

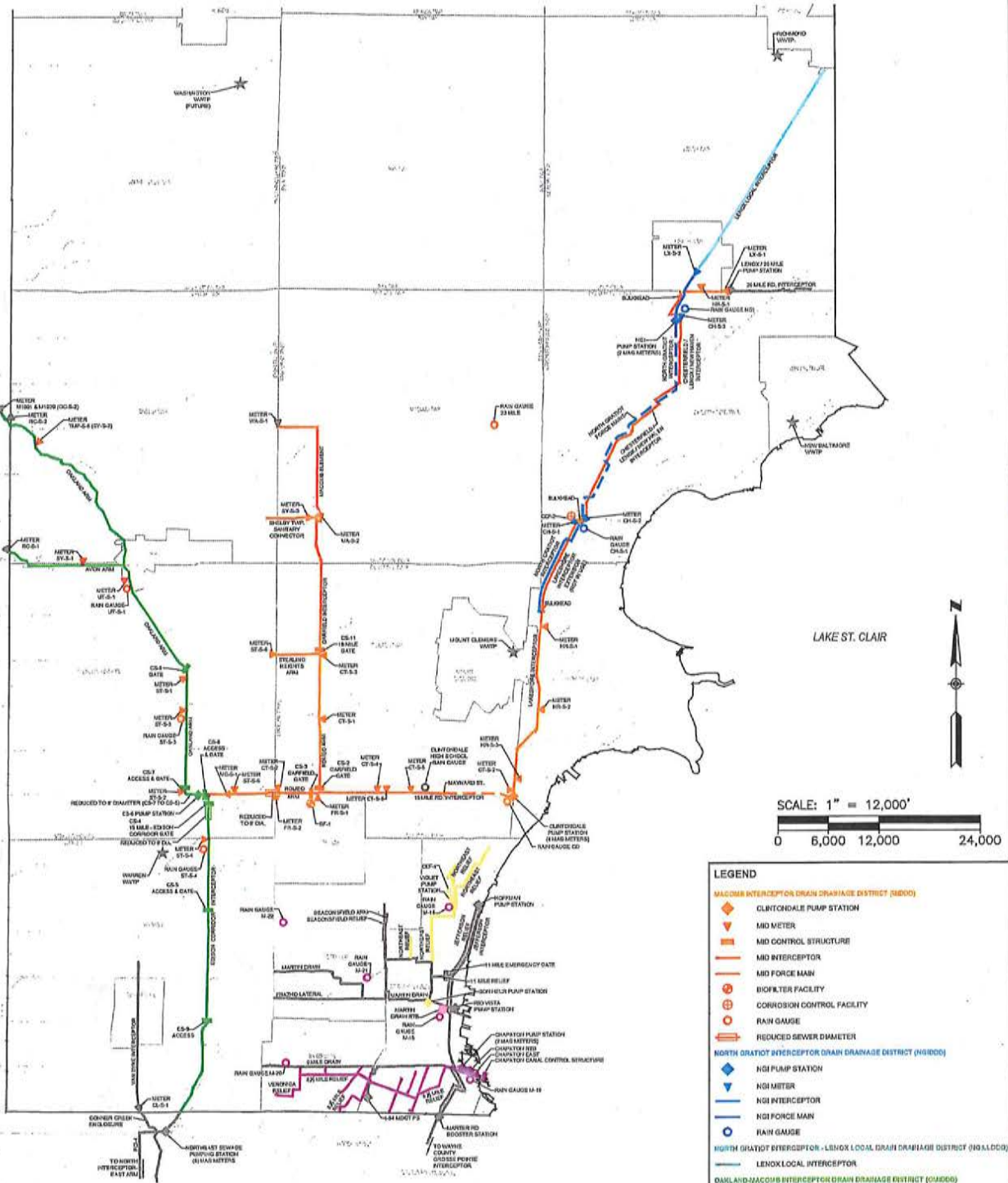
EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
OCTOBER 19, 2020
10:00 A.M.
AGENDA

NOTE: THIS MEETING WILL BE HELD BY TELECONFERENCE

Call in Number: 1-408-418-9388
Access Code: 173 553 9528

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for October 19, 2020	
3. Approval of Minutes for September 14, 2020	3
4. Public Participation	
5. Project Updates - Vince Astorino	
6. Consideration for approval of invoices (see attached)	6
7. Financial Report – Bruce Manning	80
8. Adjourn	

MACOMB COUNTY WASTEWATER SYSTEMS



- LEGEND**
- MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (0600)**
 - ◆ CLINTONDALE PUMP STATION
 - ▼ MID METER
 - ▾ MID CONTROL STRUCTURE
 - MID INTERCEPTOR
 - MID FORCE MAIN
 - ⊙ BIOFILTER FACILITY
 - ⊙ CORROSION CONTROL FACILITY
 - RAIN GAUGE
 - ▬ REDUCED SEWER DIMETER
 - NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (08000)**
 - ◆ NGI PUMP STATION
 - ▼ NGI METER
 - ▾ NGI INTERCEPTOR
 - NGI FORCE MAIN
 - RAIN GAUGE
 - NORTH GRATIOT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (06A000)**
 - LENOX LOCAL INTERCEPTOR
 - DAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (06000)**
 - ◆ CS-4 PUMP STATION
 - ▼ OMD METER
 - ▾ OMD CONTROL STRUCTURE
 - OMD INTERCEPTOR
 - ▬ REDUCED SEWER DIMETER
 - 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT**
 - ◆ CHAPATON WEST PUMP STATION
 - ▾ CHAPATON RETENTION TREATMENT BASIN
 - ▾ CHAPATON CANAL CONTROL GATE
 - 8 1/2 MILE INTERCEPTOR
 - RAIN GAUGE
 - SEMIWOS DRAIN DRAINAGE DISTRICT (06000)**
 - ◆ SEMIWORDS PUMP STATION
 - ▾ CORROSION CONTROL FACILITY
 - ▾ SEMIWORDS INTERCEPTOR
 - MARTIN SANITARY DRAIN DRAINAGE DISTRICT (05000)**
 - ◆ MARTIN DRAIN RETENTION TREATMENT BASIN
 - OTHER SYSTEMS**
 - ◆ PUMP STATION
 - ▼ METER
 - ★ WWTIP
 - 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 via telephone conference per the State of Michigan Executive Order due to the COVID-19 pandemic, on September 14, 2020, at 10:04 A.M.

PRESENT: Brian Baker, Acting Chair
Veronica Klinefelt, Member
Bryan Santo, Member

ALSO PRESENT: Harold Haugh, Joe Romano, Robert Mijac, Macomb County Board of Commissioners; Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Jeff Bednar P.E., Environmental Resources Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Karen Czernel, Deputy, Norb Franz, Communications Manager, Macomb County Public Works

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

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of August 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.

Mr. Astorino updated the board that next month there will be an update regarding the Wastewater Master Plan wrap up.

The pump and screen project is still progressing. The bar screens are complete, and the new pump will be online soon.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to receive and file the project update by Mr. Astorino.

Adopted: YEAS: 3
NAYS: 0

Mr. Downing updated the board that the OCIP premium estimates brought to the board last month came in at a 14% lower cost than estimated.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to receive and file the insurance update.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that the disinfection pump replacement project bids came back and we would like to award the project to the lowest bidder, Weiss Construction Co., LLC.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to award the bid for the Chapaton and Martin Retention Basin Disinfection Improvement Project to Weiss Construction Co., LLC in the amount of \$995,925 (Eight and One-Half Mile share \$806,425).

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated the board that we would like to award Wade Trim the construction contract administration to oversee the work completed by Weiss Construction Co., LLC for the disinfection pump replacement project.

A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the proposal from Wade Trim to perform construction contract administration for the Chapaton and Martin disinfection project at a not to exceed cost of \$99,890 (8½ Mile share \$74,917.50)

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$216,080.75 to the board for review and approval.

A motion was made by Ms. Klinefelt, supported by Mr. Santo 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 Ms. Klinefelt and supported by Mr. Santo.

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 10:21 a.m.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

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 September 14, 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.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

DATED: 9/14/20

EIGHT AND ONE HALF MILE RELIEF DRAIN - 9/22/20 - 10/6/20

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance
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 Astorino Astorino Astorino Astorino Astorino Astorino Astorino Downing Downing Downing Downing Astorino Astorino Astorino Astorino Astorino	BPH Pump & Equipment DTE Energy DTE Energy Fishbeck Hank's Auto Service JCI Jones Chemicals, Inc. JF Cavanaugh Meadowbrook Insurance Meadowbrook Insurance Meadowbrook Insurance Meadowbrook Insurance Premier Safety Rescue Training Services LLC Tetra Tech, Inc. Wade Trim Watson Marlow Inc. Wonderware North	\$ 3,460.92 \$ 30,442.50 \$ 9,329.88 \$ 1,431.00 \$ 652.91 \$ 4,031.98 \$ 218,189.06 \$ 25,074.06 \$ 37,990.88 \$ 10,878.35 \$ 22,000.00 \$ 699.30 \$ 1,980.00 \$ 81,802.79 \$ 4,141.08 \$ 70,544.30 \$ 6,865.87 \$ 529,514.88	Invoice #8163 - 9.17.20 Invoice #20-453 - 8.9.20 Invoice #20-462 - 9.8.20 Invoice #394845 - 9.14.20 Invoice #61755 - 9.29.20 Invoice #832911 - 9.15.20 Invoice #W018350 Est. 3 - 9.25.20 Invoice #5399 - 9.10.20 Invoice #5401 - 9.10.20 Invoice #5402 - 9.10.20 Invoice #5403 - 9.10.20 Invoice #4184231 - 9.9.20 Invoice #08112020 - 10.2.20 Invoice #51644958 - 9.30.20 Invoice #2019175 - 10.2.20 Invoice #S1140830 - 9.30.20 Invoice #86236 - 9.17.20	Chemical Pump Replacement Monthly Electric - 5.8.20 - 8.9.20 Monthly Electric - 8.1.20 - 9.8.20 As-Needed Services through 9.4.20 Repairs 2013 Ford F-150 - Trombley Hypochlorite Solution - 4,466 gallons Pump & Screen Improvements Owners Protective Professional Indemnity Builders Risk Pollution Liability Administrative Fee Safety Coverall and Boots 16 Hour Confined Space Refresher In-System Storage Design Chapaton RTB Disinfection Improvements - Disinfection Project Pump Wonderware Renewal	\$ 22,291.41 \$ 259,326.36 \$ 721,887.10 \$ 86,093.91
Total							



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	9/23/20
4. SET ID		5. POST DATE
VP200923MFA		

PARENT RECORD INFORMATION					
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
BPH Pump & Equipment	V65277	01	8163	9/17/2020	\$ 6,921.84

General Ledger		Job Ledger		OPTIONAL		CHILD RECORD DETAIL INFORMATION		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	97002	97002	WO18006	8 1/2 Mile Relief	PW000076; 0575543767	\$ 3,368.35	GEN		0
B	8210072M	97002			Martin	PW000076; 0575543767	\$ 3,368.35	GEN		0
C	8210017M	72901	72901	WO18006	8 1/2 Mile Relief	PW000076; 0575543767	\$ 92.57	GEN		0
D	8210072M	72901			Martin	PW000076; 0575543767	\$ 92.57	GEN		0
E										
F										
G										

23. Total: \$ 6,921.84

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BMW/mh	30. Drain:	8 1/2 Mile; Martin
26. Chief Deputy:		31. Project Balance:	\$0.00
27. Engineers:		32. Staff Date:	10/6/2020
28. Managers:		33. Board Date:	10/19/2020
29. Coordinator:		34. Select For Pay Date:	

BPH Pump & Equipment, Inc.

P.O. BOX 755
 MCHENRY, IL 60051-0755
 815-578-0100
 WWW.BPHPUMPS.COM

Invoice

Date	Invoice #
9/17/2020	8163

Bill To
MaComb County Public Works Finance Department 21777 Dunham Road Clinton Township, MI. 48036 ATTN: Accounts Payable

Ship To
MaComb County Public Works 23001 East Nine Mile Rd St. Clair Shores, MI 48080 Chapaton Pump Station

Tracking	P.O. No.	Terms	Due Date	FOB	Rep	Ship Via
00575543767	PW000076	1% 10 Net 30	10/17/2020	YES	HSE	Dayton

Item	Description	Ordered	Invoiced	Rate	Amount
IW-SMX-F441RFVYU	Teflon self priming centrifugal pump supplied with 1.50" x 1.50" flange connections and a teflon bearing.	1	1	3,368.35	3368.35
IW-SMX-F441RFVYU	Teflon self priming centrifugal pump supplied with 1.50" x 1.50" flange connections and a teflon bearing.	1	1	3,368.35	3368.35
Freight	Freight, Insurance, and Handling Fee		1	185.14	185.14

Thank you for your business.	Subtotal	\$6,921.84
	Sales Tax (0.0%)	\$0.00
	Total	\$6,921.84
	Balance Due	\$6,921.84

Phone #
815-578-0100



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95337	9/14/20
4. SET ID		5. POST DATE
V200914MUA		

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
DTE Energy		V01270	08	20-453	8/9/2020	\$ 30,442.50

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	92101	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 5/8-6/8	\$ 10,247.71	GEN				
B	8210017M	92101	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 6/9-7/8	\$ 8,690.07	GEN		0		
C	8210017M	92101	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 7/9-8/9	\$ 11,504.72	GEN		0		
D												
E												
F												
G												

23. Total: \$ 30,442.50

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: BH/mh

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: _____

30. Drain: 8 1/2 Mile Relief

31. Project Balance: N/A

32. Staff Date: 9/22/2020

33. Board Date: 10/19/2020

34. Select For Pay Date: _____

910000053785

00003044250 B

DTE

Payment Coupon

Account Number	91000053785
Due Date:	October 01, 2020
Total Due:	\$30,442.50

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

20.453

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

The Low Income Energy Assistance Fund (LIEAF) Factor is being reduced to \$0.91 per meter, effective with this bill. The Michigan Public Service Commission approves the LIEAF Factor annually. The money is collected from utilities across Michigan and is spent as provided in the Michigan Energy Assistance Act (2012 Public Act 615). In accordance with Public Act 95 of 2013, for residential customers the LIEAF Factor only applies to one meter per residence.

DTE

Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 05/18/2020	6,534.74
Payment(s) and Credit(s)	- 6,534.74
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	05/08 - 06/08/20	10,247.71
	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	06/09 - 07/08/20	8,690.07
	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	07/09 - 08/09/20	11,504.72
Taxes					0.00
Miscellaneous Charges					0.00
Current Bill					\$30,442.50

Amount Due on or before Due Date of 10/01/2020 **\$30,442.50**

Your current charges are due on October 1, 2020. A 2% late payment charge will be applied if paid after the due date.



Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 210001489822

Billing Period: 05/08/2020 through 06/08/2020

Days Billed: 32

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6321448	05/08	410.6A	05/20	414.5A	3.9	6,400.0000	24,960.0	P - In-V
6321448	05/08	525.5A	05/20	532.5A	7.0	6,400.0000	44,800.0	P - In-W
6321449	05/08	1.5A	06/08	1.6A	0.1	- 6400.000	640.0	P - Out-V
6321449	05/08	0.0A	06/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
6321451	05/08	0.5A	05/20	0.5A	0.0	6,400.0000	0.0	P - In-V
6321451	05/08	0.5A	05/20	0.5A	0.0	6,400.0000	0.0	P - In-W
10056082	05/21	0.0A	06/08	2.7A	2.7	6,400.0000	17,280.0	P - In-V
10056082	05/21	0.0A	06/08	3.1A	3.1	6,400.0000	19,840.0	P - In-W
10056085	05/21	0.0A	06/08	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	05/21	0.0A	06/08	0.0A	0.0	6,400.0000	0.0	P - In-W
Total KVARH							42,880.00	
Total KWH							64,640.00	

Invoice: 210001489822 Service Name: Chapaton Pumping Station
 Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering Cat1

Billing Status Information

1	On-peak Billing Demand	957	KW	ESTABLISHED	05/19/2020	12:30
3	65% High OP Bill Dmd June-Oct prec 11 mths	1105	KW	ESTABLISHED	05/19/2020	12:30
8	Highest Single Billing Demand	1946	KW	ESTABLISHED	05/19/2020	00:30
A	Current PV High Monthly Demand	1946	KW	ESTABLISHED	05/19/2020	00:30
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	4838	KW	ESTABLISHED	01/11/2020	11:30
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	84	PCT			
	Total Number of days in the Billing Period	32	DAYS			
	Avg Kilowatthours Used Per Day This Period	2020	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1088	KWH			
	kWh percentage change from a year ago	86	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	64640	KWH			
	Net Inflow (In - Out)	64640	KWH			

Charges for 05/08/2020 through 06/08/2020

Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge (05/08/2020-05/14/2020)	12,800	KWH	@ \$	0.0329700	Per Total KWH	422.0
Power Supply Capacity Charge (05/15/2020-06/08/2020)	51,840	KWH	@ \$	0.0390000	Per Total KWH	2,021.7
Power Supply Non Capacity Charge (05/08/2020-05/14/2020)	12,800	KWH	@ \$	0.0464000	Per Total KWH	593.9
Power Supply Non Capacity Charge (05/15/2020-06/08/2020)	51,840	KWH	@ \$	0.0434500	Per Total KWH	2,252.4
Surcharges:						
Power Supply Cost Recovery Factor	64,640	KWH	@ \$	-0.0031100	Per Total KWH	- 201.0
Sub Total:						5,089.1

Delivery Charges:

Service Charge						11.2
Distribution:						
Distribution Energy (05/08/2020-05/14/2020)	12,800	KWH	@ \$	0.0386600	Per Total KWH	494.8
Distribution Energy (05/15/2020-06/08/2020)	51,840	KWH	@ \$	0.0386800	Per Total KWH	2,005.1
Surcharges:						
Nuclear Surcharge (05/08/2020-05/14/2020)	12,800	KWH	@ \$	0.0008270	Per Total KWH	10.5
Nuclear Surcharge (05/15/2020-06/08/2020)	51,840	KWH	@ \$	0.0008420	Per Total KWH	43.6
Energy Waste Reduction	2	MTR	@ \$	45.6200000		91.2
LIEAF Factor	2	MTR	@ \$	0.9200000		1.8
Sub Total:						2,658.5

Detail Charges

Special Facilities Charge	2,500.00
Invoice Subtotal	10,247.71
Michigan State Sales Tax On Taxable Portion	0.00
Invoice Total	\$10,247.71

Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 210001489822

Billing Period: 06/09/2020 through 07/08/2020

Days Billed: 30

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6321449	06/09	1.6A	07/08	1.6A	0.0	- 6400.000	0.0	P - Out-V
6321449	06/09	0.0A	07/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
10056082	06/09	2.7A	07/08	7.9A	5.2	6,400.0000	33,280.0	P - In-V
10056082	06/09	3.1A	07/08	11.1A	8.0	6,400.0000	51,200.0	P - In-W
10056085	06/09	0.0A	07/08	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	06/09	0.0A	07/08	0.0A	0.0	6,400.0000	0.0	P - In-W
Total KVARH							33,280.00	
Total KWH							51,200.00	

Invoice: 210001489822 Service Name: Chapaton Pumping Station

Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering Cat1

Billing Status Information

1	On-peak Billing Demand	1096	KW	ESTABLISHED	06/23/2020	11:30
3	65% High OP Bill Dmd June-Oct prec 11 mths	622	KW	ESTABLISHED	06/23/2020	11:30
8	Highest Single Billing Demand	2309	KW	ESTABLISHED	06/27/2020	01:30
A	Current PV High Monthly Demand	2309	KW	ESTABLISHED	06/27/2020	01:30
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	4838	KW	ESTABLISHED	01/11/2020	11:30
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	83	PCT			
	Total Number of days in the Billing Period	30	DAYS			
	kWh percentage change from a year ago	57	PCT			
	Avg Kilowatthours Used Per Day A Year Ago	1088	KWH			
	Avg Kilowatthours Used Per Day This Period	1707	KWH			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	51200	KWH			
	Net Inflow (In - Out)	51200	KWH			

Charges for 06/09/2020 through 07/08/2020

Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge	51,200	KWH	@ \$	0.0390000	Per Total KWH	1,996.80
Power Supply Non Capacity Charge	51,200	KWH	@ \$	0.0434500	Per Total KWH	2,224.64
Surcharges:						
Power Supply Cost Recovery Factor	51,200	KWH	@ \$	-0.0031100	Per Total KWH	- 159.22
Sub Total:						4,062.22

Delivery Charges:

Service Charge						11.20
Distribution:						
Distribution Energy	51,200	KWH	@ \$	0.0386800	Per Total KWH	1,980.40
Surcharges:						
Nuclear Surcharge	51,200	KWH	@ \$	0.0008420	Per Total KWH	43.10
Energy Waste Reduction	2	MTR	@ \$	45.6200000		91.20
LIEAF Factor	2	MTR	@ \$	0.9200000		1.80
Sub Total:						2,127.80
Special Facilities Charge						2,500.00

Invoice Subtotal

Michigan State Sales Tax On Taxable Portion

8,690.07

0.00

Invoice Total

\$8,690.07

Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 210001489822

Billing Period: 07/09/2020 through 08/09/2020

Days Billed: 32

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6321449	07/09	1.6A	08/09	1.6A	0.0	- 6400.000	0.0	P - Out-V
6321449	07/09	0.0A	08/09	0.0A	0.0	- 6400.000	0.0	P - Out-W
10056082	07/09	7.9A	08/09	15.0A	7.1	6,400.0000	45,440.0	P - In-V
10056082	07/09	11.1A	08/09	22.8A	11.7	6,400.0000	74,880.0	P - In-W
10056085	07/09	0.0A	08/09	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	07/09	0.0A	08/09	0.0A	0.0	6,400.0000	0.0	P - In-W
Total KVARH							45,440.00	
Total KWH							74,880.00	

Invoice: 210001489822 Service Name: Chapaton Pumping Station

Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering Cat1

Billing Status Information

1	On-peak Billing Demand	246	KW	ESTABLISHED	07/13/2020	18:30
3	65% High OP Bill Dmd June-Oct prec 11 mths	712	KW	ESTABLISHED	07/13/2020	18:30
8	Highest Single Billing Demand	6380	KW	ESTABLISHED	07/11/2020	00:00
A	Current PV High Monthly Demand	6380	KW	ESTABLISHED	07/11/2020	00:00
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	6380	KW	ESTABLISHED	07/11/2020	00:00
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	85	PCT			
	Total Number of days in the Billing Period	32	DAYS			
	Avg Kilowatthours Used Per Day This Period	2340	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1088	KWH			
	kWh percentage change from a year ago	115	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	74880	KWH			
	Net Inflow (In - Out)	74880	KWH			

Charges for 07/09/2020 through 08/09/2020

Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge	74,880	KWH	@ \$	0.0390000	Per Total KWH	2,920.32
Power Supply Non Capacity Charge	74,880	KWH	@ \$	0.0434500	Per Total KWH	3,253.54
Surcharges:						
Power Supply Cost Recovery Factor	74,880	KWH	@ \$	-0.0031100	Per Total KWH	- 232.88
Sub Total:						5,940.98

Delivery Charges:

Service Charge						11.25
Distribution:						
Distribution Energy	74,880	KWH	@ \$	0.0386800	Per Total KWH	2,896.36
Surcharges:						
Nuclear Surcharge	74,880	KWH	@ \$	0.0008420	Per Total KWH	63.05
Energy Waste Reduction	2	MTR	@ \$	45.6200000		91.24
LIEAF Factor	2	MTR	@ \$	0.9200000		1.84
Sub Total:						3,063.74
Special Facilities Charge						2,500.00

Invoice Subtotal

Michigan State Sales Tax On Taxable Portion

Invoice Total

Location Total

11,504.72

0.00

\$11,504.72

\$30,442.50

DTE



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95337	9/21/20
4. SET ID	5. POST DATE	
VP 200921MUNA		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be Issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)
DTE Energy	V01270	08	20-462
			10. Invoice Date
			9/8/2020
			11. Invoice Amount
			9,329.88

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger		Job Ledger		18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK	
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object						16. Work Order Number
A	8210017M	92101	CC0004	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 8/10-9/8	9,329.88	GEN	
B										
C										
D										
E										
F										
G										

23. Total: \$ 9,329.88

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

Bu(hk)

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

26. Chief Deputy: _____ N/A

27. Engineers: _____ 32. Staff Date: 10/6/2020

28. Managers: _____ 33. Board Date: 10/19/2020

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

910000053785

00003977238 B

DTE

Payment Coupon

Account Number	910000053785
Due Date:	October 07, 2020
Total Due:	\$39,772.38

\$ 9329.88

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

20.462

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

The Low Income Energy Assistance Fund (LIEAF) Factor is being reduced to \$0.91 per meter, effective with this bill. The Michigan Public Service Commission approves the LIEAF Factor annually. The money is collected from utilities across Michigan and is spent as provided in the Michigan Energy Assistance Act (2012 Public Act 615). In accordance with Public Act 95 of 2013, for residential customers the LIEAF Factor only applies to one meter per residence.

DTE

Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 09/09/2020	30,442.50
Payment(s) and Credit(s)	0.00
Remaining Balance	30,442.50

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	08/10 - 09/08/20	9,329.88
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$9,329.88

Amount Due on or before Due Date of 10/07/2020 **\$39,772.38**

Your current charges are due on October 7, 2020. A 2% late payment charge will be applied if paid after the due date.

Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 210001495951

Billing Period: 08/10/2020 through 09/08/2020

Days Billed: 30

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6321449	08/10	1.6A	09/08	1.7A	0.1	- 6400.000	640.0	P - Out-V
6321449	08/10	0.0A	09/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
10056082	08/10	15.0A	09/08	20.6A	5.6	6,400.0000	35,840.0	P - In-V
10056082	08/10	22.8A	09/08	31.3A	8.5	6,400.0000	54,400.0	P - In-W
10056085	08/10	0.0A	09/08	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	08/10	0.0A	09/08	0.0A	0.0	6,400.0000	0.0	P - In-W
Total KVARH							36,480.00	
Total KWH							54,400.00	

Invoice: 210001495951 Service Name: Chapaton Pumping Station
 Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering Cat1

Billing Status Information

1	On-peak Billing Demand	1490	KW	ESTABLISHED	09/08/2020	11:30
3	65% High OP Bill Dmd June-Oct prec 11 mths	712	KW	ESTABLISHED	09/08/2020	11:30
8	Highest Single Billing Demand	3241	KW	ESTABLISHED	08/28/2020	08:00
A	Current PV High Monthly Demand	3241	KW	ESTABLISHED	08/28/2020	08:00
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	6380	KW	ESTABLISHED	07/11/2020	00:00
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	83	PCT			
	Total Number of days in the Billing Period	30	DAYS			
	Avg Kilowatthours Used Per Day This Period	1813	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1140	KWH			
	kWh percentage change from a year ago	59	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	54400	KWH			
	Net Inflow (In - Out)	54400	KWH			

Charges for 08/10/2020 through 09/08/2020

Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge	54,400	KWH	@ \$	0.0390000	Per Total KWH	2,121.60
Power Supply Non Capacity Charge	54,400	KWH	@ \$	0.0434500	Per Total KWH	2,363.68
Surcharges:						
Power Supply Cost Recovery Factor	54,400	KWH	@ \$	0.0016600	Per Total KWH	90.30
Sub Total:						4,575.58

Delivery Charges:

Service Charge						11.25
Distribution:						
Distribution Energy	54,400	KWH	@ \$	0.0386800	Per Total KWH	2,104.19
Surcharges:						
Nuclear Surcharge	54,400	KWH	@ \$	0.0008420	Per Total KWH	45.80
Energy Waste Reduction	2	MTR	@ \$	45.6200000		91.24
LIEAF Factor	2	MTR	@ \$	0.9100000		1.82
Sub Total:						2,254.30
Special Facilities Charge						2,500.00

Invoice Subtotal

Michigan State Sales Tax On Taxable Portion

9,329.88

0.00

Invoice Total

\$9,329.88



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 9/23/20
4. SET ID VP200923MA		
5. POST DATE		

6. VENDOR NAME (Check to be issued to) Fishbeck	7. VENDOR NUMBER V44063	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 394845	10. Invoice Date 9/14/2020	11. Invoice Amount 1,431.00
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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	WO19005	8 1/2 Mile Relief	Pjt #190051 through 9/14/20	\$ 1,431.00	GEN	
B									
C									
D									
E									
F									
G									

REV 09/2018

23. Total: \$ 1,431.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

As Needed Services

25. Finance Officer: _____
 26. Chief Deputy: _____
 27. Engineers: _____
 28. Managers: _____
 29. Coordinator: _____

30. Drain: **8 1/2 Mile Relief**
 31. Project Balance: **\$22,291.41**
 32. Staff Date: **10/6/2020**
 33. Board Date: **10/19/2020**
 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 : 394845
 Invoice Date : 9/14/2020
 Project : 190051
 Project Name : Macomb Co PW/8.5 As-needed
 Engineering
 Bill Term : 1

For Professional Services Rendered Through 9/4/2020

WO19005

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1 - Genral As Needed	87,810.49	87,810.49	0.00	0.00	0.00
1.A - Task 1a - Chapaton Structural Study	46,910.34	0.00	46,910.34	46,910.34	0.00
1.B - Task 1b - 9 Mile Pipe Repair (WO19105)	20,816.15	0.00	20,816.15	20,816.15	0.00
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	5,678.59	1,821.41	1,821.41	0.00
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	8,990.72	469.13	8,521.59	8,521.59	0.00
1.j - Task 1j - Chapaton Flow Meter Drawings	2,680.00	0.00	2,680.00	2,680.00	0.00
1.k - Task 1k - Chapaton High Water Protection	4,783.80	0.00	4,783.80	4,783.80	0.00
1.l - Task 1l - Chapaton 3D Animation	3,557.00	0.00	3,557.00	3,557.00	0.00
1.M - Task 1m - Chapaton Ground Penetrating Radar	4,600.00	11.00	4,589.00	4,589.00	0.00
1.N - Task 1n - Chapaton Div 01 Specs	3,500.00	1,503.00	3,428.00	1,997.00	1,431.00
Rate Labor		1,431.00			
			Current Billings		<u>1,431.00</u>
			Amount Due This Bill		<u>1,431.00</u>

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

Invoice: 394845

1.N - Task 1n - Chapaton Div 01 Specs

Rate Labor

Class

Hours

Rate

Amount

9.00

159.0000

1,431.00

Senior Architect

Total Rate Labor

1,431.00

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

1,431.00

**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 9/14/2020

INVOICE START DATE 7/11/2020

INVOICE END DATE 9/4/2020

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 (includes all approved change orders only)	\$ 226,919.00
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 126,196.59
TOTAL AMOUNT DUE THIS INVOICE	\$ 1,431.00
TOTAL BUDGET REMAINING (Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	\$ 99,291.41



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 9/30/20
4. SET ID VP201002MA		
5. POST DATE		

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be issued to) Hank's Auto Service	7. VENDOR NUMBER V02040
8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 61755
10. Invoice Date 9/29/2020	11. Invoice Amount \$ 870.54

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
					OPTIONAL					
A	8210017M	93003	93003	WO18006	8 1/2 Mile Relief		Repairs to 064 x 368	\$ 652.91	GEN	
B	8210072M	93003			Martin		Repairs to 064 x 368	\$ 130.58	GEN	0
C	8713018M	93003			SEMCWWDS		Repairs to 064 x 368	\$ 87.05	GEN	0
D										
E										
F										
G										

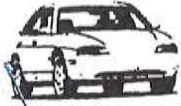
23. Total: \$ **870.54**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/mh	30. Drain: Multiple
26. Chief Deputy:		31. Project Balance: N/A
27. Engineers:		32. Staff Date: 10/6/2020
28. Managers:		33. Board Date: N/A
29. Coordinator:		34. Select For Pay Date:

13-420

Chap. Pete T.



