/20	\$ 42,241.43	GEN	
B									
C									
D									
E									
F									
G									

23. Total: \$ 42,241.43

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
In-System Storage Devices

25. Finance Officer: Bm | MH

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: _____

30. Drain: 8 1/2 Mile Relief

31. Project Balance: \$111,446.28

32. Staff Date: 4/7/2020

33. Board Date: 4/13/2020

34. Select For Pay Date: _____

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	WO19085	
PROJECT NUMBER	WWS-2019-003	(Tetra Tech# 200-16347-19001)
PROJECT NAME	In-System Storage Devices	
DRAINAGE DISTRICT	Eight and One-Half Mile Relief Drain Drainage District	
CONSULTANT NAME	Tetra Tech of Michigan	
INVOICE DATE	4/2/2020 (Invoice 51571567)	
INVOICE START DATE	2/29/2020	
INVOICE END DATE	3/27/2020	
ORIGINAL CONTRACT AMOUNT	\$	481,098.00
CHANGE ORDER TOTAL	\$	-
Change Order No. 1		
Change Order No. 2		
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	481,098.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	327,410.29
TOTAL AMOUNT DUE THIS INVOICE	\$	42,241.43
TOTAL BUDGET REMAINING	\$	111,446.28
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		



Tetra Tech, Inc.
 424 Lewis Hargett Cir.
 Ste. 110
 Lexington, KY 40503
 (859) 223-8000

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
 OFFICE OF PUBLIC WORKS
 COMMISSIONER
 21777 DUNHAM RD
 PO BOX 806
 CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51571567
INVOICE DATE: 04/02/2020
SERVICES THROUGH: 03/27/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

ESA dated 10July 2019

Client Contact: Vince Astorino. Email vincent.astorino@macombgov.org

PROFESSIONAL SERVICES:

Project Number	200-16347-19001	In-System Storage Devices			
Top Task	01A	Project Management			
EMPLOYEE	TITLE		CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Nolta, Michael C.	Project Administrator		1.50	\$90.00	\$135.00
TOTAL LABOR			1.50		\$135.00
			SUBTOTAL		\$135.00
		Total Top Task# 01A			\$135.00
Top Task	01AS	Project Management Subcontractors			CURRENT AMOUNT
SUBCONTRACTOR		TYPE			
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External			\$437.50
TOTAL SUBCONTRACTOR CHARGES					\$437.50
			SUBTOTAL		\$437.50
		Total Top Task# 01AS			\$437.50
Top Task	01BS	Infrastructure Survey Subcontractors			CURRENT AMOUNT
SUBCONTRACTOR		TYPE			
FK ENGINEERING ASSOCIATES		Subcontractor-External			\$1,604.25
TOTAL SUBCONTRACTOR CHARGES					\$1,604.25
			SUBTOTAL		\$1,604.25
		Total Top Task# 01BS			\$1,604.25
Top Task	01C	Utility Survey			CURRENT LABOR AMOUNT
EMPLOYEE	TITLE		CURRENT LABOR HOURS	LABOR RATE	
Lopez Lopez, Daniela S.	Engineer 3		2.50	\$125.00	\$312.50
TOTAL LABOR			2.50		\$312.50
			SUBTOTAL		\$312.50
		Total Top Task# 01C			\$312.50
Top Task	01CS	Utility Survey Subcontractors			

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
 OFFICE OF PUBLIC WORKS
 COMMISSIONER
 21777 DUNHAM RD
 PO BOX 806
 CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51571567
INVOICE DATE: 04/02/2020
SERVICES THROUGH: 03/27/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Fox, Brent R.	Sr CAD Designer 1	3.50	\$150.00	\$525.00
TOTAL LABOR		3.50		\$525.00
		SUBTOTAL		\$525.00

Total Top Task# 01CS \$525.00

Top Task	01D	Basis of Design	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
EMPLOYEE		TITLE			
Geerlings, Eric P.		Project Engineer 1	117.50	\$155.00	\$18,212.50
Kaliman, Roger G.		Sr Engineer 1	6.00	\$180.00	\$1,080.00
Lortz, Thomas J.		CAD Designer	4.00	\$140.00	\$560.00
Paison, William A.		Sr Engineer 1	6.00	\$215.00	\$1,290.00
Robitaille, Luc		Engineer 3	11.00	\$250.00	\$2,750.00
Rubel, Brian M.		Program Manager	31.00	\$225.00	\$6,975.00
Tao, Qing D.		Sr Project Manager	3.50	\$250.00	\$875.00
Voss, Justin D.		Project Engineer 1	0.50	\$155.00	\$77.50
Weston, Cynthia A.		Project Administrator	5.50	\$90.00	\$495.00
TOTAL LABOR			185.00		\$32,315.00
			SUBTOTAL		\$32,315.00

OTHER DIRECT CHARGES	TYPE	CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
Rubel, Brian M.	Mileage (unit)	129.00	\$0.58	\$74.18
TOTAL OTHER DIRECT CHARGES				\$74.18
			SUBTOTAL	\$74.18

Total Top Task# 01D \$32,389.18

Top Task	01DS	Basis of Design Subcontractors	CURRENT AMOUNT
SUBCONTRACTOR		TYPE	
DR STEVEN J WRIGHT PE		Subcontractor-External	\$1,250.00
ENVIRONMENTAL CONSULTING & TECHNOLOGY INC		Subcontractor-External	\$1,552.50
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External	\$4,035.50
TOTAL SUBCONTRACTOR CHARGES			\$6,838.00
			SUBTOTAL
			\$6,838.00

Total Top Task# 01DS \$6,838.00

Total Project# 200-16347-19001 \$42,241.43

TOTAL AMOUNT DUE THIS INVOICE: \$42,241.43

BILL TO: MACOMB COUNTY
ATTN: FINANCE DEPARTMENT
OFFICE OF PUBLIC WORKS
COMMISSIONER
21777 DUNHAM RD
PO BOX 806
CLINTON TOWNSHIP, MI 48036

INVOICE NUMBER: 51571567
INVOICE DATE: 04/02/2020
SERVICES THROUGH: 03/27/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Gross Contract Summary	
Contract Amount	\$481,098.00
Previously Billed	\$327,410.29
Current Billing	\$42,241.43
Total Billed to Date	\$369,651.72
Contract Balance Remaining	\$111,446.28

REMIT PAYMENT TO:

TETRA TECH, INC.
PO BOX 911967
DENVER, CO 80291-1967

To ensure accurate posting, please note the invoice number on your check. Interest will be charged on all past-due amounts per contract terms and conditions.

PWP



ACH

Payment Options
Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit checks to: 1515 Arborvitae Drive SE, Grand Rapids, Michigan 49546
Remittance Advice: accounts.receivable@fishbeck.com
616.575.3824
Federal I.D. No. 38-1841857 | Incorporated

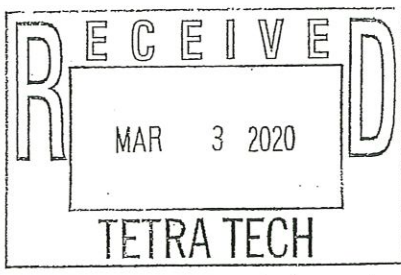
Attention: Brian Rubel PE
Tetra Tech Mps
710 Avis Drive Suite 100
Ann Arbor, MI 48108
United States

Invoice: 389954
Invoice Date: 3/2/2020
Project: 190884
Project Name: Macomb Co PW/In-system Storage
Bill Term: 1

For Professional Services Rendered Through 2/21/2020

P.O. 1166522: X

	Fee	Available	Billings			
			To Date	Previous	Current	
1.A - Task 1A - 8.5 Mile Project Management	5,000.00	1,118.65	4,318.85	3,881.35	437.50	.0145 (3)
Rate Labor		437.50				
1.B - Task 1B - 8.5 Mile Infrastructure Survey	66,655.00	716.60	65,938.40	65,938.40	0.00	
1.C - Task 1C - 8.5 Mile Utility Survey	16,964.00	572.00	16,392.00	16,392.00	0.00	
1.D - Task 1D - 8.5 Mile BOD/Addit Survey	23,248.00	21,158.00	6,125.50	2,090.00	4,035.50	(1) .0145
Rate Labor		3,833.00				
Unit Rate Expense		202.50				
Current Billings					<u>4,473.00</u>	
Amount Due This Bill					<u>4,473.00</u>	



103976
200-16347-19001
OK to pay when paid
B. Rubel
3/3/20
Sub. EXT
200 NEW AA

PWP

1.A - Task 1A - 8.5 Mile Project Management

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	2.50	175.0000	437.50
Total Rate Labor			437.50

1.D - Task 1D - 8.5 Mile BOD/Addit Survey

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	1.00	137.0000	137.00
	1.00	130.0000	130.00
Total Senior Engineer	2.00		267.00
Senior Surveyor	6.00	130.0000	780.00
Staff Technician	18.00	73.0000	1,314.00
	16.00	92.0000	1,472.00
Total Staff Technician	34.00		2,786.00
Total Rate Labor			3,833.00

Unit Rate Expenses

<u>Account / Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Company Vehicle Use			
Mileage - Company Vehicle	166.00	0.9500	157.70
Mileage			
Mileage - Employee Vehicle	64.00	0.7000	44.80
Total Unit Rate Expenses			202.50

Total Bill Task: 1.D - Task 1D - 8.5 Mile BOD/Addit Survey

4,035.50

Total Project: 190884 - Macomb Co PW/In-system Storage

4,473.00

PLP

Dr. Steven J. Wright, P.E.