STATE REG. F147002

HANK'S AUTO SERVICE

AIR CONDITIONING - ELECTRICAL - FUEL INJECTION
LIGHT & HEAVY REPAIR



(586) 783-2274 (586) 783-2380

44020 Groesbeck Hwy. • Clinton Twp., MI 48036

INVOICE

61755

Org. Est. # 098020

Date: 09/29/2020

INVOICE

MaComb County Public Works - Maddison

2013 Ford - F-150 XL - 5L, V8 (302C1) VIN(F)

Lic #: 064X368

Odometer In : 0

Cellular 586-804-8475 -- 586-783-0964 Maddi

VIN #: 1FTFX1E1E7 DFD39513

Part Description / Number	Qty	Sale	Ext	Labor Description	Hours	Ext
T-CONNECTOR - V8,5.0L Eng DR3Z 8566 B	1.00	54.51	54.51	CHECK WHINING NOISE-NEEDS WATER PUMP AND TENSIONER	0.50	42.50
RADIATOR HOSE - V8,5.0L Eng Upper CL3Z 8260 A	1.00	58.05	58.05	Check Trans Leak-COOLANT LEAK-NEEDS RAD HOSE AND T-CONNECTOR Symptom: Leaking Trans Fluid	0.50	nc
ANTI-FREEZE COOLANT 3656556	2.00	14.40	28.80	RADIATOR HOSE and T-CONNECTOR - Remove & Replace - 5.0L Eng Upper	2.00	170.00
SERPENTINE BELT TENSIONER - V8,5.0L Eng BR3Z 6B209 H	1.00	121.00	121.00	ALT DRIVE BELT TENSIONER - Remove & Replace - 5.0L Eng	0.77	65.45
WATER PUMP - V8,5.0L Eng BR3Z 8501 H	1.00	112.73	112.73	WATER PUMP - Remove & Replace - 5.0L Eng	2.50	212.50
Shop Supplies			3.00	Hazardous Materials		2.00

Org. Estimate 587.81 Revisions 429.52 Current Estimate 1,017.33

Revision # 1. Previous Estimate Amount: 587.81, Additional Cost: 429.52, Revised Estimate: 1017.33, Parts: \$339.52 Labor: \$85.00 Sublet: \$0.00 Taxes & Fees: \$5.00 Authorized by - Maddison, Date - 9/24/2020, Time - 1:25 PM, Initiated by - Shop, Phone Number - Fax: 586-469-7593

ALL VEHICLES WILL BE ASSESSED A \$10.00 PER DAY STORAGE CHARGE 48 HRS. AFTER COMPLETION OF WORK. NOT RESPONSIBLE FOR LOSS OR DAMAGE TO CARS, OR ARTICLES LEFT IN CARS, IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND OUR CONTROL. WARRANTY: PARTS AND LABOR ARE GUARANTEED FOR 12 MONTHS OR 12,000 MILES, WHICHEVER, COMES FIRST, UNLESS OTHERWISE NOTED. CUSTOMER IS RESPONSIBLE FOR RETURNING VEHICLE TO OUR FACILITY WE ARE NOT RESPONSIBLE FOR ANY TOWING OR ROAD SERVICE CHARGES. COMMERCIAL VEHICLES EXEMPT.

ALL REPAIRS AND PARTS USED WERE FURNISHED IN COMPLIANCE WITH MICHIGAN AUTO REPAIR ACT (PA 300) AS REQUIRED BY LAW, AN ESTIMATE FOR PARTS, LABOR AND TIME CAN BE WRITTEN ON THIS FORM YOU ARE ENTITLED TO A COPY OF THIS ORDER AT THE TIME YOU SIGN. I, the registered owner, authorize you to perform the above repairs and furnish necessary materials. I understand any cost quoted heretofore is an estimate only Your employees may operate vehicle for inspection, testing, delivery at my risk. You will not be responsible for any loss or damage to vehicle or articles left in it. An express Mechanic's Lien is acknowledged on above vehicle to secure the amount of repairs thereto, including those from any prior work or repair contact on this vehicle. In the event an attorney is retained to foreclose this lien or bring suit for collection of any sums I agree to pay costs of collection and any reasonable attorney fees. Receipt of a copy of this order is hereby acknowledged.

Vehicle Received: 9/29/2020

Signature Date 9-28-20

Labor:	490.45
Parts:	378.09
HazMat:	2.00
SubTotal:	870.54
Tax:	0.00
Total:	870.54
Bal Due:	\$870.54

Customer Number : 8946

YOU ARE ENTITLED BY LAW TO THE RETURN OF ALL PARTS REPLACED EXCEPT THOSE WHICH ARE TOO HEAVY OR LARGE AND THOSE REQUIRED TO BE SENT BACK TO THE MANUFACTURER OR DISTRIBUTOR BECAUSE OF WARRANTY WORK OR AN EXCHANGE AGREEMENT. YOU ARE ENTITLED TO INSPECT THE PARTS WHICH CANNOT BE RETURNED TO YOU. RETURNED PARTS DISCARD PARTS INITIALS



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	9/16/20
4. SET ID		5. POST DATE
VP200916MJA		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)
JCI JONES CHEMICALS INC	V65297	01	832911
			10. Invoice Date
			9/15/2020
			11. Invoice Amount
			4,031.98

CHILD RECORD DETAIL INFORMATION				19. Amount	20. DIV	21. MISC	22 Sep CK	
Line	General Ledger		16. Work Order Number	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22 Sep CK
	12. Org Key	13. Object						
A	8210017M	72650	WO18006	Order #617256, 9/15/20	\$ 4,031.98	GEN		
B								
C								
D								
E								
F								
G								

23. Total: \$ 4,031.98

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: BM/mh

26. Chief Deputy: N/A

27. Engineers: 8 1/2 Mile Relief

28. Managers: 9/22/2020

29. Coordinator: 10/19/2020

30. Drain: 8 1/2 Mile Relief

31. Project Balance: N/A

32. Staff Date: 9/22/2020

33. Board Date: 10/19/2020

34. Select For Pay Date: _____



www.jcichemicals.com

INVOICE

Inv Date	Invoice #
09/15/2020	832911
Date Shipped	Order/BOL #
09/15/2020	617256

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

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
VERBAL-CHRIS BENDA		Destination	Delivered		NORTH
Release #	Ship Via	Terms	Due Date	Discount Due Date	
	Harold Marcu	N 30	10/15/2020	10/15/2020	
Units	Package	Product Name	Total Quantity	Unit Price	Amount
4,466.00	1 Gal Bulk	HYPOCHLORITE SOLUTION, SS150 1201-001 BULK (\$85 Stop Fee) (+ fsc)	4,466.0000/Gal	0.9000 /Gal	4,019.40
General Remarks:		<> EMAIL INVOICE TO: michelle.houvener@macombgov.org <> OUTSIDE CARRIER: HAROLD MARCUS NET WEIGHT: 45 100 FSC			
		Fuel Surcharge			12.58

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Total: **4,031.98**

PLEASE PAY
THIS AMOUNT



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



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 9/30/20
4. SET ID VP201002MA	5. POST DATE	

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 3	10. Invoice Date 9/25/2020	11. Invoice Amount \$ 218,189.06
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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	80126	80126	WO18350	8 1/2 Mile Relief	Pump & Screen Imprvmts - 7/16-9/23	\$ 212,009.00	GEN	
B	8210017M	21100	21100	WO18350	8 1/2 Mile Relief	Pump & Screen Imprvmts - 7/16-9/23	\$ 6,180.06	GEN	0
C									
D									
E									
F									
G									

23. Total: \$ **218,189.06**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

Total retainage to date \$53,313.60

25. Finance Officer: _____ BM/mh

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: _____

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

31. Project Balance: **\$259,326.36**

32. Staff Date: **10/6/2020**

33. Board Date: **10/19/2020**

34. Select For Pay Date: _____

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>3</u>	Application Date:	<u>9/23/2020</u>
Application Period:	<u>From 7/16/2020</u>	to	<u>9/4/2020</u>

1. Original Contract Price	\$ 1,162,472.00
2. Net change by Change Orders	\$ (96,200.00)
3. Current Contract Price (Line 1 + Line 2)	\$ 1,066,272.00
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 806,945.64
5. Retainage	
a. <u>7%</u> X \$ <u>806,945.64</u> Work Completed	\$ 53,313.60
b. <u>0%</u> X \$ <u>135,998.64</u> Stored Materials	\$ -
c. Total Retainage (Line 5.a + Line 5.b)	\$ 53,313.60
6. Amount eligible to date (Line 4 - Line 5.c)	\$ 753,632.04
7. Less previous payments (Line 6 from prior application)	\$ 535,442.98
8. Amount due this application	\$ 218,189.06
9. Balance to finish, including retainage (Line 3 - Line 4)	\$ 259,326.36

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: Brian Pass **Date:** 9/23/2020

Recommended by Engineer

By: Aaron Uranga

Title: Associate

Date: 7/16/2020

Approved by Owner By: *[Signature]*

Title: Construction Engineer

Date: 9-25-2020

Approved by Funding Agency

By: _____

Title: _____

Date: _____

By: _____

Title: Construction & Maintenance Manager

Date: 9-25-2020

Stephen Downing

Progress Estimate - Unit Price Work

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

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

Contractor's Application for Payment

Application No.: 3 Application Period: From 07/16/20 to 09/04/20 Application Date: 09/23/20

A Bid Item No.	B Description	C Contract Information			F Value of Bid Item (CX E) (\$)	G Estimated Quantity Incorporated in the Work	H Value of Work Completed (EX G)	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) (\$)
		D Item Quantity	E Unit Price (\$)	D Units							
1	Boards, Insurance and Mobilization (10% Max)	1	LS	\$ 60,500.00	Original Contract	60,500.00	-	60,500.00	100%	-	
2	Pre-Construction Aerial Visual	1	LS	\$ 2,500.00		2,500.00	-	2,500.00	100%	-	
3	Flow Diversion During Construction Complete - South Side	1	LS	\$ 10,650.00		10,650.00	-	10,650.00	100%	-	
4	Flow Diversion During Construction Complete - North Side	1	LS	\$ 10,650.00		10,650.00	-	10,650.00	100%	-	
5	New Stop Logs, Guides and Related Structural Improvements -	1	LS	\$ 49,950.00		49,950.00	-	49,950.00	100%	-	
6	New Stop Logs, Guides and Related Structural Improvements -	1	LS	\$ 86,250.00		86,250.00	-	86,250.00	100%	-	
7	Remove Existing Bar Rack and Install New - South Side	1	LS	\$ 158,620.00		158,620.00	-	158,620.00	100%	-	
8	Remove Existing Bar Rack and Install New - North Side	1	LS	\$ 158,620.00		158,620.00	-	158,620.00	100%	-	
9	Access Hatch Revisions in Screen Room	1	LS	\$ 89,433.00		89,433.00	-	89,433.00	100%	-	
10	Guardrail Revision in Screen Room	1	LS	\$ 16,638.00		16,638.00	-	16,638.00	100%	-	
11	I&C Upgrades in Screen Room	1	LS	\$ 12,618.00		12,618.00	-	12,618.00	100%	-	
12	Core Through Wet Well Wall	1	LS	\$ 3,960.00		3,960.00	-	3,960.00	100%	-	
13	Concrete Collar in Wet Well	1	LS	\$ 13,712.00		13,712.00	-	13,712.00	100%	-	
14	Through Wall Pipe Penetration	1	LS	\$ 6,203.00		6,203.00	-	6,203.00	100%	-	
15	North Dry Well Demolition Work	1	LS	\$ 24,863.00		24,863.00	-	24,863.00	100%	-	
16	Install new Owner Furnished Pump	1	LS	\$ 9,843.00		9,843.00	-	9,843.00	100%	-	
17	Electrical Upgrades for Added Pump	1	LS	\$ 46,247.00		46,247.00	-	46,247.00	100%	-	
18	New Concrete Pump Bases	2	EA	\$ 6,953.00		6,953.00	-	6,953.00	100%	-	
19	Reconfigure Existing Pump	1	LS	\$ 5,200.00		5,200.00	-	5,200.00	100%	-	
20	New Piping, valves and fittings, in Wet Well	1	LS	\$ 212,044.00		212,044.00	-	212,044.00	100%	-	
21	Pressure gauges and assemblies	4	EA	\$ 660.00		660.00	-	660.00	100%	-	
22	Jib Crane Addition in North Dry Well	1	LS	\$ 29,355.00		29,355.00	-	29,355.00	100%	-	
23	Electrical Upgrade for Jib Crane	1	LS	\$ 3,966.00		3,966.00	-	3,966.00	100%	-	
24	Access Stairway	1	LS	\$ 48,204.00		48,204.00	-	48,204.00	100%	-	
25	Access Platforms Revisions	1	LS	\$ 11,330.00		11,330.00	-	11,330.00	100%	-	
26	New Pressure Manholes at Elevation 551 - Complete	4	EA	\$ 8,135.00		8,135.00	-	8,135.00	100%	-	
27	Core Infill at Elevation 551	1	LS	\$ 1,030.00		1,030.00	-	1,030.00	100%	-	
28	Core at Patch Repair Type 1	28	EA	\$ 200.00		200.00	-	200.00	100%	-	
29	Pressure Injection of Cracks Type 2A (Non-Weeping)	150	LF	\$ 50.00		7,500.00	-	7,500.00	100%	-	
30	Pressure Injection of Cracks Type 2B (Weeping)	50	LF	\$ 50.00		2,500.00	-	2,500.00	100%	-	
31	Concrete Surface Repair Type 3 - Up to 1" Depth	16	SF	\$ 400.00		6,400.00	-	6,400.00	100%	-	
32	Concrete Surface Repair Type 3 - 1" to 3" Depth	10	SF	\$ 400.00		4,000.00	-	4,000.00	100%	-	
33	Concrete Surface Repair Type 3 - Greater than 3"	5	SF	\$ 400.00		2,000.00	-	2,000.00	100%	-	
34	Existing Guardrail Removal Repair Type 4	15	EA	\$ 200.00		3,000.00	-	3,000.00	100%	-	
35	Allowance for MCJET Work at PLC	1	ALLOW	\$ 10,000.00		10,000.00	-	10,000.00	100%	-	
				Original Contract Totals		\$ 1,162,472.00	\$ 135,998.64	\$ 903,145.64	78%	\$ 259,326.36	