Engineering Consultant
126 South Street
Chelsea, Michigan 48118
734-475-1563 (Home) 734-476-4603 (Cellphone)

PROFESSIONAL SERVICES INVOICE

FROM: Steven J. Wright
126 South St.
Chelsea, MI 48118

SS # 533-54-0273

TO: Brian Rubel
TetraTech
710 Avis Drive
Ann Arbor MI 48108

P.O. 116780611

INVOICE # 178

DATE: March 9, 2020

PERIOD OF SERVICES - September, 2019 - January, 2020

PROJECT Macomb County Transient Analysis

TOTAL AMOUNT OF INVOICE:

\$1,250

EXPENSE DISTRIBUTION

5 hours, review of provided documents plus two meetings

@ \$250/hour

\$1,250

Steven J. Wright

Signed

RECEIVED
MAR 10 2020
TETRA TECH

118791

200-16347-19001. 01DS

sub. EXT

200 1EW AA

OK to pay when paid.

B. Rubel

3/9/20

200-16347-19001

This should close the PO

PLP

12/31/2019



Environmental Consulting & Technology, Inc.

ACH

3701 Northwest 98th Street
Gainesville, FL 32606 - 352-332-0444

P.O. 11666191

TETRA TECH OF MICHIGAN
710 AVIS DRIVE
STE 100
ANN ARBOR, MI 48108

Invoice # : 200388
Invoice Date : 1/24/2020
Project : 190509
Project Name : MACOMB IN-SYS STRGE DEVICE-L
Fed ID : 59-2921038

Attention: BRIAN RUBEL P E

Client Ref : TT PN - 200-16347-19001

For Professional Services Rendered through: 12/31/2019
EMAIL INVOICE TO BRIAN.RUBEL@TETRATECH.COM

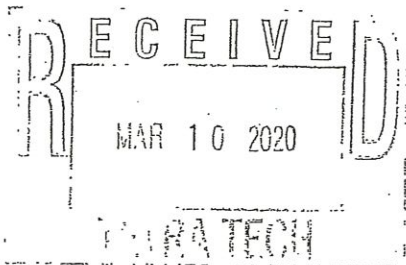
Phase Code / Name	Phase Fee	Previous Amount	Current Amount	% Complete	Total Fee Earned
0100 -- STUDY	23,068.00	722.50	1,552.50	9.86	2,275.00
	Total Fee: 23,068.00				
					Total Fee Earned To Date 2,275.00
					Less Previous Billings 722.50
					Amount Due this Invoice 1,552.50

Project Manager : PATRICK J. JUDD

Billings : 000596

129566
200-16347-19001. OIDS
sub. EXT
200 IELW AA

OK to pay when paid
B. Rubel
3/10/20



EXP



FK Engineering Associates
 30425 Stephenson Hwy
 Madison Heights, MI 48071
 (248) 817-2946

INVOICE

Invoice Date: 02/11/20
 Total Amount: \$1,010.50
 Number: 19-102-002
 Invoice Period: 12/01/19 - 01/31/20
 PO Number: **11668261**
 Project Code: 19-102
 Project: Macomb In-Line Storage

OK to Pay - 03/18/2020

Brian M. Rubel

Tetra Tech
 Brian Rubel
 710 Avis Drive - Suite 100
 Ann Arbor, MI 48108

INVOICE SUMMARY

Description	Amount
Task 1 - Study Phase.	\$970.00
Task 2 - Design Phase.	\$27.50
Task 1 - Study Phase Expenses.	\$13.00

Description	Total Budget	Remaining Budget (\$)	Prior Billing (\$)	This Invoice (\$)
Task 1 - Study Phase	\$20,000.00	\$11,165.40	\$7,851.60	\$983.00
Task 2 - Design Phase	\$87,874.00	\$87,846.50	--	\$27.50
	--	--	--	--
BUDGET TOTALS	\$107,874.00	\$99,011.90	\$7,851.60	\$1,010.50
TOTAL AMOUNT DUE				\$1,010.50

Remit payment to:
~~30425 Stephenson Hwy, Madison Heights, MI 48071~~
 Terms: Due upon receipt or per contract

184671

200-16347-19001.01BS
 SUB-EXT
 200 1EW AA





FK Engineering Associates
 30425 Stephenson Hwy
 Madison Heights, MI 48071
 (248) 817-2946

INVOICE

Tetra Tech
 Brian Rubel
 710 Avis Drive - Suite 100
 Ann Arbor, MI 48108

Invoice Date: 02/11/20
 Total Amount: \$1,010.50
 Number: 19-102-002
 Invoice Period: 12/01/19 - 01/31/20
 PO Number:
 Project Code: 19-102
 Project: Macomb In-Line Storage

INVOICE DETAILS

Source	Date	Code	Hrs / Qnt	Rate	Amount
Professional Fees					
Zachary Carr	12/03/19	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
Margaret O'Reilly	12/03/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Zachary Carr	12/06/19	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
Zachary Carr	12/11/19	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
Zachary Carr	12/18/19	02-Principal Engineer/Officer	2.50	\$145.00	\$362.50
Zachary Carr	01/14/20	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
Margaret O'Reilly	01/21/20	09-Administrative Assistant	0.25	\$55.00	\$13.75
		Task 1 - Study Phase	7.00		\$970.00
Margaret O'Reilly	12/06/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Margaret O'Reilly	12/27/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
		Task 2 - Design Phase	0.50		\$27.50
		Professional Fees	7.50		\$997.50
Reimbursable Expenses					
Zachary Carr	12/19/19	PR- Car Mileage	20.00	\$0.65	\$13.00
		Task 1 - Study Phase	--		\$13.00
		Reimbursable Expenses	--		\$13.00
		TOTAL FEES/EXPENSES	--		\$1,010.50



FK Engineering Associates
 30425 Stephenson Hwy
 Madison Heights, MI 48071
 (248) 817-2946

Tetra Tech
 Brian Rubel
 710 Avis Drive - Suite 100
 Ann Arbor, MI 48108

INVOICE

Invoice Date: 03/05/20
 Total Amount: \$593.75
 Number: 19-102-003
 Invoice Period: 02/01/20 - 02/29/20
 PO Number: 1166826.1
 Project Code: 19-102
 Project: Macomb In-Line Storage

INVOICE SUMMARY

Description	Total Budget	Remaining Budget (\$)	Prior Billing (\$)	This Invoice (\$)
Task 1 - Study Phase.				\$435.00
Task 2 - Design Phase.				\$158.75
BUDGET TOTALS	\$107,874.00	\$98,418.15	\$8,862.10	\$593.75
TOTAL AMOUNT DUE				\$593.75

Remit payment to:
 30425 Stephenson Hwy, Madison Heights, MI 48071
 Terms: Due upon receipt or per contract

#184671
 200-16347-19001.01BS
 sub-EXT
 200 1EW AA

OK to pay \$593.75
 from \$15,000
 Subcontract.
 Their budgets printed here
 are erroneous.

B. Rubel
 3/10/20
 200-16347-19001





FK Engineering Associates
 30425 Stephenson Hwy
 Madison Heights, MI 48071
 (248) 817-2946

INVOICE

Tetra Tech
 Brian Rubel
 710 Avis Drive - Suite 100
 Ann Arbor, MI 48108

Invoice Date: 03/05/20
 Total Amount: \$593.75
 Number: 19-102-003
 Invoice Period: 02/01/20 - 02/29/20
 PO Number:
 Project Code: 19-102
 Project: Macomb In-Line Storage

INVOICE DETAILS

Source	Date	Code	Hrs / Qnt	Rate	Amount
Professional Fees					
Zachary Carr	02/21/20	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Zachary Carr	02/24/20	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Zachary Carr	02/26/20	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
Zachary Carr	02/28/20	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
		Task 1 - Study Phase	3.00		\$435.00
Margaret O'Reilly	02/17/20	09-Administrative Assistant	0.25	\$55.00	\$13.75
Nicholas Bassett	02/26/20	03-Senior Project Engineer/Geologist	0.50	\$120.00	\$60.00
Nicholas Colaianne	02/28/20	06-Staff Engineer/Geologist	1.00	\$85.00	\$85.00
		Task 2 - Design Phase	1.75		\$158.75
		Professional Fees	4.75		\$593.75
		TOTAL FEES/EXPENSES			\$593.75



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/2/20
4. SET ID VP200303MA		5. POST DATE

6. VENDOR NAME (Check to be issued to) Wade Trim	7. VENDOR NUMBER V09446	8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 2017374	10. Invoice Date 2/28/2020	11. Invoice Amount \$ 120,258.91
------------------------------------------------------------	-----------------------------------	---------------------------	-------------------------------------------------------	--------------------------------------	--------------------------------------------

General Ledger			Job Ledger		OPTIONAL		19. Amount	20. DIV	21. MISC	22. Sep CK
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)				
A	8210017C	80138	80138	WO19004	8 1/2 Mile Relief	Pjt #MCW200501T, 1/25-2/21	\$ 120,258.91	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ **120,258.91** REV/09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Chapaton RTB Canal Upgrades

25. Finance Officer: *blm* 30. Drain: **8 1/2 Mile Relief**

26. Chief Deputy: *PS* 31. Project Balance: **\$307,036.65 (Grant Balance: \$1,919,162.65)**

27. Engineers: *U* 32. Staff Date: **3/10/2020**

28. Managers: *U* 33. Board Date: **4/13/2020**

29. Coordinator: *VF* 34. Select For Pay Date:

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER 19004

PROJECT NUMBER WWS-2019-002

PROJECT NAME Chapaton RTB Canal Upgrades

DRAINAGE DISTRICT Eight and One-Half Mile

CONSULTANT NAME Wade Trim Associates, Inc.

INVOICE DATE 2/28/2020

INVOICE START DATE 1/25/2020

INVOICE END DATE 2/21/2020

ORIGINAL CONTRACT AMOUNT	\$ 977,611.00
CHANGE ORDER TOTAL	\$ 410,263.00
Change Order No. 1	\$ 75,000.00
Change Order No. 2	\$ 335,263.00
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 1,387,874.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 960,578.44
TOTAL AMOUNT DUE THIS INVOICE	\$ 120,258.91
TOTAL BUDGET REMAINING	\$ 307,036.65
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



25251 Northline Road • Taylor, MI 48180
734.947.9700 • www.wadetrtrim.com

INVOICE

Terms: Net 30 Days
1.5% Per Month After 30 Days
18% Annual Rate

ACH payments accepted. Send inquiries to remit@wadetrtrim.com

Remit Payment To: Wade Trim, 25251 Northline Road, Taylor, MI 48180

Attention: Vince Astorino
Operations and Flow Manager
Macomb County Public Works
21777 Dunham Road
Clinton Township, MI 48036

Invoice : 2017374
Invoice Date : 2/28/2020
Project : MCW200501T
Project Name : Chapaton RTB Canal Upgrades

For Professional Services Rendered For 1/25/2020 Through 2/21/2020

** All subconsultant invoices marked up 5% **

		Billings				
		Fee	Available	To Date	Previous	Current
		1,387,874.00	427,295.56	1,080,837.35	960,578.44	120,258.91
Rate Labor	79,933.75					
Expenses	40,059.67					
Unit Rate Expense	265.49					
Total Expense	40,325.16					

Current Billings	<u>120,258.91</u>
Amount Due This Bill	<u>120,258.91</u>

Total Fee : 1,387,874.00
To Date Billings : 1,080,837.35
Total Remaining : 307,036.65

Outstanding Receivables	Invoice Number	Date	Amount	Balance Due
	2017103	1/31/2020	96,050.13	<u>96,050.13</u>
				96,050.13

1A1 - Project Management

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Professional				
John Arvai	1/27/2020	1.25	215.0000	268.75
	1/28/2020	1.00	215.0000	215.00
	1/29/2020	2.00	215.0000	430.00
	2/3/2020	2.00	215.0000	430.00
	2/5/2020	1.00	215.0000	215.00
	2/7/2020	1.00	215.0000	215.00
	2/10/2020	1.00	215.0000	215.00
	2/18/2020	2.00	215.0000	430.00
	2/19/2020	1.00	215.0000	215.00
	2/20/2020	0.50	215.0000	107.50
	2/21/2020	1.00	215.0000	215.00
Total Senior Professional		13.75		2,956.25

Total Rate Labor

2,956.25

Total Bill Task: 1A1 - Project Management

2,956.25

1A2 - Project Management Support

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer I				
Jason Obrycki-Smith	1/28/2020	4.00	100.0000	400.00
	1/30/2020	2.00	100.0000	200.00
	2/4/2020	1.00	100.0000	100.00
	2/5/2020	4.00	100.0000	400.00
	2/6/2020	4.00	100.0000	400.00
	2/7/2020	2.00	100.0000	200.00
	2/11/2020	3.00	100.0000	300.00
	2/12/2020	2.00	100.0000	200.00
	2/14/2020	1.00	100.0000	100.00
Total Engineer I		23.00		2,300.00

Professional Engineer IV

Oskar E Nordstrom

	1/28/2020	3.00	190.0000	570.00
	2/17/2020	1.00	190.0000	190.00
	2/19/2020	1.00	190.0000	190.00
Total Professional Engineer IV		5.00		950.00

Project Aide II

Melanie A Phillips

	2/10/2020	0.50	95.0000	47.50
--	-----------	------	---------	-------

Total Rate Labor

3,297.50

Total Bill Task: 1A2 - Project Management Support

3,297.50

1EXP - Project Management Expenses

Expenses

<i>Account / Vendor</i>	<i>Doc Number</i>	<i>Date</i>	<i>Cost</i>	<i>Multiplier</i>	<i>Amount</i>
Architectural/Engineering Supplies					
Jason Obrycki-Smith	ER000152886	2/1/2020	11.99	1.100	13.19

1EXP - Project Management Expenses

Total Expenses

13.19

Unit Rate Expenses

Account / Unit / Vendor

Employee Mileage - Regular Rate

Employee Mileage

John Arvai

Quantity

Rate

Amount

62.00

0.5700

35.34

Total Unit Rate Expenses

35.34

Total Bill Task: 1EXP - Project Management Expenses

48.53

3E1 - 90% Process

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Engineering Specialist II

Robert J Marker

2/5/2020

1.00

170.0000

170.00

Principal

Steven A Kalinowski

1/27/2020

1.00

230.0000

230.00

1/29/2020

1.00

230.0000

230.00

Total Principal

2.00

460.00

Project Specialist II

John K Golden

1/29/2020

1.50

150.0000

225.00

2/3/2020

1.00

150.0000

150.00

Total Project Specialist II

2.50

375.00

Senior Professional

Jeffrey W Reynhout

1/28/2020

2.00

215.0000

430.00

1/31/2020

4.00

215.0000

860.00

2/3/2020

2.00

215.0000

430.00

2/5/2020

1.00

215.0000

215.00

Total Senior Professional

9.00

1,935.00

Total Rate Labor

2,940.00

Unit Rate Expenses

Account / Unit / Vendor

Equipment Usage Charges

Oce Printer

Jack R Simmons

Quantity

Rate

Amount

72.00

1.4000

100.80

Total Unit Rate Expenses

100.80

Total Bill Task: 3E1 - 90% Process

3,040.80

3E10 - 90% Constructability Review

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Principal

Steven A Kalinowski

2/6/2020

1.00

230.0000

230.00

2/7/2020

1.00

230.0000

230.00

2/10/2020

1.00

230.0000

230.00

2/11/2020

1.00

230.0000

230.00

Total Principal

4.00

920.00

3E10 - 90% Constructability Review

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Project Specialist III				
Daniel T DiPonio	2/4/2020	3.00	175.0000	525.00
	2/5/2020	2.00	175.0000	350.00
	2/6/2020	2.00	175.0000	350.00
	2/7/2020	1.00	175.0000	175.00
	2/10/2020	3.00	175.0000	525.00
		-----		-----
Total Project Specialist III		11.00		1,925.00
Senior Professional				
John Arvai	2/10/2020	0.50	215.0000	107.50
	2/11/2020	0.75	215.0000	161.25
	2/18/2020	1.00	215.0000	215.00
		-----		-----
Total Senior Professional		2.25		483.75
			Total Rate Labor	3,328.75
Total Bill Task: 3E10 - 90% Constructability Review				3,328.75

3E12 - 90% Engineer's Cost Estimate

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
LA Staff				
Catherine A Dennis	2/13/2020	1.00	100.0000	100.00
Professional LA III				
Scot Lautzenheiser	2/11/2020	0.25	150.0000	37.50
	2/12/2020	0.50	150.0000	75.00
		-----		-----
Total Professional LA III		0.75		112.50
Senior Professional				
John Arvai	2/10/2020	0.50	215.0000	107.50
	2/11/2020	1.00	215.0000	215.00
	2/13/2020	2.50	215.0000	537.50
	2/18/2020	1.00	215.0000	215.00
		-----		-----
Total Senior Professional		5.00		1,075.00
			Total Rate Labor	1,287.50
Total Bill Task: 3E12 - 90% Engineer's Cost Estimate				1,287.50

3E13 - 90% Meetings

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer I				
Jason Obrycki-Smith	1/29/2020	1.50	100.0000	150.00
	1/31/2020	5.00	100.0000	500.00
		-----		-----
Total Engineer I		6.50		650.00
Principal				
Steven A Kalinowski	1/31/2020	3.00	230.0000	690.00

3E13 - 90% Meetings

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Professional				
John Arvai	1/28/2020	0.50	215.0000	107.50
	1/31/2020	3.50	215.0000	752.50
	2/6/2020	1.50	215.0000	322.50
Total Senior Professional		5.50		1,182.50
Total Rate Labor				2,522.50
Total Bill Task: 3E13 - 90% Meetings				2,522.50

3E14 - 90% Review Workshop

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer I				
Jason Obrycki-Smith	2/12/2020	2.00	100.0000	200.00
Engineer III				
Thomas J Stark	2/11/2020	3.00	130.0000	390.00
Engineer IV				
Tyler Barkho	2/12/2020	2.00	150.0000	300.00
LA Staff				
Catherine A Dennis	2/12/2020	2.25	100.0000	225.00
Principal				
Steven A Kalinowski	2/12/2020	3.00	230.0000	690.00
Senior Professional				
James K White	2/12/2020	2.00	215.0000	430.00
	2/13/2020	4.00	215.0000	860.00
John Arvai	2/12/2020	3.00	215.0000	645.00
Jeffrey W Reynhout	2/12/2020	2.00	215.0000	430.00
Total Senior Professional		11.00		2,365.00
Total Rate Labor				4,170.00
Total Bill Task: 3E14 - 90% Review Workshop				4,170.00