Contractor's Application for Payment

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

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

Application No.: 3		Application Period: From 07/16/20 to 09/04/20		Application Date: 09/23/20					
A Bid Item No.	B Description	C Contract Information		G Work Completed	H Value of Work Completed to Date (E X G) (\$)	I Materials Currently Stored (not in G) (\$)	J Work Completed and Materials Stored to Date (H+I) (\$)	K % of Value of Item (J / F) (%)	L Balance to Finish (F - J) (\$)
		D Item Quantity	E Units						
1	Flash Boards	1.00	LS	1.00	40,000.00		40,000.00	100%	-
2	Delete Stop Logs (Items 5 and 6)	1.00	LS	1.00	(136,200.00)		(136,200.00)	100%	-
		Change Order Totals			\$ (96,200.00)	\$	\$ (96,200.00)	100%	\$
		Change Orders			40,000.00		40,000.00	100%	-
		Original Contract and Change Orders			\$ 670,947.00	\$ 135,998.64	\$ 806,945.64	76%	\$ 259,326.36
		Project Totals			\$ 1,066,272.00				

Contractor's Application for Payment

WWS-2019-022
20180363

Owner's Project No.:
Engineer's Project No.:
Contractor's Project No.:

Stored Materials Summary

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

Application No.: 3		Application Period: From 07/16/20 to 09/04/20										Application Date: 09/23/20	
A	B	C	D	E	F	G	H	I	J	K	L	M	
Item No. (Lump Sum Tab) or Bid Item No. (Unit Price Tab)	Supplier Invoice No.	Submittal No. (with Specification Section No.)	Description of Materials or Equipment Stored	Storage Location	Application No. When Materials Placed in Storage	Previous Amount Stored (\$)	Materials Stored Amount Stored this Period (\$)	Amount Stored to Date (G+H) (\$)	Amount Previously Incorporated in the Work (\$)	Amount Incorporated in the Work this Period (\$)	Total Amount Incorporated in the Work (J+K) (\$)	Materials Remaining in Storage (L-M) (\$)	
20	20201222	009 - 15100	Bonnetted Knife Gates	JFC Shop	2	-	126,349.44	126,349.44	-	-	-	126,349.44	
20	20201311	010 - 15100	Swing Check Valves	JFC Shop	2	-	9,649.20	9,649.20	-	-	-	9,649.20	
Totals \$						-	\$ 135,998.64	\$ 135,998.64	\$	\$	\$	\$ 135,998.64	

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

TO OWNER: PROJECT: 1/2 Mile Relief Drain Drainage Distri Chapaton Pump Station Dry Weather Pump CP APPLICATION NO: 3 APPLICATION DATE: September 9, 2020

FROM CONTRACTOR: VIA ARCHITECT: Hubbell, Roth and Clark, Inc. PERIOD TO: 4-Sep-20 DISTRIBUTION TO: OWNER: ARCHITECT: HRC CONTRACTOR: J.F. Cavanaugh Co.

J.F. Cavanaugh Company 20750 Sunnydale, Farm. Hls. MI 48336 535 Griswold Street, Suite 1650, Detroit MI 48226 CONTRACT DATE: 16-Jul-20

CONTRACT FOR: Warren WWTP Screen Replacement

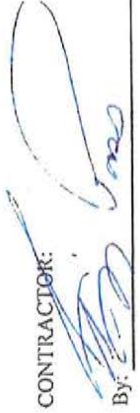
CONTRACTOR'S APPLICATION FOR PAYMENT

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

- 1. ORIGINAL CONTRACT SUM \$ 1,162,472.00
- 2. Net change by Change Orders \$ (96,200.00)
- 3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 1,066,272.00
- 4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ 806,945.64
- 5. RETAINAGE:
 - a. 10 % of Completed Work \$ 53,313.60
 - b. % of Stored Material \$
- 33 Total Retainage (Lines 5a + 5b or (Column F on G703) \$ 75,688.00
- 6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total) \$ 753,632.04
- 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 535,442.98
- 8. CURRENT PAYMENT DUE \$ 218,189.06
- 9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ 312,639.96

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	
Total approved this Month	\$40,000.00	(\$136,200.00)
TOTALS	\$40,000.00	(\$136,200.00)
NET CHANGES by Change Order		(\$96,200.00)

CONTRACTOR:

By:  Date: 9/9/2020

State of: Michigan County of: Wayne
 Notary Public:
 My Commission expires:

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.)

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.

THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., N.W., WASHINGTON, DC 20006-5292

CONTINUATION SHEET

AIA DOCUMENT G703

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

APPLICATION NO: 3

APPLICATION DATE: 9-Sep-20

PERIOD TO: 4-Sep-20

Project: Chapaton Pump Station Dry Weather Pump and Screen Improvements

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.

A ITEM NO.	B DESCRIPTION OF WORK	C UNITS	D UNIT PRICE	E EXTENSION	F		G MATERIALS PRESENTLY STORED	H TOTAL COMPLETED AND STORED TO DATE	I %	J BALANCE TO FINISH	K RETAINAGE (IF VARIABLE RATE)
					FROM PREVIOUS APPLICATION	WORK COMPLETED THIS PERIOD					
1	Bonds, Insurance, Mobilization	1	\$ 60,500.00	\$ 60,500.00	\$ 60,500.00	\$ -	\$ -	\$ 60,500.00	100.00%	\$ -	\$ -
2	Pre-Construction Audio Video	1	\$ 2,500.00	\$ 2,500.00	\$ -	\$ 2,500.00	\$ -	\$ 2,500.00	100.00%	\$ -	\$ -
3	Flow Diversion During Construction - South Side	1	\$ 10,650.00	\$ 10,650.00	\$ 10,650.00	\$ -	\$ -	\$ 10,650.00	100.00%	\$ -	\$ -
4	Flow Diversion During Construction - North Side	1	\$ 10,650.00	\$ 10,650.00	\$ 10,650.00	\$ -	\$ -	\$ 10,650.00	100.00%	\$ -	\$ -
5	New Stop Logs, Guides, Realted Str - South Side	1	\$ 49,950.00	\$ 49,950.00	\$ 49,950.00	\$ -	\$ -	\$ 49,950.00	100.00%	\$ -	\$ -
6	New Stop Logs, Guides, Realted Str - North Side	1	\$ 86,250.00	\$ 86,250.00	\$ 86,250.00	\$ -	\$ -	\$ 86,250.00	100.00%	\$ -	\$ -
7	Remove Existing Bar Rack, Install New - South Side	1	\$ 158,260.00	\$ 158,260.00	\$ 158,260.00	\$ -	\$ -	\$ 158,260.00	100.00%	\$ -	\$ -
8	Remove Existing Bar Rack, Install New - North Side	1	\$ 158,260.00	\$ 158,260.00	\$ 158,260.00	\$ -	\$ -	\$ 158,260.00	100.00%	\$ -	\$ -
9	Access Revisions in Screen Room	1	\$ 89,433.00	\$ 89,433.00	\$ -	\$ 89,433.00	\$ -	\$ 89,433.00	100.00%	\$ -	\$ -
10	Guardrail Revision in Screen Room	1	\$ 16,638.00	\$ 16,638.00	\$ -	\$ 16,638.00	\$ -	\$ 16,638.00	100.00%	\$ -	\$ -
11	I&C Upgrades in Screen Room	1	\$ 12,618.00	\$ 12,618.00	\$ -	\$ 12,618.00	\$ -	\$ 12,618.00	24.04%	\$ 12,638.00	\$ -
12	Core Through Wet Well Wall	1	\$ 3,960.00	\$ 3,960.00	\$ -	\$ 3,960.00	\$ -	\$ 3,960.00	100.00%	\$ -	\$ -
13	Concrete Collar in Wet Well	1	\$ 13,712.00	\$ 13,712.00	\$ -	\$ 13,712.00	\$ -	\$ 13,712.00	100.00%	\$ -	\$ -
14	Through Wall Pipe Penetration	1	\$ 6,203.00	\$ 6,203.00	\$ -	\$ 6,203.00	\$ -	\$ 6,203.00	100.00%	\$ -	\$ -
15	North Dry Well Demolition Work	1	\$ 24,863.00	\$ 24,863.00	\$ -	\$ 24,863.00	\$ -	\$ 24,863.00	90.01%	\$ 2,483.00	\$ -
16	Install New Owner Furnished Pump	1	\$ 9,843.00	\$ 9,843.00	\$ -	\$ 9,843.00	\$ -	\$ 9,843.00	0.00%	\$ 9,843.00	\$ -
17	Electrical Upgrades for Added Pump	1	\$ 46,247.00	\$ 46,247.00	\$ -	\$ 46,247.00	\$ -	\$ 46,247.00	0.00%	\$ 46,247.00	\$ -
18	New Concrete Pump Bases	1	\$ 13,906.00	\$ 13,906.00	\$ -	\$ 13,906.00	\$ -	\$ 13,906.00	0.00%	\$ 13,906.00	\$ -
19	Reconfigure Existing Pump	1	\$ 5,200.00	\$ 5,200.00	\$ -	\$ 5,200.00	\$ -	\$ 5,200.00	28.85%	\$ 3,700.00	\$ -
20	New Piping, valves, and fittings, in Wet Well	1	\$ 212,044.00	\$ 212,044.00	\$ 212,044.00	\$ -	\$ -	\$ 212,044.00	80.64%	\$ 41,045.36	\$ -
21	Pressure Gauges and Assemblies	1	\$ 2,640.00	\$ 2,640.00	\$ -	\$ 2,640.00	\$ -	\$ 2,640.00	0.00%	\$ 2,640.00	\$ -
22	Jib Crane Addition in North Dry Well	1	\$ 29,355.00	\$ 29,355.00	\$ -	\$ 29,355.00	\$ -	\$ 29,355.00	100.00%	\$ -	\$ -
23	Electrical Upgrade for Jib Crane	1	\$ 3,966.00	\$ 3,966.00	\$ -	\$ 3,966.00	\$ -	\$ 3,966.00	100.00%	\$ -	\$ -
24	Access Stairway	1	\$ 48,204.00	\$ 48,204.00	\$ 48,204.00	\$ -	\$ -	\$ 48,204.00	17.77%	\$ 39,636.00	\$ -
25	Access Platform Revisions	1	\$ 11,330.00	\$ 11,330.00	\$ 11,330.00	\$ -	\$ -	\$ 11,330.00	100.00%	\$ -	\$ -
26	New Pressure Manholes at EL 551 - Complete	1	\$ 32,540.00	\$ 32,540.00	\$ 32,540.00	\$ -	\$ -	\$ 32,540.00	0.00%	\$ 32,540.00	\$ -
27	Core Fill at Elevation 551	1	\$ 1,030.00	\$ 1,030.00	\$ -	\$ 1,030.00	\$ -	\$ 1,030.00	0.00%	\$ 1,030.00	\$ -
28	Core at Patch Repair Type 1	28	\$ 200.00	\$ 5,600.00	\$ -	\$ -	\$ -	\$ 5,600.00	0.00%	\$ 5,600.00	\$ -
29	Pressure Inj of Cracks Type 2A (Non-Weeping)	150	\$ 50.00	\$ 7,500.00	\$ -	\$ -	\$ -	\$ 7,500.00	0.00%	\$ 7,500.00	\$ -
30	Pressure Injection of Cracks Type 2A (Weeping)	50	\$ 50.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ 2,500.00	0.00%	\$ 2,500.00	\$ -
31	Concrete Surface Repair Type 3 - Up to 1" Depth	16	\$ 400.00	\$ 6,400.00	\$ -	\$ -	\$ -	\$ 6,400.00	0.00%	\$ 6,400.00	\$ -
32	Concrete Surface Repair Type 3 - 1" to 3" Depth	10	\$ 400.00	\$ 4,000.00	\$ -	\$ -	\$ -	\$ 4,000.00	0.00%	\$ 4,000.00	\$ -
33	Conc Surface Repair Type 3 - Greater than 3" Depth	5	\$ 400.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ 2,000.00	0.00%	\$ 2,000.00	\$ -
34	Existing Guardrail Removal Repair Type 4	15	\$ 200.00	\$ 3,000.00	\$ -	\$ -	\$ -	\$ 3,000.00	0.00%	\$ 3,000.00	\$ -
CO#1	Flashboards	1	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -	\$ -	\$ 10,000.00	0.00%	\$ 10,000.00	\$ -
CO#2	Deletion of Stop Logs	1	\$ 40,000.00	\$ 40,000.00	\$ 40,000.00	\$ -	\$ -	\$ 40,000.00	100.00%	\$ -	\$ -
			\$ (136,200.00)	\$ (136,200.00)	\$ (136,200.00)	\$ -	\$ -	\$ (136,200.00)	100.00%	\$ -	\$ -
	SUB TOTALS			\$ 1,066,272.00	\$ 594,936.64	\$ 212,009.00	\$ -	\$ 806,945.64	75.68%	\$ 259,326.36	\$ -

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 AIA DOCUMENT G703 - CONTINUATION SHEET FOR G702 - 1992 EDITION - AIA® ©1992
 THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W. WASHINGTON, D.C. 20005-5232



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	9/16/20
4. SET ID	5. POST DATE	
VP200916MA		

PARENT RECORD INFORMATION

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
Meadowbrook Insurance	V72943	02	5399	9/10/2020	131,968.75

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	22 Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object							
A	8210166M	91101	CC0018	91101	WO18300	MIDDD	OOMB-5013191-0920 (9/4/20-12/31/20)	\$ 11,877.19	GEN		
B	8210166M	12301	CC0018	12301	WO18300	MIDDD	OOMB-5013191-0920 (1/1/21-3/24/24)	\$ 95,017.50	GEN		0
C	8210017M	91101	CC0004	91101	WO18006	8 1/2 Mile Relief	OOMB-5013191-0920 (9/4/20-12/31/20)	\$ 2,786.01	GEN		0
D	8210017M	12301	CC0004	12301	WO18006	8 1/2 Mile Relief	OOMB-5013191-0920 (1/1/21-3/24/24)	\$ 22,288.05	GEN		0
E											
F											
G											

23. Total: \$ 131,968.75

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/rmh	30. Drain:	8 1/2 Mile Relief; MIDDD
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	9/22/2020
28. Managers:		33. Board Date:	10/19/2020
29. Coordinator:		34. Select For Pay Date:	



16142 Collection Center Drive
 Chicago, IL 60693-0002
 (877) 759-4365

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

Invoice # 5399	Page 1 of 1
Account Number	Date
MACOCOU-02	9/10/2020
BALANCE DUE ON	
9/30/2020	
AMOUNT PAID	Amount Due
	\$131,968.75

Payment Methods:

ACH/Wire Information

Bank of America
 Acct Name: Meadowbrook Inc.
 Acct Number: 5401978514
 ACH: Acct ABA #: 071000039
 Wire: Acct ABA #: 026009593

Make checks payable to:

Meadowbrook Insurance Agency

Owners Protective Professional Indemnity Policy Number OOMB-5013191-0920 Effective: 9/4/2020 to 3/4/2024

Item #	Trans Eff Date	Due Date	Trans	Description	Amount
249928	9/4/2020	9/30/2020	NEWB	MCPW Owners Protective Professional Indemnity	\$128,750.00
249929	9/4/2020	9/30/2020	GSFE	Government Stamping Fee	\$643.75
249930	9/4/2020	9/30/2020	GSLT	Government Surplus Lines Tax	\$2,575.00
Total Invoice Balance:					\$131,968.75

Payment due upon receipt.

Meadowbrook Insurance Apportionment and Pre-paid amounts

		8 1/2 Mile Relief 19% of Premiums		Prepaid	
Invoice	Policy	Apportionment	Current Year	Apportionment	Prepaid
Inv #5399	Indemnity	\$25,074.06	\$2,786.01	\$22,288.05	\$22,288.05
Inv #5401	Builder's Risk	\$37,990.88	\$4,221.21	\$33,769.67	\$33,769.67
Inv #5402	Pollution Liability	\$10,878.35	\$1,208.71	\$9,669.64	\$9,669.64

		8 1/2 Mile 20% of Fee		Prepaid	
Invoice	Policy	Apportionment	Current Year	Apportionment	Prepaid
Inv #5403	Admn Fee	\$22,000.00	\$5,500.00	\$16,500.00	\$16,500.00

		MIDDD 81% of Premiums		Prepaid	
Invoice	Policy	Apportionment	Current Year	Apportionment	Prepaid
Inv #5399	Indemnity	\$106,894.69	\$11,877.19	\$95,017.50	\$95,017.50
Inv #5401	Builder's Risk	\$161,961.12	\$17,995.68	\$143,965.44	\$143,965.44
Inv #5402	Pollution Liability	\$46,376.10	\$5,152.90	\$41,223.20	\$41,223.20

		MIDDD 80% of Fee		Prepaid	
Invoice	Policy	Apportionment	Current Year	Apportionment	Prepaid
Inv #5403	Admn Fee	\$88,000.00	\$22,000.00	\$66,000.00	\$66,000.00

		MIDDD 100%		Prepaid	
Invoice	Policy	Apportionment	Current Year	Apportionment	Prepaid
Inv #5419	Gen Liability	\$124,222.45	\$20,703.74	\$103,518.71	\$103,518.71
Inv #5420	Excess \$5M x Primary	\$84,145.05	\$14,024.18	\$70,120.87	\$70,120.87
Inv #5421	Excess \$5M x \$5M	\$49,092.38	\$8,182.06	\$40,910.32	\$40,910.32
Inv #5422	Excess \$10M x \$10M	\$70,216.88	\$11,702.81	\$58,514.07	\$58,514.07
Inv #5423	Excess \$15M x \$20M	\$67,957.50	\$11,326.25	\$56,631.25	\$56,631.25
Inv #5424	Excess \$15M x \$35M	\$51,500.00	\$8,583.33	\$42,916.67	\$42,916.67



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 9/16/20
4. SET ID VP200916MA		
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) 5401
		10. Invoice Date 9/10/2020	11. Invoice Amount \$ 199,952.00

CHILD RECORD DETAIL INFORMATION										
Line	General Ledger			15. Object	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)							
A	8210166M	91101	CC0018	91101	WO18300	MIDDD	111177256 001(2020)	\$ 17,995.68	GEN	
B	8210166M	12301	CC0018	12301	WO18300	MIDDD	111177256 001 (1/1/21-3/4/24)	\$ 143,965.44	GEN	0
C	8210017M	91101	CC0004	91101	WO18006	8 1/2 Mile Relief	111177256 001(2020)	\$ 4,221.21	GEN	0
D	8210017M	12301	CC0004	12301	WO18006	8 1/2 Mile Relief	111177256 001 (1/1/21-3/4/24)	\$ 33,769.67	GEN	0
E										
F										
G										

REV 09/2016

23. Total: \$ 199,952.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief; MIDDD
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	9/22/2020
28. Managers:		33. Board Date:	10/19/2020
29. Coordinator:		34. Select For Pay Date:	



16142 Collection Center Drive
 Chicago, IL 60693-0002
 (877) 759-4365

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

Invoice # 5401	Page 1 of 1
Account Number	Date
MACOCOU-02	9/10/2020
BALANCE DUE ON	
9/30/2020	
AMOUNT PAID	Amount Due
	\$199,952.00

Payment Methods:

ACH/Wire Information

Bank of America
 Acct Name: Meadowbrook Inc.
 Acct Number: 5401978514
 ACH: Acct ABA #: 071000039
 Wire: Acct ABA #: 026009593

Make checks payable to:

Meadowbrook Insurance Agency

Builders Risk	Policy Number 111177256 001	Effective: 9/4/2020 to 3/4/2024
---------------	-----------------------------	---------------------------------

Item #	Trans Eff Date	Due Date	Trans	Description	Amount
250918	9/4/2020	9/30/2020	NEWB	MCPW OCIP Builder's Risk	\$199,952.00
Total Invoice Balance:					\$199,952.00

Payment due upon receipt.



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 9/16/20
4. SET ID VP200916MA		
5. POST DATE		

6. VENDOR NAME (Check to be issued to) Meadowbrook Insurance	7. VENDOR NUMBER V72943	8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 5402	10. Invoice Date 9/10/2020	11. Invoice Amount 57,254.45
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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
A	8210166M	91101	91101	WO18300	MIDDD	Binder187720 (9/4/20 - 12/31/20)	\$ 5,152.90	GEN	
B	8210166M	12301	12301	WO18300	MIDDD	Binder187720 (1/1/21-3/4/24)	\$ 41,223.20	GEN	0
C	8210017M	91101	91101	WO18006	8 1/2 Mile Relief	Binder187720 (9/4/20 - 12/31/20)	\$ 1,208.71	GEN	0
D	8210017M	12301	12301	WO18006	8 1/2 Mile Relief	Binder187720 (1/1/21-3/4/24)	\$ 9,669.64	GEN	0
E									
F									
G									

REV 09/2018

23. Total: \$ **57,254.45**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief; MIDDD
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	9/22/2020
28. Managers:		33. Board Date:	10/19/2020
29. Coordinator:		34. Select For Pay Date:	



16142 Collection Center Drive
 Chicago, IL 60693-0002
 (877) 759-4365

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

Invoice # 5402	Page 1 of 1
Account Number	Date
MACOCOU-02	9/10/2020
BALANCE DUE ON	
9/9/2020	
AMOUNT PAID	Amount Due
	\$57,254.45

Payment Methods:

ACH/Wire Information

Bank of America
 Acct Name: Meadowbrook Inc.
 Acct Number: 5401978514
 ACH: Acct ABA #: 071000039
 Wire: Acct ABA #: 026009593

Make checks payable to:

Meadowbrook Insurance Agency

Pollution Liability	Policy Number BINDER187720	Effective: 9/4/2020 to 3/4/2024
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Item #	Trans Eff Date	Due Date	Trans	Description	Amount
250919	9/4/2020	9/9/2020	NEWB	MCPW OCIP Contractor's Pollution Liability Insurance	\$55,858.00
250920	9/4/2020	9/9/2020	GSFE	Government Stamping Fee	\$279.29
250921	9/4/2020	9/9/2020	GSLT	Government Surplus Lines Tax	\$1,117.16
Total Invoice Balance:					\$57,254.45

Payment due upon receipt.

Meadowbrook Insurance Apportionment and Pre-paid amounts

8 1/2 Mile Relief 19% of Premiums			
Apportionment	Current Year	Prepaid	
\$25,074.06	\$2,786.01	\$22,288.05	
\$37,990.88	\$4,221.21	\$33,769.67	
\$10,878.35	\$1,208.71	\$9,669.64	

8 1/2 Mile 20% of Fee			
Apportionment	Current Year	Prepaid	
\$22,000.00	\$5,500.00	\$16,500.00	

Invoice Policy	Months	Invoice Total	MIDDD 81% of Premiums		
			Apportionment	Current Year	Prepaid
Inv #5399 Indemnity	36	\$131,968.75	\$106,894.69	\$11,877.19	\$95,017.50
Inv #5401 Builder's Risk	36	\$199,952.00	\$161,961.12	\$17,995.68	\$143,965.44
Inv #5402 Pollution Liability	36	\$57,254.45	\$46,376.10	\$5,152.90	\$41,223.20

MIDDD 80% of Fee			
Apportionment	Current Year	Prepaid	
\$88,000.00	\$22,000.00	\$66,000.00	

Invoice Policy	Months	Invoice Total	MIDDD 100%		
			Apportionment	Current Year	Prepaid
Inv #5419 Gen Liability	24	\$124,222.45	\$124,222.45	\$20,703.74	\$103,518.71
Inv #5420 Excess \$5M x Primary	24	\$84,145.05	\$84,145.05	\$14,024.18	\$70,120.87
Inv #5421 Excess \$5M x \$5M	24	\$49,092.38	\$49,092.38	\$8,182.06	\$40,910.32
Inv #5422 Excess \$10M x \$10M	24	\$70,216.88	\$70,216.88	\$11,702.81	\$58,514.07
Inv #5423 Excess \$15M x \$20M	24	\$67,957.50	\$67,957.50	\$11,326.25	\$56,631.25
Inv #5424 Excess \$15M x \$35M	24	\$51,500.00	\$51,500.00	\$8,583.33	\$42,916.67



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	9/16/20
4. SET ID		
5. POST DATE		

VP00916MA

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
Meadowbrook Insurance		V72943	02	5403	9/10/2020	\$ 110,000.00

CHILD RECORD DETAIL INFORMATION												
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL		18. Description (MAX = 30 CHARACTERS)	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 = 16 CHARACTERS)					
A	8210166M	91101	CC0018	91101	WO18300	MIDDD		Adm Fee (9/4/20 - 12/31/20)	\$ 22,000.00	GEN		
B	8210166M	12301	CC0018	12301	WO18300	MIDDD		Adm Fee (1/1/21 - 9/4/21)	\$ 66,000.00	GEN		0
C	8210017M	91101	CC0004	91101	WO18006	8 1/2 Mile Relief		Adm Fee (9/4/20 - 12/31/20)	\$ 5,500.00	GEN		0
D	8210017M	12301	CC0004	12301	WO18006	8 1/2 Mile Relief		Adm Fee (1/1/21 - 9/4/21)	\$ 16,500.00	GEN		0
E	44											
F												
G												

23. Total: \$ 110,000.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: BM/mh

26. Chief Deputy: 8 1/2 Mile Relief; MIDDD

27. Engineers: N/A

28. Managers: 9/22/2020

29. Coordinator: 10/19/2020



16142 Collection Center Drive
Chicago, IL 60693-0002
(877) 759-4365

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

Invoice # 5403	Page 1 of 1
Account Number	Date
MACOCOU-02	9/10/2020
BALANCE DUE ON	
9/30/2020	
AMOUNT PAID	Amount Due
	\$110,000.00

Payment Methods:

ACH/Wire Information

Bank of America
Acct Name: Meadowbrook Inc.
Acct Number: 5401978514
ACH: Acct ABA #: 071000039
Wire: Acct ABA #: 026009593

Make checks payable to:

Meadowbrook Insurance Agency

Service Fee	Policy Number MCPWOCIPADMINFEE	Effective: 9/4/2020 to 9/4/2021
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Item #	Trans Eff Date	Due Date	Trans	Description	Amount
250956	9/4/2020	9/30/2020	NEWB	Macomb County Public Works OCIP Administration Fee	\$110,000.00
Total Invoice Balance:					\$110,000.00

Payment due upon receipt.

Meadowbrook Insurance Apportionment and Pre-paid amounts

		8 1/2 Mile Relief 19% of Premiums		
Invoice	Policy	Apportionment	Current Year	Prepaid
Inv #5399	Indemnity	\$25,074.06	\$6,268.52	\$18,805.54
Inv #5401	Builder's Risk	\$37,990.88	\$9,497.72	\$28,493.16
Inv #5402	Pollution Liability	\$10,878.35	\$2,719.59	\$8,158.76

		8 1/2 Mile 20% of Fee		
Invoice	Policy	Apportionment	Current Year	Prepaid
Inv #5403	Admn Fee	\$22,000.00	\$5,500.00	\$16,500.00

		MIDDD 81% of Premiums		
Invoice	Policy	Apportionment	Current Year	Prepaid
Inv #5399	Indemnity	\$106,894.69	\$26,723.67	\$80,171.02
Inv #5401	Builder's Risk	\$161,961.12	\$40,490.28	\$121,470.84
Inv #5402	Pollution Liability	\$46,376.10	\$11,594.03	\$34,782.07

		MIDDD 80% of Fee		
Invoice	Policy	Apportionment	Current Year	Prepaid
Inv #5403	Admn Fee	\$88,000.00	\$22,000.00	\$66,000.00

		MIDDD 100%		
Invoice	Policy	Apportionment	Current Year	Prepaid
Inv #5419	Gen Liability	\$124,222.45	\$31,055.61	\$93,166.84
Inv #5420	Excess \$5M x Primary	\$84,145.05	\$21,036.26	\$63,108.79
Inv #5421	Excess \$5M x \$5M	\$49,092.38	\$12,273.10	\$36,819.28
Inv #5422	Excess \$10M x \$10M	\$70,216.88	\$17,554.22	\$52,662.66
Inv #5423	Excess \$15M x \$20M	\$67,957.50	\$16,989.38	\$50,968.12
Inv #5424	Excess \$15M x \$35M	\$51,500.00	\$12,875.00	\$38,625.00

Invoice	Policy	Invoice Total
Inv #5419	Gen Liability	\$124,222.45
Inv #5420	Excess \$5M x Primary	\$84,145.05
Inv #5421	Excess \$5M x \$5M	\$49,092.38
Inv #5422	Excess \$10M x \$10M	\$70,216.88
Inv #5423	Excess \$15M x \$20M	\$67,957.50
Inv #5424	Excess \$15M x \$35M	\$51,500.00