3E2 - 90% Electrical & I&C

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer I				
Jason Obrycki-Smith	2/6/2020	0.25	100.0000	25.00
Engineer III				
Thomas J Stark	1/27/2020	8.00	130.0000	1,040.00
	1/28/2020	8.00	130.0000	1,040.00
	1/29/2020	8.00	130.0000	1,040.00
	2/3/2020	8.00	130.0000	1,040.00
	2/4/2020	8.00	130.0000	1,040.00
	2/5/2020	8.00	130.0000	1,040.00
	2/6/2020	8.00	130.0000	1,040.00
	2/7/2020	4.00	130.0000	520.00
Total Engineer III		60.00		7,800.00

3E2 - 90% Electrical & I&C

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineering Specialist II				
Robert J Marker	2/5/2020	1.00	170.0000	170.00
Total Rate Labor				7,995.00
Total Bill Task: 3E2 - 90% Electrical & I&C				7,995.00

3E3 - 90% Landscape/Green Infrastructure

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineering Specialist II				
Robert J Marker	2/3/2020	1.00	170.0000	170.00
LA Staff				
Catherine A Dennis	1/28/2020	1.25	100.0000	125.00
	1/30/2020	1.00	100.0000	100.00
	1/31/2020	2.50	100.0000	250.00
	2/3/2020	0.50	100.0000	50.00
	2/4/2020	1.00	100.0000	100.00
	2/5/2020	1.00	100.0000	100.00
	2/6/2020	0:50	100.0000	50.00
Melissa O Hernandez	2/4/2020	0.50 OT	150.0000	75.00
	2/4/2020	1.50	100.0000	150.00
Total Melissa O Hernandez		2.00		225.00
Total LA Staff		9.75		1,000.00
Principal				
Steven A Kalinowski	1/30/2020	1.00	230.0000	230.00
Professional LA III				
Scot Lautzenheiser	1/27/2020	0.25	150.0000	37.50
	1/30/2020	0.50	150.0000	75.00
	1/31/2020	0.25	150.0000	37.50
	2/3/2020	0.25	150.0000	37.50
	2/4/2020	0.25	150.0000	37.50
	2/7/2020	0.25	150.0000	37.50
Total Professional LA III		1.75		262.50
Total Rate Labor				1,662.50
Total Bill Task: 3E3 - 90% Landscape/Green Infrastructure				1,662.50

3E16 - 90% Easement Assistance

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Principal				
Steven A Kalinowski	1/31/2020	1.00	230.0000	230.00
	2/4/2020	1.00	230.0000	230.00
Total Principal		2.00		460.00

3E16 - 90% Easement Assistance

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Professional				
John Arvai	1/31/2020	0.25	215.0000	53.75
	2/3/2020	0.50	215.0000	107.50
	2/4/2020	0.50	215.0000	107.50
	2/5/2020	0.25	215.0000	53.75
Total Senior Professional		1.50		322.50
Total Rate Labor				782.50
Total Bill Task: 3E16 - 90% Easement Assistance				782.50

3E4 - 90% Structural

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
CADD Technician I				
Rachelle Setser	2/3/2020	5.00	70.0000	350.00
	2/4/2020	8.00	70.0000	560.00
	2/5/2020	8.00	70.0000	560.00
Total CADD Technician I		21.00		1,470.00
Engineer I				
Jason Obrycki-Smith	1/27/2020	1.00	100.0000	100.00
	2/6/2020	0.25	100.0000	25.00
Total Engineer I		1.25		125.00
Engineer IV				
Tyler Barkho	1/27/2020	4.00	150.0000	600.00
	1/28/2020	6.00	150.0000	900.00
	1/29/2020	2.00	150.0000	300.00
	1/30/2020	7.00	150.0000	1,050.00
	2/3/2020	4.00	150.0000	600.00
	2/4/2020	4.00	150.0000	600.00
	2/5/2020	4.00	150.0000	600.00
Total Engineer IV		31.00		4,650.00
Engineering Specialist II				
Robert J Marker	2/4/2020	0.50	170.0000	85.00
	2/5/2020	0.50	170.0000	85.00
Total Engineering Specialist II		1.00		170.00
Principal				
Steven A Kalinowski	1/27/2020	1.00	230.0000	230.00
	1/30/2020	1.00	230.0000	230.00
Total Principal		2.00		460.00
Senior Professional				
James K White	1/31/2020	4.00	215.0000	860.00
	2/5/2020	4.00	215.0000	860.00

3E4 - 90% Structural

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Senior Professional

James K White

2/6/2020

2.00

215.0000

430.00

2/7/2020

4.00

215.0000

860.00

14.00

3,010.00

Total Senior Professional

Total Rate Labor

9,885.00

9,885.00

Total Bill Task: 3E4 - 90% Structural

3E5 - 90% Mechanical

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Engineer I

Jason Obrycki-Smith

1/27/2020

5.00

100.0000

500.00

1/28/2020

4.00

100.0000

400.00

1/30/2020

1.00

100.0000

100.00

2/3/2020

6.00

100.0000

600.00

2/4/2020

8.00

100.0000

800.00

2/5/2020

5.00

100.0000

500.00

29.00

2,900.00

Total Engineer I

Total Rate Labor

2,900.00

2,900.00

Total Bill Task: 3E5 - 90% Mechanical

3E6 - 90% Civil / Site

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Engineer IV

Tyler Barkho

1/27/2020

4.00

150.0000

600.00

1/28/2020

2.00

150.0000

300.00

1/29/2020

2.00

150.0000

300.00

1/30/2020

0.50

150.0000

75.00

1/31/2020

8.00

150.0000

1,200.00

2/3/2020

4.00

150.0000

600.00

2/4/2020

3.00

150.0000

450.00

2/5/2020

3.00

150.0000

450.00

2/6/2020

3.00

150.0000

450.00

2/7/2020

3.00

150.0000

450.00

32.50

4,875.00

Total Engineer IV

Engineering Specialist II

Robert J Marker

2/5/2020

1.00

170.0000

170.00

Principal

Steven A Kalinowski

1/27/2020

1.00

230.0000

230.00

1/28/2020

1.00

230.0000

230.00

1/30/2020

1.00

230.0000

230.00

1/31/2020

1.00

230.0000

230.00

4.00

920.00

Total Principal

3E6 - 90% Civil / Site

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Professional Engineer II				
Bradford Barber	1/30/2020	1.00	145.0000	145.00
	1/31/2020	4.00	145.0000	580.00
		5.00		725.00
Total Professional Engineer II				
				6,690.00
Total Rate Labor				6,690.00
Total Bill Task: 3E6 - 90% Civil / Site				6,690.00

3E7 - 90% QA/QC

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Principal				
Steven A Kalinowski	2/3/2020	1.00	230.0000	230.00
	2/4/2020	1.00	230.0000	230.00
	2/5/2020	1.00	230.0000	230.00
	2/11/2020	1.00	230.0000	230.00
		4.00		920.00
Total Principal				
				920.00
Project Specialist III				
Daniel T DiPonio	2/12/2020	6.00	175.0000	1,050.00
	2/13/2020	6.00	175.0000	1,050.00
	2/14/2020	3.00	175.0000	525.00
		15.00		2,625.00
Total Project Specialist III				
				3,545.00
Total Rate Labor				3,545.00
Total Bill Task: 3E7 - 90% QA/QC				3,545.00

3E8 - 90% Administrative

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Project Aide II				
Jack R Simmons	1/31/2020	0.50	95.0000	47.50
Total Rate Labor				47.50

Unit Rate Expenses

<i>Account / Unit / Vendor</i>	<i>Quantity</i>	<i>Rate</i>	<i>Amount</i>
Equipment Usage Charges			
Oce Printer			
Jack R Simmons	70.00	1.4000	98.00
Total Unit Rate Expenses			98.00
Total Bill Task: 3E8 - 90% Administrative			145.50

3E9 - 90% Permit Assistance

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Principal				
Steven A Kalinowski	1/29/2020	1.00	230.0000	230.00
	2/3/2020	1.00	230.0000	230.00
	2/6/2020	1.00	230.0000	230.00

3E9 - 90% Permit Assistance

Rate Labor

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Principal				
Steven A Kalinowski	2/7/2020	1.00	230.0000	230.00
	2/10/2020	1.00	230.0000	230.00
	2/11/2020	1.00	230.0000	230.00
	2/13/2020	1.00	230.0000	230.00
	2/17/2020	1.00	230.0000	230.00
	2/21/2020	1.00	230.0000	230.00
Anthony C Igwe	1/29/2020	3.00	230.0000	690.00
	1/30/2020	2.00	230.0000	460.00
	2/4/2020	1.00	230.0000	230.00
	2/5/2020	4.00	230.0000	920.00
	2/6/2020	3.00	230.0000	690.00
	2/7/2020	5.00	230.0000	1,150.00
	2/10/2020	3.00	230.0000	690.00
	2/11/2020	3.00	230.0000	690.00
	2/12/2020	1.00	230.0000	230.00
	2/21/2020	1.00	230.0000	230.00
		-----		-----
Total Principal		35.00		8,050.00
Project Aide II				
Therese A Colosimo	2/7/2020	1.00	95.0000	95.00
	2/11/2020	0.50	95.0000	47.50
		-----		-----
Total Project Aide II		1.50		142.50
Senior Professional				
John Arvai	1/30/2020	0.50	215.0000	107.50
	1/31/2020	0.25	215.0000	53.75
	2/5/2020	0.25	215.0000	53.75
	2/11/2020	2.00	215.0000	430.00
	2/12/2020	0.50	215.0000	107.50
David L Anthony	2/7/2020	2.00	215.0000	430.00
	2/10/2020	3.00	215.0000	645.00
	2/11/2020	1.50	215.0000	322.50
		-----		-----
Total Senior Professional		10.00		2,150.00
			Total Rate Labor	10,342.50
Total Bill Task: 3E9 - 90% Permit Assistance				10,342.50

3EXP - Expenses

Unit Rate Expenses

<u>Account / Unit / Vendor</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Employee Mileage - Regular Rate			
Employee Mileage			
Jason Obrycki-Smith	55.00	0.5700	31.35

Total Unit Rate Expenses			31.35

3F13 - 100% Meetings

Rate Labor

Class / Employee

	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Principal				
Steven A Kalinowski	2/21/2020	3.00	230.0000	690.00
Total Rate Labor				690.00

3F2 - 100% Electrical & I&C

Rate Labor

Class / Employee

Engineer III

	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Thomas J Stark	2/17/2020	8.00	130.0000	1,040.00
	2/18/2020	8.00	130.0000	1,040.00
	2/19/2020	8.00	130.0000	1,040.00
	2/20/2020	8.00	130.0000	1,040.00
	2/21/2020	8.00	130.0000	1,040.00
Total Engineer III		40.00		5,200.00
Total Rate Labor				5,200.00

Total Bill Task: 3F2 - 100% Electrical & I&C

5,200.00

3F3 - 100% Landscape/Green Infrastructure

Rate Labor

Class / Employee

LA Staff

	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Catherine A Dennis	2/21/2020	1.00	100.0000	100.00
Total Rate Labor				100.00

3F4 - 100% Structural

Rate Labor

Class / Employee

CADD Technician I

	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Rachelle Setser	2/10/2020	4.00	70.0000	280.00
Engineer IV				
Tyler Barkho	2/10/2020	2.00	150.0000	300.00
	2/12/2020	2.00	150.0000	300.00
	2/19/2020	5.00	150.0000	750.00
	2/20/2020	6.00	150.0000	900.00
Total Engineer IV		15.00		2,250.00
Total Rate Labor				2,530.00

Total Bill Task: 3F4 - 100% Structural

2,530.00

3F6 - 100% Civil / Site

Rate Labor

Class / Employee

CADD Technician I

	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Rachelle Setser	2/10/2020	4.00	70.0000	280.00
	2/11/2020	8.00	70.0000	560.00
	2/12/2020	8.00	70.0000	560.00
Total CADD Technician I		20.00		1,400.00

3F6 - 100% Civil / Site

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer IV				
Tyler Barkho	2/10/2020	2.00	150.0000	300.00
	2/11/2020	4.00	150.0000	600.00
	2/21/2020	8.00	150.0000	1,200.00
Total Engineer IV		14.00		2,100.00
Principal				
Steven A Kalinowski	2/20/2020	1.00	230.0000	230.00
	2/21/2020	1.00	230.0000	230.00
Total Principal		2.00		460.00
Total Rate Labor				3,960.00
Total Bill Task: 3F6 - 100% Civil / Site				3,960.00

6A1 - Applied Science

Expenses

<i>Account / Vendor</i>	<i>Doc Number</i>	<i>Date</i>	<i>Cost</i>	<i>Multiplier</i>	<i>Amount</i>
Subconsultants					
Applied Science Inc	0020017610	1/25/2020	8,685.00	1.050	9,119.25
Total Expenses					9,119.25

6A2 - NTH Consultants

Expenses

<i>Account / Vendor</i>	<i>Doc Number</i>	<i>Date</i>	<i>Cost</i>	<i>Multiplier</i>	<i>Amount</i>
Subconsultants					
NTH Consultants LTD	0020017611	2/14/2020	22,991.25	1.050	24,140.81
Total Expenses					24,140.81

6A3 - MKSK

Expenses

<i>Account / Vendor</i>	<i>Doc Number</i>	<i>Date</i>	<i>Cost</i>	<i>Multiplier</i>	<i>Amount</i>
Subconsultants					
MKSK INC	0020017545	12/31/2019	4,963.26	1.050	5,211.42
Total Expenses					5,211.42

6A4 - ASTI

Expenses

<i>Account / Vendor</i>	<i>Doc Number</i>	<i>Date</i>	<i>Cost</i>	<i>Multiplier</i>	<i>Amount</i>
Subconsultants					
ASTI Environmental Services	0020017609	2/20/2020	1,500.00	1.050	1,575.00
Total Expenses					1,575.00

7A1 - Flushing System Study

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer I				
Tyler S Davidek	1/29/2020	1.50	100.0000	150.00
	2/17/2020	2.00	100.0000	200.00
	2/18/2020	2.00	100.0000	200.00

7A1 - Flushing System Study

Rate Labor

Class / Employee

Engineer I

Tyler S Davidek

	Date	Hours	Rate	Amount
	2/19/2020	4.00	100.0000	400.00
	2/20/2020	4.00	100.0000	400.00
	2/21/2020	3.00	100.0000	300.00
Total Engineer I		16.50		1,650.00

Senior Professional

John Arvai

	2/7/2020	0.50	215.0000	107.50
	2/10/2020	0.25	215.0000	53.75
	2/13/2020	0.50	215.0000	107.50
	2/20/2020	0.50	215.0000	107.50

Jeffrey W Reynhout

	2/20/2020	1.00	215.0000	215.00
	2/21/2020	4.00	215.0000	860.00
Total Senior Professional		6.75		1,451.25

Total Rate Labor

3,101.25

Total Bill Task: 7A1 - Flushing System Study

3,101.25

Total Project: MCW200501T - Chapaton RTB Canal Upgrades

120,258.91

Work Description for Chapaton RTB Canal Upgrade:

Project management and coordination of design activities, staff and team meetings. Prepared monthly invoice and progress report. Attended Progress meeting on January 29, 2020. Advanced drawings to 90% level and provided draft 90% documents for MCPWO review and comment. Attended 90% design document workshop with MCPWO on February 12, 2020. Updating documents and progressing design to 100%. Provided draft EGLE response and continued additional permitting efforts. Continued assistance with shore club property boundary, survey and easement. Progressed design drawings and specifications towards 90% level. Continued Chapaton RTB flushing system study work.



Applied Science, Inc.

300 River Place Suite 5400 Detroit, MI 48207
Phone: (313) 567-3990 Fax: (313) 567-3750
www.asi-detroit.com

February 6, 2020

Invoice #8 (ASI Inv. #7516)

John Arvai, P.E.
Wade Trim
25251 Northline Road
Taylor, Michigan 48180

RE: RTB Canal Upgrades
(ASI Job No. 1831)

Services provided from November 17, 2019 through January 25, 2020.

<u>Employee</u>	<u>Classification</u>	<u>Direct Labor Hrs.</u>	<u>Hourly Rate</u>	<u>Total</u>
John Michalski	Sr. Project Manager	23.0	\$ 155.00	\$ 3,565.00
Paul Szaga	Project Engineer	23.0	\$ 115.00	\$ 2,645.00
Doria Herold Jackson	CADD	4.0	\$ 96.00	\$ 384.00
Total this invoice:				\$ 6,594.00
Previous Amount Invoiced:				\$ 60,195.00
Total Invoiced To-Date:				\$ 66,789.00
Not To Exceed:				\$ 68,005.00
Amount Remaining:				\$ 1,216.00
EGLE Permit Application Fee:				\$ 2,091.00
Total Amount Due This Invoice:				\$ 8,685.00



Time by Project

11/17/2019 (Sun) - 1/25/2020 (Sat)

(Single Project)

	Hours	Date	Task	Type	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Approver	Status	Description
Macomb Co. Public Works:1831 Chapaton Canal & Gate														
Herold-Jackson, Doria A.														
Subtotal	4													
Michalski, John R.														
	5	11/17/19	1831 Chapaton Canal & Gate:1-001 Proposal	OT	0	0	3	1	1	0	0	CEC	12/02/19	
	2	11/24/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	1	1	0	0	0	CEC	12/02/19	
	4	12/01/19	1831 Chapaton Canal & Gate:1-001 Proposal	OT	0	0	1	0	2	1	0	CEC	12/16/19	
	3	12/08/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	1	1	0	0	1	0	CEC	12/16/19	
	1	12/22/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	0	0	1	0	0	CEC	12/30/19	
	3	01/05/20	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	1	0	0	2	0	0	CEC	01/13/20	
	4.50	01/12/20	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	0	1	1.250	0	0	CEC	01/27/20	
	0.50	01/19/20	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	0	0.50	0	0	0	CEC	01/27/20	
Subtotal	23													
Szlega, Paul J.														
	11	11/17/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	3	4	4	0	0	CEC	12/02/19	Canal filling and overflow analysis
	12	12/01/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	4	4	4	4	0	0	CEC	12/16/19	Canal filling analysis
Subtotal	23													
Subtotal	50													
Total	50													



NTH Consultants, Ltd.
 Infrastructure Engineering and
 Environmental Services

INVOICE

Wade-Trim Associates, Inc.
 25251 Northline
 Taylor MI 48180

Invoice # : 621590
Project : 62190022
Invoice Group : **
Invoice Date : 02/18/2020

Attention: Accounts Payable

For Professional Services Rendered through: 2/14/2020

P.O./Ref #: Authorization per NTH/Wade Trim Standard Subconsultant Agreement dated February 28, 2019.