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 9/2/20
4. SET ID VP200916HA		
5. POST DATE		

6. VENDOR NAME (Check to be issued to) Premier Safety	7. VENDOR NUMBER V62291	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 4184231	10. Invoice Date 9/9/2020	11. Invoice Amount \$ 932.40
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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	72613	CC0004	72613	WO18006	8 1/2 Mile Relief	Cust #1007555, Order #04112498	\$	699.30	GEN		0
B	8210072M	72613				Martin	Cust #1007555, Order #04112498	\$	139.86	GEN		0
C	8713018M	72613				SEMCWWDS (BH)	Cust #1007555, Order #04112498	\$	46.62	GEN		0
D	8713018M	72613				SEMCWWDS (V)	Cust #1007555, Order #04112498	\$	46.62	GEN		0
E												
F												
G												

REV 09/2018

23. Total: \$ **932.40**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Coverall 2X Zip Front With OOD Boots

cm/mh

25. Finance Officer: _____
 26. Chief Deputy: _____
 27. Engineers: _____
 28. Managers: _____
 29. Coordinator: _____

30. Drain: **Multiple**
 31. Project Balance: **N/A**
 32. Staff Date: **9/22/2020**
 33. Board Date: **10/19/2020**
 34. Select For Pay Date: _____



46400 Continental Drive
 Chesterfield, MI 48047
 PH 586-840-3200 FX 586-840-3201

REMIT TO
 Premier Safety
 PO Box 33757
 Detroit MI 48232-3757

Sales Invoice

INVOICE #	04184231
LOCATION	04
DATE	09/09/20
PAGE	1 of 2

BILL TO

1007555
 MACOMB CTY PUBLIC WORKS
 ATTN:****EMAIL INVOICES****
 21777 DUNHAM RD
 CLINTON TOWNSHIP, MI 48036-1005

SHIP TO

MACOMB COUNTY DPW
 23001 E 9 MILE RD
 SAINT CLAIR SHORES, MI 48080-1

ORDER NUMBER 04112498	ORDER DATE 04/06/20	CUSTOMER P/O NUMBER PUMP STATION	PAYMENT TERMS NET 30 DAYS
CUSTOMER SALES REP MIKE LYUBLIN PH: 586-840-3223	CONTACT LARRY LAVIGNE	SHIP VIA UPS GROUND	
FREIGHT TERMS PREPAY & ADD	JOB NUMBER	SALES PERSON DIMITRI PERVOLARAKIS	

PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
DUPTY122S2X COVERALL 2X ZIP FRONT WHITE H OOD BOOTS ELASTIC WRIST STO	4	4	0	218.3600	CS	873.44

MERCHANDISE TOTAL	FREIGHT & HANDLING	MISC CHARGE	TAX	INVOICE TOTAL
873.44	58.96	0.00	0.00	932.40

 www.PremierSafety.com	PAYMENT APPLIED	0.00
	CREDIT APPLIED	0.00
	BALANCE DUE	932.40

Premier Safety The smart choice for safety and environmental solutions



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 9/30/20
4. SET ID VP201002MA		5. POST DATE

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be Issued to) Rescue Training Services LLC	7. VENDOR NUMBER V77144
8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 08112020
10. Invoice Date 10/2/2020	11. Invoice Amount \$ 2,640.00

CHILD RECORD DETAIL INFORMATION				19. Amount	20. DIV	21. MISC	22 Sep CK
12. Org Key	13. Object	14. Job Ledger Cost Center (CCNT)	15. Object				
A	8210017M	95901	95901	\$ 1,980.00	GEN		
B	8210072M	95901		\$ 396.00	GEN		0
C	8713018M	95901		\$ 264.00	GEN		0
D							
E							
F							
G							

23. Total: \$ **2,640.00**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/rmh	30. Drain: Multiple
26. Chief Deputy:		31. Project Balance: N/A
27. Engineers:		32. Staff Date: 10/6/2020
28. Managers:		33. Board Date: 10/19/2020
29. Coordinator:		34. Select For Pay Date:

V77144

INVOICE #08112020 MACOMB SANT CSR 16HR REF

RESCUE TRAINING SERVICES LLC

3868 Burns Line
Croswell, Mi 48422
810-712-3090 / DUNS 081210782

DATE 10/2/2020

BILL TO

Kristofer Benda - Assistant Operations Manager
23001 East 9 Mile Rd St. Clair Shores, MI 48080

FOR

16 hour Confined Space refresher
per 29 CFR OSHA 1910.146 &
MIOSHA Part 90

Details

AMOUNT

16 Hours of Instructor for 29 CFR Confined Space 1910.146

& MIOSHA Part 90 - Entry/Attendant/Supervisor/Rescue Team \$2,640.00

payment - net 30 days

SUBTOTAL \$2,640.00

TAX RATE 0.00%

OTHER \$0.00

TOTAL \$2,640.00

Make all checks payable to RESCUE TRAINING SERVICES LLC

If you have any questions concerning this invoice, use the following contact information:

Kurt McFarlane, 810-712-3090, kurtfire911@gmail.com

THANK YOU FOR YOUR BUSINESS!



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

Mark A. Hackel
County Executive

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	9/30/20
4. SET ID		
5. POST DATE		
VP201002MA		

6. VENDOR NAME (Check to be issued to)		7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 15 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Tetra Tech, Inc.		V16060	02	51644958	9/30/2020	\$ 81,802.79

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	8210017C	80138	80138	WO19004	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 9/25/20	\$ 81,802.79	GEN	
B									
C									
D									
E									
F									
G									

23. Total: \$ 81,802.79

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
In-System Storage Devices - MEDC GRANT BALANCE \$975,109.43

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	\$721,887.10
27. Engineers:		32. Staff Date:	10/6/2020
28. Managers:		33. Board Date:	10/16/2020
29. Coordinator:		34. Select For Pay Date:	

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

WORK ORDER NUMBER	WO19004	
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	9/30/2020 (Invoice 51644958)	
INVOICE START DATE	8/22/2020	
INVOICE END DATE	9/25/2020	
ORIGINAL CONTRACT AMOUNT	\$	481,098.00
CHANGE ORDER TOTAL	\$	949,435.00
Change Order No. 1	\$	949,435.00
Change Order No. 2		
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	1,430,533.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	626,843.11
TOTAL AMOUNT DUE THIS INVOICE	\$	81,802.79
TOTAL BUDGET REMAINING	\$	721,887.10
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		

52
Credit Balance \$975,109.43 ✓

Chapaton RTB Canal Upgrades

Invoice #		Date	Amount
Wade Trim - Chapaton Canal Upgrades Contract Value (with Approved Change Orders)			\$1,387,874
M2014218	WADE TRIM	4/1/19	\$27,661.89
M2014455	WADE TRIM	4/26/19	\$45,574.73
M2014760	WADE TRIM	5/31/19	\$123,741.89
M2015047	WADE TRIM	7/1/19	\$82,296.39
M2015870	WADE TRIM	9/24/19	\$89,256.89
M2015339	WADE TRIM	7/30/19	\$81,989.55
M2015602	WADE TRIM	8/28/19	\$78,710.44
2016150	WADE TRIM	11/1/19	\$140,190.80
2016457	WADE TRIM	12/5/19	\$131,501.95
2016836	WADE TRIM	1/3/20	\$63,603.78
2017103	WADE TRIM	1/31/20	\$96,050.13
2017374	WADE TRIM	2/28/20	\$120,258.91
2017871	WADE TRIM	3/27/20	\$100,077.90
2017951	WADE TRIM	4/29/20	\$58,377.75
2018187	WADE TRIM	6/1/20	\$8,312.67

Jacob - Odor Evaluation Study Contract Value \$68,639

Inv #1	JACOBS	4/16/20	\$59,892.00
Inv #2	JACOBS	5/14/20	\$8,747.00

Tetra Tech - In-System Storage Contract Value (with Approved Change Orders) \$1,430,533

51471309	TETRA TECH	8/2/19	\$5,891.00
51486824	TETRA TECH	9/12/19	\$9,346.50
51519169	TETRA TECH	11/14/19	\$105,806.32
51532937	TETRA TECH	12/18/19	\$60,288.70
51533040	TETRA TECH	12/19/19	\$23,104.82
51540373	TETRA TECH	1/10/20	\$60,213.92
51548755	TETRA TECH	1/31/20	\$25,087.35
51561487	TETRA TECH	3/4/20	\$37,671.68
51571567	TETRA TECH	4/2/20	\$42,241.43
51583201	TETRA TECH	4/24/2020	\$17,286.00
51597243	TETRA TECH	6/5/20	\$13,300.51
51608770	TETRA TECH	7/8/20	\$70,565.00
51618840	TETRA TECH	8/3/20	\$69,131.63
51628645	TETRA TECH	8/28/20	\$86,908.25
51644958	TETRA TECH	9/30/20	\$81,802.79
Wade Trim Invoiced To Date			\$1,247,605.67
Jacobs Invoiced To Date			\$68,639.00
Tetra Tech Invoiced To Date			\$708,645.90
Balance of \$3M State Grant Remaining:			\$975,109.43

Wade Pjt Balance	\$140,268.33
JACOBS PJT Balance	\$0.00
Tetra Tech Pjt Balance	\$721,887.10



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: 51644958
INVOICE DATE: 09/30/2020
SERVICES THROUGH: 09/25/2020
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 01DS **Basis of Design Subcontractors**

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$4,952.50
TOTAL SUBCONTRACTOR CHARGES		\$4,952.50
SUBTOTAL		\$4,952.50
Total Top Task# 01DS		\$4,952.50

Top Task 02A **Project Management / Design**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Rubel, Brian M.	Program Manager	20.00	\$225.00	\$4,500.00
TOTAL LABOR		20.00		\$4,500.00
SUBTOTAL				\$4,500.00
Total Top Task# 02A				\$4,500.00

Top Task 02B **Design**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Boehmke, Brett	Engineer 2	1.00	\$115.00	\$115.00
Falkinburg, Jonathan R.	Sr CAD Designer 1	21.00	\$105.00	\$2,205.00
Geerlings, Eric P.	Project Engineer 1	44.00	\$155.00	\$6,820.00
Graf, Mitchell J.	Project Manager 2	0.75	\$200.00	\$150.00
Kaliman, Roger G.	Sr Engineer 1	13.50	\$180.00	\$2,430.00
Melling, Vickie L.	CAD Technician 2	8.00	\$80.00	\$640.00
Newman, Thomas S.	Architect	12.00	\$137.00	\$1,644.00
Paison, William A.	Sr Engineer 1	22.00	\$215.00	\$4,730.00
Shetty, Sohan P.	Engineer 2	23.00	\$105.00	\$2,415.00
Sissoko, Moussa D.	Sr Engineer 2	9.00	\$200.00	\$1,800.00
TOTAL LABOR		154.75		\$22,949.00
SUBTOTAL				\$22,949.00
Total Top Task# 02B				\$22,949.00

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

INVOICE NUMBER: 51644958
INVOICE DATE: 09/30/2020
SERVICES THROUGH: 09/25/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Top Task	02BS_ECT	Design - Subcontractor ECT		CURRENT AMOUNT
SUBCONTRACTOR		TYPE		
ENVIRONMENTAL CONSULTING & TECHNOLOGY INC		Subcontractor-External		\$5,570.00
TOTAL SUBCONTRACTOR CHARGES				\$5,570.00
			SUBTOTAL	\$5,570.00
			Total Top Task# 02BS_ECT	\$5,570.00

Top Task	02BS_FKE	Design - Subcontractor FKE		CURRENT AMOUNT
SUBCONTRACTOR		TYPE		
FK ENGINEERING ASSOCIATES		Subcontractor-External		\$27,844.29
TOTAL SUBCONTRACTOR CHARGES				\$27,844.29
			SUBTOTAL	\$27,844.29
			Total Top Task# 02BS_FKE	\$27,844.29

Top Task	02BS_FTCH	Design - Subcontractor FTCH		CURRENT AMOUNT
SUBCONTRACTOR		TYPE		
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External		\$13,562.00
TOTAL SUBCONTRACTOR CHARGES				\$13,562.00
			SUBTOTAL	\$13,562.00
			Total Top Task# 02BS_FTCH	\$13,562.00

Top Task	02B_TCI	Design - TCI		CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
EMPLOYEE		TITLE				
Fradet, Olivier		Sr Engineer		1.00	\$180.00	\$180.00
Robitaille, Luc		Engineer 3		4.25	\$250.00	\$1,062.50
Tremblay, Simon		Sr Engineer I&C		5.50	\$215.00	\$1,182.50
TOTAL LABOR				10.75		\$2,425.00
				SUBTOTAL		\$2,425.00
				Total Top Task# 02B_TCI		\$2,425.00
				Total Project# 200-16347-19001		\$81,802.79

TOTAL AMOUNT DUE THIS INVOICE: \$81,802.79

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

INVOICE NUMBER: 51644958
INVOICE DATE: 09/30/2020
SERVICES THROUGH: 09/25/2020
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Gross Contract Summary	
Contract Amount	\$1,430,533.00
Previously Billed	\$626,843.11
Current Billing	\$81,802.79
Total Billed to Date	\$708,645.90
Contract Balance Remaining	\$721,887.10

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.

PMP



Environmental Consulting & Technology, Inc.

ACH

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

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

Invoice # : 203551
Invoice Date : 8/24/2020
Project : 190509
Project Name : MACOMB IN-SYS STRGE DEVICE-LANDA
Fed ID : 59-2921038
Terms : NET 10 DAYS

Attention: BRIAN RUBEL P E

Client Ref : TT PN - 200-16347-19001-1

For Professional Services Rendered through: 7/31/2020
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	5,835.00	0.00	25.29	5,835.00
0200 -- WELSH CONSTR DRAWINGS	42,750.00	1,700.00	2,600.00	10.06	4,300.00 (2)
0300 -- BEACONFIELD CONSTR DRAWINGS	7,775.00	0.00	85.00	1.09	85.00 (2)
Total Fee:	73,593.00				

Total Fee Earned To Date	10,220.00
Less Previous Billings	7,535.00
Amount Due this Invoice	2,685.00

P.O. 116661912

Project Manager : PATRICK J. JUDD
Billings : 000596

OK to pay when paid
B. Rubel
8/25/20

\$ 129566

200-16347-19001.02BS-ECT
Sub-EXT
200.1EW AA

RECEIVED
AUG 27 2020
TETRATECH

PMP

TR



Environmental Consulting & Technology, Inc.
3701 Northwest 98th Street
Gainesville, FL 32606 - 352-332-0444

ACH

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

Invoice # : 204085
Invoice Date : 9/17/2020
Project : 190509
Project Name : MACOMB IN-SYS STRGE DEVICE-LANDA
Fed ID : 59-2921038
Terms : NET 10 DAYS

Attention: BRIAN RUBEL P E

Client Ref : TT PN - 200-16347-19001-1

For Professional Services Rendered through: 8/28/2020
EMAIL INVOICE TO BRIAN.RUBEL@TETRATECH.COM

PO-116661912

Phase Code / Name	Phase Fee	Previous Amount	Current Amount	% Complete	Total Fee Earned
0100 -- STUDY	23,068.00	5,835.00	0.00	25.29	5,835.00
0200 -- WELSH CONSTR DRAWINGS	42,750.00	4,300.00	2,417.50	15.71	6,717.50
0300 -- BEACONFIELD CONSTR DRAWINGS	7,775.00	85.00	467.50	7.11	552.50
Total Fee:	73,593.00				

Total Fee Earned To Date	13,105.00
Less Previous Billings	10,220.00
Amount Due this Invoice	2,885.00

Project Manager : PATRICK J. JUDD
Billings : 000596

129566

OK to pay when paid
B. Rubel
9/17/20

200-16347-19001-0283-ECT
SUB-ECT
200 HEL AA



TR

FMP



Engineers | Architects | Scientists | Constructors

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

ACH

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

Invoice : 394177
Invoice Date : 8/17/2020
Project : 200732
Project Name : Macomb Co PW/In-system Storage
Design Phase
Bill Term : 1

For Professional Services Rendered Through 8/7/2020

1 - Task 1C - 8.5 Mile Utility Survey
Rate Labor 7,724.00

Fee	Available	Billings		
		To Date	Previous	Current
96,524.00	95,069.00	9,179.00	1,455.00	7,724.00

Current Billings 7,724.00
Amount Due This Bill 7,724.00

P.O. 1166522:5

OK to pay when paid

B. Rubel
8/21/20

200-16347-19001

103976

200-16347-19001-02BS-FTCH
SUB-EXT
200 IEW AA



FMP

Project: 200732 - Macomb Co PW/In-system Storage Design Phase

Invoice: 394177

1 - Task 1C - 8.5 Mile Utility Survey

<u>Rate Labor Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	29.00	130.0000	3,770.00
	1.50	175.0000	262.50
Total Senior Engineer	30.50		4,032.50
Senior Engineering Specialist	1.50	136.0000	204.00
Staff Engineer	37.50	93.0000	3,487.50
		Total Rate Labor	7,724.00
Total Bill Task: 1 - Task 1C - 8.5 Mile Utility Survey			7,724.00

Total Project: 200732 - Macomb Co PW/In-system Storage Design Phase

7,724.00



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

ACH

P.O. 1106522:5

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

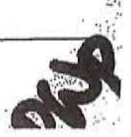
Invoice : 394665
 Invoice Date : 9/14/2020
 Project : 200732
 Project Name : Macomb Co PW/In-system Storage Design Phase
 Bill Term : 1

For Professional Services Rendered Through 9/4/2020

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1C - 8.5 Mile Utility Survey	96,524.00	87,345.00	15,017.00	9,179.00	5,838.00
Rate Labor		5,838.00			

Current Billings 5,838.00
 Amount Due This Bill 5,838.00

OK to pay when paid
B. Rubel
9/15/20 #103976
200-16347-1900.02BS-PTCH
SUB-EXT
200 FEE AA



1 - Task 1C - 8.5 Mile Utility Survey

Rate Labor Class	Hours	Rate	Amount
	0.50	70.0000	35.00
Production Support	2.50	175.0000	437.50
Senior Engineer	30.50	130.0000	3,965.00
Total Senior Engineer	33.00		4,402.50
Senior Engineering Specialist	1.00	136.0000	136.00
Senior Technician	6.00	110.0000	660.00
Staff Engineer	6.50	93.0000	604.50
Total Rate Labor			5,838.00
Total Bill Task: 1 - Task 1C - 8.5 Mile Utility Survey			5,838.00

Total Project: 200732 - Macomb Co PW/In-system Storage Design Phase

5,838.00



Engineers | Architects | Scientists | Constructors

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

P.O. 1166522: X

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

Invoice : 394827
 Invoice Date : 9/14/2020
 Project : 190884
 Project Name : Macomb Co PW/In-system Storage
 Bill Term : 1

For Professional Services Rendered Through 9/4/2020

	Fee	Available	Billings		
			To Date	Previous	Current
1.A - Task 1A - 8.5 Mile Project Management	4,493.85	0.00	4,493.85	4,493.85	0.00
1.B - Task 1B - 8.5 Mile Infrastructure Survey	65,938.40	0.00	65,938.40	65,938.40	0.00
1.C - Task 1C - 8.5 Mile Utility Survey	16,392.00	0.00	16,392.00	16,392.00	0.00
1.D - Task 1D - 8.5 Mile BOD/Addit Survey	25,042.75	12,866.25	15,449.00	12,176.50	3,272.50
Rate Labor		3,272.50			

Current Billings 3,272.50
 Amount Due This Bill 3,272.50

OK to pay when paid
 B. Rubel
 9/15/20 \$ 103976
 200-16347-19001
 .01DS - 3157.50 (1)
 115.00 (4)
 SUB-EXT
 200 1EU AA



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

<u>Rate Labor</u> <u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	4.00	175.0000	700.00
Senior Technician	24.50	105.0000	2,572.50
Total Rate Labor			3,272.50
Total Bill Task: 1.D - Task 1D - 8.5 Mile BOD/Addit Survey			3,272.50

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

3,272.50

PWP



ACH

Payment Options
Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit checks to: 1515 Arborum Drive, SE, Grand Rapids, Michigan 49546-4141
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: 394179
Invoice Date: 8/17/2020
Project: 190884
Project Name: Macomb Co PW/In-system Storage
Bill Term: 1

P.O. 1166522:1

For Professional Services Rendered Through 8/7/2020

	Fee	Available	Billings		
			To Date	Previous	Current
1.A - Task 1A - 8.5 Mile Project Management	4,493.85	0.00	4,493.85	4,493.85	0.00
1.B - Task 1B - 8.5 Mile Infrastructure Survey	65,938.40	0.00	65,938.40	65,938.40	0.00
1.C - Task 1C - 8.5 Mile Utility Survey	16,392.00	0.00	16,392.00	16,392.00	0.00
1.D - Task 1D - 8.5 Mile BOD/Addit Survey	25,042.75	14,546.25	12,176.50	10,496.50	1,680.00
Rate Labor		1,680.00			
Current Billings					1,680.00
Amount Due This Bill					1,680.00

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

103976
200-16347-19001.01DS
SUB-EXT
200 IN AA



PWP

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

Invoice: 394179

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

Rate Labor
Class

Hours

Rate

Amount

Senior Technician

16.00

105.0000

1,680.00

Total Rate Labor

1,680.00

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

1,680.00



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

OK to Pay - 09/08/2020

Brian M. Rubel

INVOICE

Invoice Date: 08/26/20
 Total Amount: \$27,844.29
 Number: 19-102-006
 Invoice Period: 07/05/20 - 08/21/20
PO Number: 116682612
 Project Code: 19-102
 Project: Macomb In-Line Storage

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

INVOICE SUMMARY

Description	Amount
Task 2 - Design Phase	\$17,058.25
Task 2 - Design Phase Expenses	\$10,786.04

Description	Total Budget	Remaining Budget (\$)	Prior Billing (\$)	This Invoice (\$)
Task 1 - Study Phase	\$15,000.00	\$4,896.15	\$10,103.85	--
Task 2 - Design Phase	\$68,000.00	\$17,511.33	\$22,644.38	\$27,844.29
	--	--	--	--
BUDGET TOTALS	\$83,000.00	\$22,407.48	\$32,748.23	\$27,844.29
TOTAL AMOUNT DUE				\$27,844.29

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

184671

200 - 16347 - 19001.02BS - FKE
 SUB - EXT
 200 IEL AA

RECEIVED
 SEP 10 2020
 TETRA TECH





PROJECT STATUS COMMUNICATION

DATE: September 28, 2020

PREPARED BY: Brian Rubel / Eric Geerlings

PROJECT: Macomb Co. In-System Storage Devices

PROJECT NO: 200-16347-19001 CONTACT: Mr. Vince Astorino / Mr. Steve Rozycki
(INVOICE 51644958)

Tasks completed or in-progress since last status communication.

Most of the month we spent on hold as MCPWO was validating the budget to proceed. We made some progress at the beginning and end of the month as described below:

- On August 28th, FKE completed Phase II Geotechnical Investigation Report for Welsh Family Park (supersedes Phase I report).
- Held progress meeting with MCPWO via video conference call on September 2nd to discuss 30% Design Deliverables.
- Drafted no-bypass design drawings for Welsh Park site, and provided updated budgetary costs for both Welsh Park site options.
- On September 10th, held a brief call with Steve Rozycki to discuss budgetary costs of Welsh Park site with and without bypass.
- Researched anticipated permitting requirements for construction excavation dewatering (water withdrawal) at Welsh Park site.
- On September 16th, held a brief call with Steve Rozycki to answer a follow-up question about bypass pros/cons table.
- On September 24th, received a call from Steve Rozycki confirming design should proceed for both sites with bypasses.
- Relayed MCPWO's response to Caesare de Ferranti regarding the inability to sign the non-disclosure agreement as written.
- On September 25th, e-mailed a proposed revised project schedule to Steve Rozycki.

Opportunities for cost avoidance or added value.

Impediments, roadblocks, assistance needed.

With the budget confirmed on the 24th, the next step is for MCPWO to complete internal review of the 30% design drawings and provide comments.

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

It may be necessary to target SRF loan closing in FY22 to accommodate the dam supplier's request for inflatable dam model test to be completed prior to advertising for bids.

Schedule:

Mecan-Hydro's proposed schedule for completing a scale model test will likely impact the bidding and construction schedule. Further alignment with MCPWO is needed to confirm the schedule.

Next task or action items.

1. Discuss and align on the updated project schedule with MCPWO to determine SRF schedule.
2. Assist MCPWO with decision regarding which inflatable dam vendor(s) to approve, and implement direction received.
3. Coordinate with utilities (electrical, gas, water, stormwater, sewer, and telecommunications).
4. Coordinate with public works departments for proposed pavement replacement design, road closures, and traffic control plans.
5. Refine the venting and odor control plan for St. Clair Shores sites based on feedback from MCPWO.
6. Begin compiling specifications for the project and add further details to drawings based on continued design and coordination as we prepare a 60% package.
7. Begin preparation of permitting documentation and reports.

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

Brian Rubel
Project Manager

Phone: (734) 649-4546

Email: Brian.Rubel@tetrattech.com



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST
PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Michelle Houvener	2. PHONE # 95966	3. DATE 9/30/20
4. SET ID V201002MA		
5. POST DATE		

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be issued to) Wade Trim	7. VENDOR NUMBER V09446
8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 2019175
10. Invoice Date 10/2/2020	11. Invoice Amount \$ 4,141.08

CHILD RECORD DETAIL INFORMATION											
Line	12. Org Key	13. Object	14. Job Ledger 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	CC0004	80138	WO19073	8 1/2 Mile Relief	Pjt #MCW200601T, thru 8/29-9/25	\$ 4,141.08	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ **4,141.08**

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

25. Finance Officer: _____ **BMI/mh**

26. Chief Deputy: _____ **8 1/2 Mile Relief**

27. Engineers: _____ **\$86,093.91**

28. Managers: _____ **10/6/2020**

29. Coordinator: _____ **10/17/2020**

30. Drain: _____

31. Project Balance: _____

32. Staff Date: _____

33. Board Date: _____

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 10/2/2020

INVOICE START DATE 8/29/2020

INVOICE END DATE 9/25/2020

ORIGINAL CONTRACT AMOUNT	\$	107,780.00
CHANGE ORDER TOTAL	\$	74,917.50
Change Order No. 1	\$	74,917.50
Change Order No. 2		
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	182,697.50
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	92,462.51
TOTAL AMOUNT DUE THIS INVOICE	\$	4,141.08
TOTAL BUDGET REMAINING	\$	86,093.91
(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 : 2019175
Invoice Date : 10/2/2020
Project : MCW200601T
Project Name : Chapaton RTB Disinfection
Improvements

For Professional Services Rendered For 8/29/2020 Through 9/25/2020

		<u>Billings</u>			
	Fee	Available	To Date	Previous	Current
	182,697.50	90,234.99	96,603.59	92,462.51	4,141.08
<i>Rate Labor</i>	3,977.50				
<i>Expenses</i>	27.58				
<i>Unit Rate Expense</i>	136.00				
<i>Total Expense</i>	163.58				

Current Billings	<u>4,141.08</u>
Amount Due This Bill	<u>4,141.08</u>

Total Fee :	182,697.50
To Date Billings :	<u>96,603.59</u>
Total Remaining :	86,093.91

100 - Project Management

Rate Labor

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Project Aide I				
Laura K Foxworthy	9/9/2020	0.50	65.0000	32.50
Project Aide II				
Jack R Simmons	9/21/2020	3.00	90.0000	270.00
Project Aide III				
Melanie A Phillips	9/10/2020	0.50	125.0000	62.50
Project Specialist II				
Kimberly M Addison	9/8/2020	0.50	145.0000	72.50
Senior Professional				
John Arvai	9/3/2020	0.50	260.0000	130.00
	9/14/2020	1.00	260.0000	260.00
	9/18/2020	0.50	260.0000	130.00
	9/21/2020	0.25	260.0000	65.00
	9/22/2020	0.25	260.0000	65.00
	9/25/2020	0.50	260.0000	130.00
		-----		-----
		3.00		780.00
Total Senior Professional				1,217.50

Total Rate Labor

Expenses

<u>Account / Vendor</u>	<u>Doc Number</u>	<u>Date</u>	<u>Cost</u>	<u>Multiplier</u>	<u>Amount</u>
Architctural/Engineering Supplies					
John Arvai	ER000155525	9/17/2020	11.99	1.150	13.79
Jason Obrycki-Smith	ER000155562	8/29/2020	11.99	1.150	13.79
			-----		-----
			23.98		27.58
Total Architectural/Engineering Supplies					27.58
Total Expenses					

Unit Rate Expenses

<u>Account / Unit / Vendor</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Equipment Usage Charges			
Photocopies - Color			
Jack R Simmons	544.00	0.2500	136.00
Total Unit Rate Expenses			
			136.00

Total Bill Task: 100 - Project Management

1,381.08

500 - Bidding

Rate Labor

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Engineer II				
Jason Obrycki-Smith	8/31/2020	0.25	105.0000	26.25
	9/3/2020	0.25	105.0000	26.25
	9/21/2020	0.50	105.0000	52.50
	9/24/2020	1.00	105.0000	105.00
		-----		-----
		2.00		210.00
Total Engineer II				210.00
Engineering Specialist II				
Robert J Marker	9/1/2020	1.50	165.0000	247.50
	9/3/2020	2.00	165.0000	330.00
	9/18/2020	2.00	165.0000	330.00
	9/23/2020	0.50	165.0000	82.50

500 - Bidding

Rate Labor

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Total Engineering Specialist II		6.00		990.00
Senior Professional				
John Arvai	9/3/2020	2.00	260.0000	520.00
	9/8/2020	1.00	260.0000	260.00
	9/15/2020	0.50	260.0000	130.00
	9/23/2020	0.50	260.0000	130.00
Jeffrey W Reynhout	8/31/2020	1.00	260.0000	260.00
	9/1/2020	1.00	260.0000	260.00
Total Senior Professional		6.00		1,560.00
			Total Rate Labor	2,760.00
Total Bill Task: 500 - Bidding				2,760.00

Total Project: MCW200601T - Chapaton RTB Disinfection Improvements

4,141.08

Work Description:

Project management and coordination of design activities, bidding, staff and team meetings. Prepared monthly invoice and progress report. Provided bidding assistance and issuance of addendums. Received bids at Wade Trim office on September 3, 2020. Reviewed submitted contractor bids and provided letter of recommendation. Printed and provided contract books to contractor for execution.