Engineering services related tot he expansion of the Chapaton Basin

<u>Phase Name</u>	<u>Maximum Budget</u>	<u>Previous Billings</u>	<u>Current Charges</u>	<u>Remaining Budget</u>
10 -- Project Management	28,890.00	14,728.33	322.50	13,839.17
20 -- *C* - Preliminary Design	99,060.00	99,031.49	0.00	28.51
30 -- Final Design	91,200.00	38,634.77	22,668.75	29,896.48
40 -- Bidding Assistance	9,360.00	0.00	0.00	9,360.00
Project Total	228,510.00	152,394.59	22,991.25	53,124.16

Amount Due This Invoice : \$ 22,991.25

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459
 Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services

INVOICE

Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades

Invoice # : 621590

Phase : 10 -- Project Management

Rate Schedule Labor	Date	Hours	Rate	Amount
Senior Officer				
Roarty, Charles	01/20/2020	0.50	215.00	107.50
	01/26/2020	1.00	215.00	215.00
Rate Schedule Labor		1.50		322.50
Total Phase : 10 -- Project Management			Labor :	322.50
			Expense :	0.00

Phase : 30 -- Final Design

Rate Schedule Labor	Date	Hours	Rate	Amount
Cadd Operator				
Bryan, Stephen H.	01/23/2020	2.00 Overtime	85.00	170.00
	01/23/2020	5.00	85.00	425.00
	01/24/2020	0.50 Overtime	85.00	42.50
	01/24/2020	1.25	85.00	106.25
	01/27/2020	0.50	85.00	42.50
	02/04/2020	1.50 Overtime	85.00	127.50
	02/04/2020	1.50	85.00	127.50
	02/05/2020	1.50	85.00	127.50
Project Professional				
Lobbestael, Adam	01/18/2020	1.00	120.00	120.00
	01/20/2020	3.50	120.00	420.00
	01/22/2020	6.00	120.00	720.00
	01/23/2020	3.50	120.00	420.00
	01/24/2020	2.00	120.00	240.00
	01/27/2020	0.50	120.00	60.00
	01/29/2020	7.00	120.00	840.00
	01/30/2020	2.00	120.00	240.00
	01/31/2020	3.00	120.00	360.00
	02/01/2020	3.00	120.00	360.00
	02/03/2020	6.00	120.00	720.00
	02/04/2020	1.00	120.00	120.00
	02/05/2020	2.00	120.00	240.00
	02/07/2020	2.50	120.00	300.00
	02/08/2020	4.00	120.00	480.00
02/10/2020	1.50	120.00	180.00	
02/12/2020	3.50	120.00	420.00	
02/13/2020	3.00	120.00	360.00	

REMIT TO: NTH Consultants, Ltd. - 41780 Six Mile Road - Suite 200 - Northville MI - 48168-3459
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Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades

Invoice # : 621590

Phase : 30 -- Final Design

<u>Rate Schedule Labor</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Project Professional				
Hassan, Samer	01/20/2020	4.00	120.00	480.00
	01/21/2020	3.00	120.00	360.00
	01/22/2020	3.00	120.00	360.00
	01/23/2020	2.00	120.00	240.00
	01/24/2020	4.00	120.00	480.00
	01/27/2020	2.00	120.00	240.00
	01/28/2020	3.00	120.00	360.00
	01/29/2020	3.00	120.00	360.00
	01/30/2020	3.50	120.00	420.00
	02/04/2020	2.00	120.00	240.00
	02/06/2020	1.00	120.00	120.00
	02/07/2020	1.00	120.00	120.00
	02/11/2020	4.50	120.00	540.00
	02/12/2020	2.00	120.00	240.00
	Senior Officer			
Roarty, Charles	01/20/2020	2.00	215.00	430.00
	01/21/2020	0.50	215.00	107.50
	01/22/2020	0.50	215.00	107.50
	01/24/2020	1.50	215.00	322.50
	01/31/2020	0.50	215.00	107.50
	02/03/2020	0.50	215.00	107.50
	02/04/2020	0.50	215.00	107.50
	02/11/2020	1.00	215.00	215.00
	02/12/2020	3.50	215.00	752.50
Sr Staff Professional				
Brehmer, Anthony	01/20/2020	1.50	100.00	150.00
	01/22/2020	0.50	100.00	50.00
	01/23/2020	1.00	100.00	100.00
	02/03/2020	1.00	100.00	100.00
Granger, Lauren	01/20/2020	10.00	100.00	1,000.00
	01/21/2020	5.00	100.00	500.00
	01/22/2020	5.50	100.00	550.00
	01/23/2020	8.00	100.00	800.00
	01/24/2020	7.50	100.00	750.00
	01/27/2020	7.50	100.00	750.00
	01/28/2020	8.00	100.00	800.00
	01/29/2020	5.50	100.00	550.00
	01/31/2020	5.00	100.00	500.00

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services

INVOICE

Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades

Invoice # : 621590

Phase : 30 -- Final Design

<u>Rate Schedule Labor</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Sr Staff Professional				
Granger, Lauren	02/04/2020	1.00	100.00	100.00
	02/05/2020	1.00	100.00	100.00
	02/10/2020	0.50	100.00	50.00
	02/11/2020	4.50	100.00	450.00
	02/12/2020	7.00	100.00	700.00
Rate Schedule Labor		197.25		22,586.25

<u>Unit Pricing Expenses</u>	<u>Units</u>	<u>Rate</u>	<u>Amount</u>
Per Unit Expenses			
CADD Supplies	13.75 HOUR(S) @	6.00	82.50
Unit Pricing			82.50

Total Phase : 30 -- Final Design

Labor :	22,586.25
Expense :	82.50

Total Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades **22,991.25**

REMIT TO: NTH Consultants, Ltd. - 41780 Six Mile Road - Suite 200 - Northville MI - 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



462 South Ludlow Alley
 Columbus, OH 43215
 614-621-2796

Wade Trim Associates
 John Arvai
 jarvai@wadetrim.com
 25251 Northline Road
 Taylor, MI 48180

Invoice number 2191654
 Date 01/17/2020

Project **k18101 St Clair Shores, Chapaton CSO Basin**

Professional Services for the Period ended December 31, 2019:

****Service Summary****

Professional Fees

Standard Professional Services
 Preliminary - Final Design

	Hours	Rate	Billed Amount
Associate	3.50	142.36	498.26
Landscape Architect II	37.00	115.00	4,255.00
Principal	1.00	210.00	210.00
Phase subtotal	41.50		4,963.26
Standard Professional Services subtotal			4,963.26
Professional Fees subtotal	41.50		4,963.26
Invoice total			4,963.26



Wade Trim Associates
 Project k18101 St Clair Shores, Chapaton CSO Basin

Invoice number 2191654
 Date 01/17/2020

Invoice Summary

Description	Contract Amount	Prior Billed	Total Billed	Current Billed
Standard Professional Services				
Preliminary - Final Design	24,380.00	18,817.50	23,780.76	4,963.26
Reimbursable Expenses				
Reimbursable Expenses	0.00	599.24	599.24	0.00
Total	24,380.00	19,416.74	24,380.00	4,963.26

Aging Summary

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
2191568	12/24/2019	4,011.39	4,011.39				
2191654	01/17/2020	4,963.26	4,963.26				
Total		8,974.65	8,974.65	0.00	0.00	0.00	0.00

Approved by:

Christopher E. Hostettler, C.P.A.
 C.F.O.

Professional Services for the Period ended December 31, 2019:

- Coordination with Wade Trim team (structural, grading, wetland)
- Workshop with design team on 1/14
- 90% Submittal and documentation Review



Environmental Services
Since 1985

ASTI Environmental
P.O. Box 2160
Brighton, MI 48116-2160
810-225-2800
Fax 810-225-3800

INVOICE

WADE TRIM
25251 NORTHLINE ROAD
TAYLOR, MI 48180
ATTN: JOHN ARVAL, PE

INV. DATE: 02/14/20
INVOICE # : 035579
PROJECT # : 19-0101-0556
PERIOD END: 02/01/20
CLIENT REF:

CHAPATON CANAL BIOLOGICAL CHARACTER

~~**NOTE: 2% DISCOUNT FOR NET 10 DAYS**~~

TERMS: NET 15 DAYS

FOR PROFESSIONAL SERVICES PER CONTRACT DATED SEPTEMBER 16, 2019: MEETING
WITH EGLE JANUARY 17, 2020.