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 9/30/20
4. SET ID 1P201002MA		5. POST DATE

6. VENDOR NAME (Check to be issued to) Watson Marlow Inc.	7. VENDOR NUMBER V72067	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) S1140830	10. Invoice Date 9/30/2020	11. Invoice Amount 98,762.00
---	-----------------------------------	---------------------------	--	--------------------------------------	--

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	93002	93002	WO19083	8 1/2 Mile Relief	Bredel 32 Pump	\$ 70,544.30	GEN		
B	8210072M	93002		WO19083	Martin	Bredel 32 Pump	\$ 28,217.70	GEN		0
C										
D										
E										
F										
G										

23. Total: \$ 98,762.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Pw000087

25. Finance Officer:	BM/mh	30. Drain:	8 1/2 Mile Relief, Martin
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	10/6/2020
28. Managers:		33. Board Date:	10/19/2020
29. Coordinator:		34. Select For Pay Date:	

PW000087

W019083

Invoice



Fluid Technology Group

Invoice address
 Macomb County Public Works
 Attn: Accounts Payable Dept.
 michelle.houvener@macombgov.org
 21777 Dunham Road
 Clinton Township, MI 48036
 United States

Delivery address
 DPWK
 Public Works Office
 Chapaton Pump Station
 23001 9 Mile Road
 Saint Clair Shores, MI 48080
 United States

Remit Payment To:
 Watson Marlow, Inc.
 P.O. Box 536285
 Pittsburgh, PA 15253-5904
 United States

Telephone +1 800-282-8823
 Fax +1 978-658-0041
 orders@wmftg.us
 www.wmftg.com

Cust VAT No. CERTIFICATE ON FILE

Inv. No.	Sales order	Cust PO No.:	Invoice date
S1140830	S132394	PW000087	09/30/2020
Our reference		Cust Account	Page
Sarah Fourtzialas		303717	1 of 3

SO Line	Item number	Description	Estimated ship date	Quantity	Unit	Sales price	Amount	Sales Tax
1.5	14-Bredel32 Config Id:CFG033469	Bredel 32 Pump	09/29/2020	7.00	Each	13,888.00	97,216.00	0.00
		Tariff Code	84138100					
		Country/region of origin	United States					
		Quantity : 7.00 Delivery note No. : USA1-DN150575						
		Quantity : 1.00 Serial / Lot No.: 14-012111						
		Quantity : 1.00 Serial / Lot No.: 14-012112						
		Quantity : 1.00 Serial / Lot No.: 14-012113						
		Quantity : 1.00 Serial / Lot No.: 14-012114						
		Quantity : 1.00 Serial / Lot No.: 14-012115						
		Quantity : 1.00 Serial / Lot No.: 14-012116						
		Quantity : 1.00 Serial / Lot No.: 14-012117						
3.0	28-032075	Pump Element Bredel 32 EPDM	09/29/2020	2.00	Each	575.00	1,150.00	0.00
		Tariff Code	84139100					
		Country/region of origin	Netherlands					
		Quantity : 2.00 Delivery note No. : USA1-DN150575						
		Quantity : 2.00 Serial / Lot No.: 27019						
4.0	28-912143	Hose Lubricant, 5 Gallons	09/29/2020	1.00	Each	396.00	396.00	0.00
		Tariff Code	29054500					
		Country/region of origin	United Kingdom					
		Quantity : 1.00 Delivery note No. : USA1-DN150575						

All quotes, agreements and documentation concerning the sale of our products and/or services to be performed by us, shall be governed by the Watson-Marlow Inc, general conditions of sale. All other conditions are explicitly rejected by us.

Bank name	Citizens Checking Account
Bank account	1134078894
SWIFT	CTZIUS33
A.B.A. ACH	211070175
A.B.A. Wire	011500120

Invoice



Fluid Technology Group

Invoice address
 Macomb County Public Works
 Attn: Accounts Payable Dept.
 michelle.houvener@macombgov.org
 21777 Dunham Road
 Clinton Township, MI 48036
 United States

Delivery address
 DPWK
 Public Works Office
 Chapaton Pump Station
 23001 9 Mile Road
 Saint Clair Shores, MI 48080
 United States

Remit Payment To:
 Watson Marlow, Inc.
 P.O. Box 536285
 Pittsburgh, PA 15253-5904
 United States

Telephone +1 800-282-8823
 Fax +1 978-658-0041
 orders@wmftg.us
 www.wmftg.com

Cust VAT No. CERTIFICATE ON FILE

Inv. No.	Sales order	Cust PO No.:	Invoice date
SI140830	S132394	PW000087	09/30/2020
Our reference		Cust Account	Page
Sarah Fourtzialas		303717	2 of 3

6.0	CUB5B000	Red Lion 8-Digit Preset Counter Display, 115V, NEMA4X	09/29/2020	7.00 Each	0.00	0.00	0.00
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Quantity : 7.00 Delivery note No. : USA1-DN150575

Purchase Order No.: PW000087 must appear on all shipping papers and invoices
 Call (586) 469-5325 with any questions
 Ship Order Complete
 Submittal Point of Contact: kristofer.benda@macombgov.org
 Kristofer Brenda

Also copy Mike Heath: mheath@mattoon-lee.com

Please note that submittal and approval is needed so we are treating this order as a project.
 Shipped 09/29/2020
 Via ABF Freight
 Tracking: 335 729 236

Commodity code	Quantity	Net weight	Delivered value
84138100	7.00	0.07	97,216.00
84139100	2.00	6.00	1,150.00
29054500	1.00	24.00	396.00

All quotes, agreements and documentation concerning the sale of our products and/or services to be performed by us, shall be governed by the Watson-Marlow Inc, general conditions of sale. All other conditions are explicitly rejected by us.

Bank name	Citizens Checking Account
Bank account	1134078894
SWIFT	CTZIUS33
A.B.A. ACH	211070175
A.B.A. Wire	011500120

Invoice



Fluid Technology Group

Invoice address
 Macomb County Public Works
 Attn: Accounts Payable Dept.
 michelle.houvener@macombgov.org
 21777 Dunham Road
 Clinton Township, MI 48036
 United States

Delivery address
 DPWK
 Public Works Office
 Chapaton Pump Station
 23001 9 Mile Road
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Remit Payment To:
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Telephone +1 800-282-8823
 Fax +1 978-658-0041
 orders@wmftg.us
 www.wmftg.com

Cust VAT No. CERTIFICATE ON FILE

Inv. No. SI140830	Sales order S132394	Cust PO No.: PW000087	Invoice date 09/30/2020
Our reference Sarah Fourtzialas		Cust Account 303717	Page 3 of 3

Sales tax code	Amount	Percent cash discount	Amount origin	Quantity	Sales tax amount	Description
MI-00	0.00	0.00	98,762.00	0.00	0.00	

Payment terms	30 Days
Due date	10/30/2020
Delivery terms	FOB Origin Prepaid and Included
Delivery mode	Best Way

Currency	Sales subtotal amount	Charges	Sales Tax	Total
USD	98,762.00	0.00	0.00	98,762.00

All quotes, agreements and documentation concerning the sale of our products and/or services to be performed by us, shall be governed by the Watson-Marlow Inc, general conditions of sale. All other conditions are explicitly rejected by us.

Bank name Citizens Checking Account
 Bank account 1134078894
 SWIFT CTZIUS33
 A.B.A. ACH 211070175
 A.B.A. Wire 011500120



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 9/30/20
4. SET ID VP201002MA		
5. POST DATE		

6. VENDOR NAME (Check to be issued to) Wonderware North	7. VENDOR NUMBER V65315	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 86236	10. Invoice Date 9/17/2020	11. Invoice Amount 18,309.00
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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	8210166M	80152	80152	WO19011	MIDDD	WONDERWARE RENEWAL	\$ 7,872.88	GEN		
B	8210166M	80152	80152	WO19011	MIDDD (OMID)	WONDERWARE RENEWAL	\$ 1,281.63	GEN		0
C	8210017M	80152	80152	WO19011	8 1/2 MILE RELIEF	WONDERWARE RENEWAL	\$ 6,865.87	GEN		0
D	8210072M	80152	80152	WO19011	MARTIN	WONDERWARE RENEWAL	\$ 1,373.17	GEN		0
E	8210181M	80152	80152	WO19011	SEMCWWDSD	WONDERWARE RENEWAL	\$ 915.45	GEN		0
F										
G										

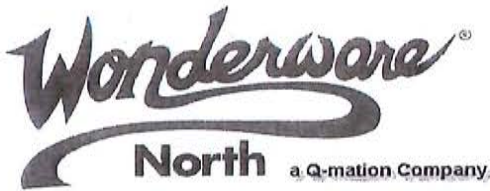
23. Total: \$ 18,309.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

PW000096

25. Finance Officer: _____
 26. Chief Deputy: _____
 27. Engineers: _____
 28. Managers: _____
 29. Coordinator: _____

30. Drain: MULTIPLE
 31. Project Balance: N/A
 32. Staff Date: 10/6/2020
 33. Board Date: 10/19/2020
 34. Select For Pay Date: _____



INVOICE

Invoice ID: 86236
 Date: 9/17/2020
 Order No: 91743
 F.O.B: Horsham, PA
 Packlist ID: 74709

425 Caredean Drive
 Horsham, PA 19044
 215-675-5800
www.wonderwarenorth.com

Sold To
 MACOMB COUNTY PUBLIC WORKS
 ATTN: ACCOUNTS PAYABLE
 21777 DUNHAM ROAD
 CLINTON TOWNSHIP, MI 48036
 USA

Ship To
 MACOMB COUNTY PUBLIC WORKS
 23001 NINE MILE ROAD
 ST CLAIR SHORES, MI 48080
 USA

CUSTOMER ID		CUSTOMER PO		PAYMENT TERMS		FREIGHT TERMS	
MACOMB COUNTY		PW000096		Net 30		Freight: Billed	
SALES REP ID		SHIPPING METHOD		SHIP DATE		INVOICE DUE DATE	
GENES		UPS 1ZX167140343950303		9/17/2020		10/17/2020	
QUANTITY			PART	DESCRIPTION	T X	UNIT PRICE	EXTENDED PRICE
ORD	SHP	BCK					
1.00	1.00	0.00	Q-SUPPORT	WW CUSTOMER FIRST AGREEMENT RENEWAL CFA# 100134		\$18,309.00	\$18,309.00

ORDER SPECIFICATIONS

SUB TOTAL: \$18,309.00 (USD)

TOTAL AMOUNT DUE: \$18,309.00 (USD)

PLEASE REFERENCE THIS INVOICE NUMBER ON YOUR CHECK AND REMIT TO:

Q-mation, Inc or Wonderware North
 425 Caredean Drive
 Horsham, PA 19044

FOR SPEED AND CONVENIENCE, PAYMENT MAY BE WIRED TO THE FOLLOWING ACCOUNT:

Bank Name: Wells Fargo
 1977 Norristown Road
 Maple Glen, PA 19002
 Account Name: Q-mation, Inc
 Account# 1559821747
 Routing: 121000248
 ABA (ACH): 031000503 / Swift: WFBIUS6S

WWN is not authorized or obligated to collect sales tax outside the state of Pennsylvania. Please note that the customer named above is solely responsible to timely remit the tax to the proper taxing authority.

Budget to Actual
8.5 Mile Relief
As of Sept 30, 2020 = 100%

DESCRIPTION	2020 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	80,000		177,886	(97,886)	222.4%
Canal Expansion(SMSD and Macomb County)			3,000,000	(3,000,000)	0.0%
Other Revenue	5,000		5,068	(68)	101.4%
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		120,673	2,977,377	3.9%
Rental Fee	16,464		10,976	5,488	66.7%
Total Revenue Accounts	7,479,282	-	8,332,483	(853,201)	111.4%
EXPENSE ACCOUNTS					
Application/Permit Fee	3,000		6,000	(3,000)	200.0%
Dues, Training, Conf, Subs.	5,750		5,656	94	98.4%
Engineering					
As needed Engineering	75,000		36,019	38,981	48.0%
Chapaton Improvements-Office Space	500,000		83,091	416,909	16.6%
Disinfection system upgrade (Design and Construction)	1,000,000		167,248	832,752	16.7%
Basin Structural Integrity Study**	-		14,098	(14,098)	0.0%
Phase 1 TRC Basin Equipment**	-		27,762	(27,762)	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			250,000	0.0%
Basin Expansion Design	775,000		698,585	76,415	90.1%
In-System Storage Design(Gates on 8.5 Tunnel)	1,200,000		766,952	433,048	63.9%
9 Mile & 8 1/2 Mile Rehab	75,000		47,717	27,283	63.6%
New Equipment	23,500		12,541	10,959	53.4%
Office Supplies	1,000		362	638	36.2%
Operating Supplies	74,600		50,207	24,393	67.3%
Other Professional Svcs	46,800		28,810	17,990	61.6%
Personnel Services	979,953		641,677	338,276	65.5%
Repair & Maintenance	148,500		138,700	9,800	93.4%
Pumping and screening improvements	1,150,000		896,214	253,786	77.9%
SRF Replacement Reserve	259,215		259,215	-	100.0%
Projected 9/30/2020 Expenses					
Scada System	243,839		103,735	140,104	42.5%
Utilities	273,125		268,895	4,230	98.5%
Total Expense Accounts	7,479,282	-	4,578,634	3,200,648	61.2%

	O&M Balance 9/30/2019	O&M	Est Total 9/30/2020
Cash - Operating	8,846,231	3,753,849	12,600,080
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		8,332,483	8,332,483
Expenditures		4,578,634	4,578,634
			0
Equity*	8,846,231		12,600,080

Estimated Detail of 2020 Equity*

Disinfection system upgrade (Design and Construction)	832,752	Pumping and screening Improve	319,594
Chapaton Improvements-Office Space/HVAC	736,909	SCADA Reserve	84,385
Chapaton Improvements-Lab Relocation	250,000	Capital Reserve	1,154,132
LSCWWI 04B Transfer	738,112	PLC Replacements at Chapaton East	40,000
Project Contribution from Macomb Cty	2,000,000	As Needed Engineering	88,981
In System Contribution from SEMSD	1,000,000	Design 9 Mile Bypass	27,283
Expansion Contribution From State	975,109	Flushing Study	75,000
In-System Storage Design/Const Admin/Const	2,250,000	Pickup Truck	19,500
SRF Replacement Reserve	2,073,720		

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