AMOUNT DUE THIS INVOICE: 1,500.00

A Monthly Service Charge of 1.5% Will Be Applied to Delinquent Accounts



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 3/2/20
4. SET ID VP 200303 NA	5. POST DATE	

PARENT RECORD INFORMATION		
6. VENDOR NAME (Check to be issued to) Waide Trim	7. VENDOR NUMBER V09446	8. ADDR CODE 02
9. Invoice No (MAX = 16 CHARACTERS) 2017376	10. Invoice Date 2/28/2020	11. Invoice Amount \$ 10,406.12

General Ledger			Job Ledger			OPTIONAL			19. Amount	20. DIV	21. MISC	22. Sep CK
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)						
A	8210017M	80138	80138	WO19073	8 1/2 Mile Relief	Pjt #MCW200601T, thru 2/28/20	\$	10,406.12	GEN			
B												
C												
D												
E												
F												
G												

23. Total: \$ **10,406.12** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Chapaton RTB Disinfection Improvements

25. Finance Officer:	<i>hkm</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AS</i>	31. Project Balance:	\$93,968.88
27. Engineers:		32. Staff Date:	3/10/2020
28. Managers:	<i>VR</i>	33. Board Date:	4/13/2020
29. Coordinator:	<i>KL</i>	34. Select For Pay Date:	

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	19073
PROJECT NUMBER	WWS-2019-017
PROJECT NAME	Chapaton RTB Disinfection Improvements
DRAINAGE DISTRICT	Eight and One-Half Mile
CONSULTANT NAME	Wade Trim Associates, Inc.
INVOICE DATE	2/28/2020
INVOICE START DATE	1/25/2020
INVOICE END DATE	2/21/2020
ORIGINAL CONTRACT AMOUNT	\$ 107,780.00
CHANGE ORDER TOTAL	\$ -
Change Order No. 1	
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 107,780.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 3,405.00
TOTAL AMOUNT DUE THIS INVOICE	\$ 10,406.12
TOTAL BUDGET REMAINING	\$ 93,968.88
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



25251 Northline Road • Taylor, MI 48180
734.947.9700 • www.wadetrim.com

INVOICE

Terms: Net 30 Days
1.5% Per Month After 30 Days
18% Annual Rate

ACH payments accepted. Send inquiries to remit@wadetrim.com

Remit Payment To: Wade Trim, 25251 Northline Road, Taylor, MI 48180

Attention: Vince Astorino
Operations and Flow Manager
Macomb County Public Works
21777 Dunham Road
Clinton Township, MI 48036

Invoice : 2017376
Invoice Date : 2/28/2020
Project : MCW200601T
Project Name : Chapaton RTB Disinfection
Improvements

For Professional Services Rendered For 1/25/2020 Through 2/21/2020

		Billings			
	Fee	Available	To Date	Previous	Current
Rate Labor	10,340.00				
Unit Rate Expense	66.12				
		107,780.00	104,375.00	13,811.12	3,405.00
					10,406.12
					10,406.12
					10,406.12

Total Fee : 107,780.00
To Date Billings : 13,811.12
Total Remaining : 93,968.88

Outstanding Receivables	Invoice Number	Date	Amount	Balance Due
	2017088	1/31/2020	3,405.00	3,405.00
				3,405.00

100 - Project Management

Rate Labor

Class / Employee

Engineer I

Jason Obrycki-Smith

Date	Hours	Rate	Amount
1/30/2020	0.25	90.0000	22.50
1/31/2020	0.75	90.0000	67.50
2/6/2020	1.00	90.0000	90.00
	<u>2.00</u>		<u>180.00</u>

Total Engineer I

Project Aide II

Jack R Simmons

2/5/2020	0.50	90.0000	45.00
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Project Aide III

Melanie A Phillips

2/10/2020	0.50	125.0000	62.50
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Senior Professional

John Arvai

1/30/2020	0.50	260.0000	130.00
2/3/2020	0.50	260.0000	130.00
2/5/2020	0.25	260.0000	65.00
2/6/2020	0.25	260.0000	65.00
2/7/2020	0.25	260.0000	65.00
2/10/2020	0.50	260.0000	130.00
2/13/2020	1.00	260.0000	260.00
2/14/2020	0.50	260.0000	130.00
2/18/2020	0.50	260.0000	130.00
2/20/2020	0.25	260.0000	65.00
	<u>4.50</u>		<u>1,170.00</u>

Total Senior Professional

Total Rate Labor

1,457.50

Unit Rate Expenses

Account / Unit / Vendor

Employee Mileage - Regular Rate

Employee Mileage

John Arvai

Quantity	Rate	Amount
61.00	0.5700	34.77

Jason Obrycki-Smith

55.00	0.5700	31.35
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<u>116.00</u>		<u>66.12</u>
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Total Employee Mileage

Total Employee Mileage - Regular Rate

66.12

Total Unit Rate Expenses

66.12

1,523.62

Total Bill Task: 100 - Project Management

200 - Basis of Design

Rate Labor

Class / Employee

Engineer I

Jason Obrycki-Smith

Date	Hours	Rate	Amount
1/30/2020	1.00	90.0000	90.00
2/6/2020	0.50	90.0000	45.00
2/10/2020	3.00	90.0000	270.00
2/14/2020	3.00	90.0000	270.00
2/20/2020	1.00	90.0000	90.00
2/20/2020	2.00	90.0000	180.00
2/21/2020	1.00	90.0000	90.00
2/21/2020	2.00	90.0000	180.00

200 - Basis of Design

Rate Labor

Class / Employee	Date	Hours	Rate	Amount
Total Engineer I		13.50		1,215.00
Senior Professional				
Jeffrey W Reynhout				
	1/27/2020	3.00	260.0000	780.00
	1/29/2020	2.00	260.0000	520.00
	1/30/2020	2.00	260.0000	520.00
	2/4/2020	4.00	260.0000	1,040.00
	2/10/2020	2.00	260.0000	520.00
	2/12/2020	1.00	260.0000	260.00
	2/17/2020	3.00	260.0000	780.00
	2/18/2020	2.00	260.0000	520.00
	2/20/2020	2.00	260.0000	520.00
	2/21/2020	2.00	260.0000	520.00
Total Senior Professional		23.00		5,980.00
			Total Rate Labor	7,195.00
Total Bill Task: 200 - Basis of Design				7,195.00

300 - 60% Design

Rate Labor

Class / Employee	Date	Hours	Rate	Amount
Engineer III				
Thomas J Stark				
	2/10/2020	1.00	125.0000	125.00
	2/11/2020	5.00	125.0000	625.00
	2/14/2020	6.00	125.0000	750.00
Total Engineer III		12.00		1,500.00
Project Aide III				
John K Golden				
	1/31/2020	1.00	125.0000	125.00
	2/6/2020	0.50	125.0000	62.50
Total Project Aide III		1.50		187.50
			Total Rate Labor	1,687.50
Total Bill Task: 300 - 60% Design				1,687.50

Total Project: MCW200601T - Chapaton RTB Disinfection Improvements

10,406.12

Work Description: Chapaton RTB Disinfection Improvements

Project management and coordination of design activities, staff and team meetings. Prepared monthly invoice and progress report. Provided draft BOD for MCPWO review and comment. Updating BOD with MCPWO comments. Progressing design to 60%.



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	3/27/20
4. SET ID	5. POST DATE	
VP20032&MIA		

6. VENDOR NAME (Check to be issued to)		7. VENDOR NUMBER		8. ADDR CODE		9. Invoice No (MAX = 16 CHARACTERS)		10. Invoice Date		11. Invoice Amount	
Wade Trim		V09446		02		2017673		3/27/2020		\$ 22,643.75	

General Ledger				Job Ledger		OPTIONAL		CHILD RECORD DETAIL INFORMATION			
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK	
A	8210017M	80138	80138	WO19073	8 1/2 Mile Relief	Pjt #MCW200601T, thru 3/20/20	\$ 22,643.75	GEN			
B											
C											
D											
E											
F											
G											

23. Total: \$ 22,643.75 REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Chapaton RTB Disinfection Improvements

25. Finance Officer: **BH/MH** 30. Drain: 8 1/2 Mile Relief

26. Chief Deputy: 31. Project Balance: \$71,325.13

27. Engineers: 32. Staff Date: 4/7/2020

28. Managers: 33. Board Date: 4/13/2020

29. Coordinator: 34. Select For Pay Date:

**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	19073
PROJECT NUMBER	WWS-2019-017
PROJECT NAME	Chapaton RTB Disinfection Improvements
DRAINAGE DISTRICT	Eight and One-Half Mile
CONSULTANT NAME	Wade Trim Associates, Inc.
INVOICE DATE	3/27/2020
INVOICE START DATE	2/22/2020
INVOICE END DATE	3/20/2020

ORIGINAL CONTRACT AMOUNT	\$	107,780.00
CHANGE ORDER TOTAL	\$	-
Change Order No. 1		
Change Order No. 2		
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	107,780.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	13,811.12
TOTAL AMOUNT DUE THIS INVOICE	\$	22,643.75
TOTAL BUDGET REMAINING	\$	71,325.13
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		



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INVOICE

Terms: Net 30 Days
1.5% Per Month After 30 Days
18% Annual Rate

ACH payments accepted. Send inquiries to remit@wadetrtrim.com

Remit Payment To: Wade Trim, 25251 Northline Road, Taylor, MI 48180

Attention: Vince Astorino
Operations and Flow Manager
Macomb County Public Works
21777 Dunham Road
Clinton Township, MI 48036

Invoice : 2017673
Invoice Date : 3/27/2020
Project : MCW200601T
Project Name : Chapaton RTB Disinfection
Improvements

For Professional Services Rendered For 2/22/2020 Through 3/20/2020

	Fee	Available	Billings		
			To Date	Previous	Current
	107,780.00	93,968.88	36,454.87	13,811.12	22,643.75
Rate Labor		22,643.75			
				Current Billings	<u>22,643.75</u>
				Amount Due This Bill	<u>22,643.75</u>

Total Fee : 107,780.00
To Date Billings : 36,454.87
Total Remaining : 71,325.13

Outstanding Receivables	Invoice Number	Date	Amount	Balance Due
	2017376	2/28/2020	10,406.12	<u>10,406.12</u>
				10,406.12

100 - Project Management

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Professional				
John Arvai				
	2/27/2020	0.25	260.0000	65.00
	2/28/2020	0.25	260.0000	65.00
	3/2/2020	0.25	260.0000	65.00
	3/5/2020	0.25	260.0000	65.00
	3/10/2020	0.25	260.0000	65.00
	3/19/2020	0.25	260.0000	65.00
		-----		-----
Total Senior Professional		1.50		390.00
Total Rate Labor				390.00
Total Bill Task: 100 - Project Management				390.00

200 - Basis of Design

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer I				
Jason Obrycki-Smith				
	2/24/2020	1.00	90.0000	90.00
	2/27/2020	2.00	90.0000	180.00
	2/28/2020	2.50	90.0000	225.00
	3/2/2020	3.00	90.0000	270.00
		-----		-----
Total Engineer I		8.50		765.00
Professional Engineer IV				
David J Delia	2/28/2020	2.00	185.0000	370.00
Project Aide III				
Kurt Tolliver				
	3/9/2020	1.00	125.0000	125.00
	3/10/2020	4.00	125.0000	500.00
	3/11/2020	2.00	125.0000	250.00
		-----		-----
Total Project Aide III		7.00		875.00
Senior Professional				
Jeffrey W Reynhout				
	2/24/2020	2.00	260.0000	520.00
	2/26/2020	1.00	260.0000	260.00
	2/27/2020	3.00	260.0000	780.00
		-----		-----
Total Senior Professional		6.00		1,560.00
Total Rate Labor				3,570.00
Total Bill Task: 200 - Basis of Design				3,570.00

300 - 60% Design

Rate Labor

<i>Class / Employee</i>	<i>Date</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
CADD Technician I				
Rachelle Setser	3/18/2020	2.00	65.0000	130.00
Engineer I				
Jason Obrycki-Smith				
	3/6/2020	2.00	90.0000	180.00
	3/9/2020	1.50	90.0000	135.00

300 - 60% Design

Rate Labor

Class / Employee

	Date	Hours	Rate	Amount
Engineer I				
Jason Obrycki-Smith	3/10/2020	3.00	90.0000	270.00
	3/11/2020	3.00	90.0000	270.00
	3/12/2020	2.00	90.0000	180.00
	3/16/2020	6.00	90.0000	540.00
	3/17/2020	4.00	90.0000	360.00
	3/18/2020	3.00	90.0000	270.00
	3/19/2020	2.00	90.0000	180.00
	3/20/2020	4.00	90.0000	360.00
Total Engineer I		30.50		2,745.00
Engineer III				
Thomas J Stark	2/29/2020	8.00	125.0000	1,000.00
	3/9/2020	8.00	125.0000	1,000.00
	3/10/2020	8.00	125.0000	1,000.00
	3/11/2020	8.00	125.0000	1,000.00
	3/18/2020	3.00	125.0000	375.00
	3/19/2020	8.00	125.0000	1,000.00
	3/20/2020	8.00	125.0000	1,000.00
Total Engineer III		51.00		6,375.00
Project Aide III				
John K Golden	2/25/2020	1.50	125.0000	187.50
	2/27/2020	2.50	125.0000	312.50
	2/28/2020	2.50	125.0000	312.50
	3/2/2020	3.50	125.0000	437.50
	3/3/2020	4.50	125.0000	562.50
	3/4/2020	1.75	125.0000	218.75
	3/5/2020	3.50	125.0000	437.50
	3/6/2020	2.00	125.0000	250.00
	3/16/2020	2.00	125.0000	250.00
	3/17/2020	3.00	125.0000	375.00
Total Project Aide III		26.75		3,343.75
Project Specialist III / Manager				
Neil Wakeman	3/11/2020	4.00	170.0000	680.00
	3/12/2020	2.00	170.0000	340.00
Total Project Specialist III / Manager		6.00		1,020.00
Senior Professional				
John Arvai	3/19/2020	1.00	260.0000	260.00
	3/20/2020	1.00	260.0000	260.00
Jeffrey W Reynhout	3/2/2020	2.00	260.0000	520.00
	3/3/2020	2.00	260.0000	520.00
	3/4/2020	2.00	260.0000	520.00

300 - 60% Design

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Senior Professional

Jeffrey W Reynhout

3/5/2020	2.00	260.0000	520.00
3/16/2020	2.00	260.0000	520.00
3/17/2020	2.00	260.0000	520.00
3/18/2020	2.00	260.0000	520.00
3/19/2020	1.00	260.0000	260.00
3/20/2020	2.00	260.0000	520.00
	19.00		4,940.00

Total Senior Professional

Total Rate Labor

18,553.75

Total Bill Task: 300 - 60% Design

18,553.75

400 - Final Design

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

CADD Technician I

Rachelle Setser

3/10/2020	2.00	65.0000	130.00
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Total Rate Labor

130.00

Total Project: MCW200601T - Chapaton RTB Disinfection Improvements

22,643.75

Work Description: Chapaton RTB Disinfection Improvements

Project management and coordination of design activities, staff and team meetings. Prepared monthly invoice and progress report. Updated and submitted final BOD. Conference call workshop on March 20, 2020 to review and confirm BOD and design drawings with MCPWO. Progressing design to 60%.

Budget to Actual
8.5 Mile Relief
As of March 31, 2020 = 50%

DESCRIPTION	2020 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	80,000		101,454	(21,454)	126.8%
Canal Expansion(SMSD and Macomb County)	-		3,000,000	(3,000,000)	0.0%
Other Revenue	5,000		1,376	3,624	27.5%
State Grant	-		-	-	0.0%
LSCWWI 04B Transfer	-		738,112	(738,112)	100.0%
8.5 O&M/Charge Required Revenue	4,279,768		4,279,768	-	100.0%
PY Revenue-Fund Balance	3,098,050		58,090	3,039,960	1.9%
Rental Fee	16,464		8,232	8,232	50.0%
Total Revenue Accounts	7,479,282	-	8,187,032	(707,750)	109.5%
EXPENSE ACCOUNTS					
Application/Permit Fee	3,000		6,000	(3,000)	200.0%
Dues, Training, Conf, Subs.	5,750		86	5,664	1.5%
Engineering					
As needed Engineering	75,000		30,044	44,956	40.1%
Chapaton Improvements-Office Space	500,000		12,647	487,353	2.5%
Disinfection system upgrade (Design and Construction)	1,000,000		13,811	986,189	1.4%
Basin Structural Integrity Study**	-		14,097	(14,097)	0.0%
Phase 1 TRC Basin Equipment**	-		20,105	(20,105)	0.0%
Security Fence Structure-Gate Act**	-		25,150	(25,150)	0.0%
HVAC Design	200,000			200,000	0.0%
Flushing Study	75,000			75,000	0.0%
RTB/PS Ventilation Design	120,000			120,000	0.0%
Chapaton Improvements-Lab Relocation	250,000		70,444	179,556	28.2%
Basin Expansion Design	775,000		536,722	238,278	69.3%
In-System Storage Design(Gates on 8.5 Tunnel)	1,200,000		228,180	971,820	19.0%
9 Mile & 8 1/2 Mile Rehab	75,000		10,809	64,191	14.4%
New Equipment	23,500		11,561	11,939	49.2%
Office Supplies	1,000		362	638	36.2%
Operating Supplies	74,600		26,027	48,573	34.9%
Other Professional Svcs	46,800		28,619	18,181	61.2%
Personnel Services	979,953		224,658	755,295	22.9%
Repair & Maintenance	148,500		83,632	64,868	56.3%
Pumping and screening improvements	1,150,000		15,000	1,135,000	1.3%
SRF Replacement Reserve	259,215			259,215	0.0%
Scada System	243,839		62,138	181,701	25.5%
Utilities	273,125		168,920	104,205	61.8%
Total Expense Accounts	7,479,282	-	1,589,012	5,890,270	21.2%

	O&M Balance 9/30/2019	O&M	Total 3/31/2020
Cash - Operating	8,846,231	6,598,020	15,444,251
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		8,187,032	8,187,032
Expenditures		1,589,012	1,589,012
Equity*	8,846,231		15,444,251

Detail of 2019 Equity*

Disinfection system upgrade (Design and Construction)	100,000	Basin Expansion Design	450,000
RTB/PS Ventilation Design	120,000	Pumping and screening improvements	1,215,000
Chapaton Improvements-Office Space	228,000	PLC Replacements at Chapaton East	40,000
In-System Storage Design (Gates on 8.5 Tunnel)	425,000	SRF Replacement Reserve	1,814,505
9 Mile & 8 1/2 Mile Rehab	67,800	Expansion Reserve (From State)	3,000,000
Scada Reserve	109,025	Capital Reserve	936,901
Phase 1 TRC Basin Equipment**	100,000	Basin Structural Integrity Study**	60,000
As needed Engineering	40,000	Painting interior and garage façade	20,000
HVAC Design	60,000	Security Fence Structure-Gate Act**	60,000

** Project was projected to be completed during 18/19 budget cycle. However it was not, so funds designated in 18/19 for this project will be used in 19/20