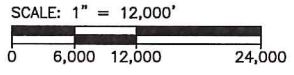
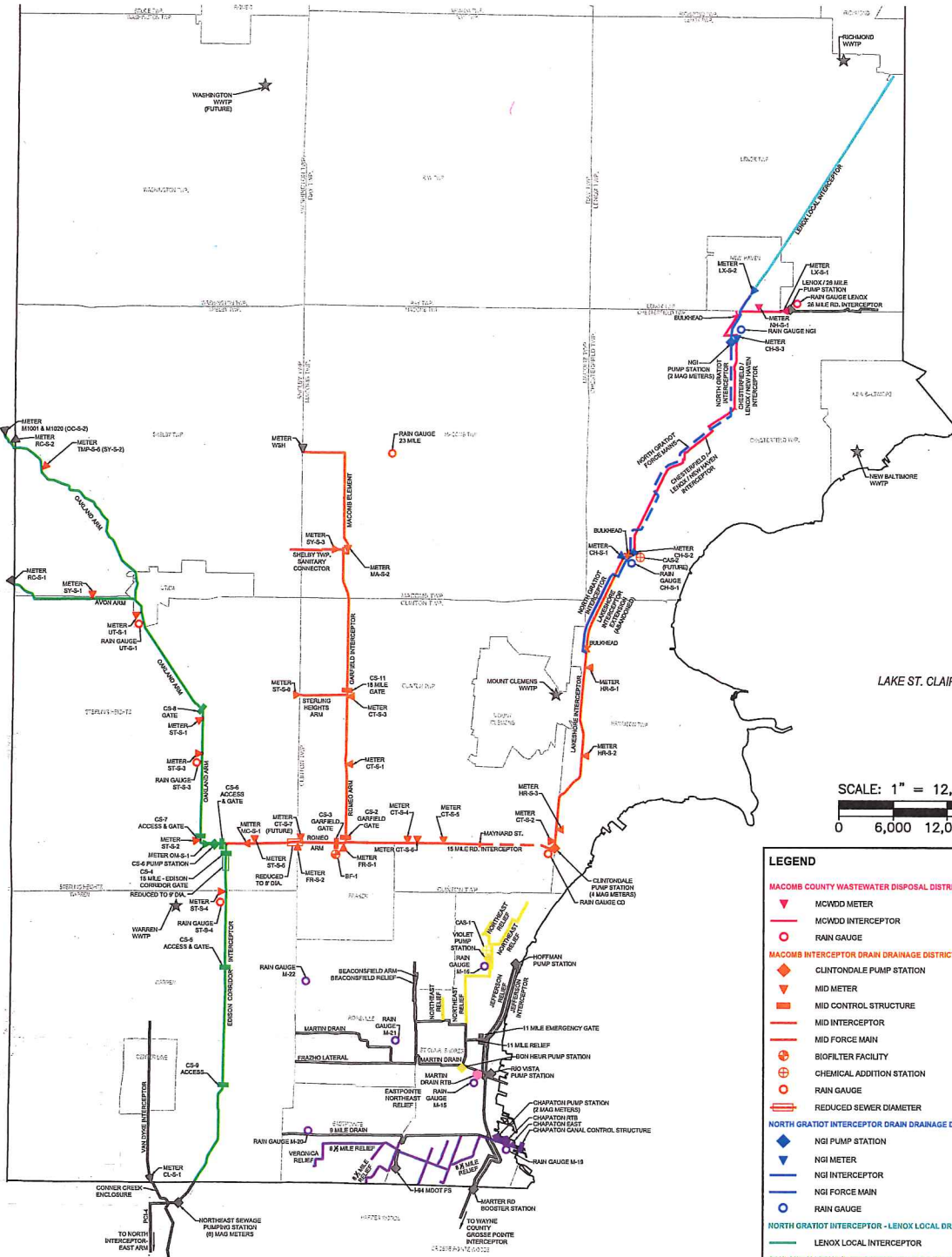


Miller
Smith
Klinefelt

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
MARCH 13, 2017
10:00 A.M.
AGENDA

1. Call of meeting to order and roll call
2. Approval of Agenda for March 13, 2017
3. Approval of Minutes for February 13, 2017
4. Public participation
5. Consideration for approval of invoices (see attached)
6. Adjourn

MACOMB COUNTY WASTEWATER SYSTEMS



LEGEND

- MACOMB COUNTY WASTEWATER DISPOSAL DISTRICT (MCWDD)**
 - ▼ MCWDD METER
 - MCWDD INTERCEPTOR
 - RAIN GAUGE
- MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDDD)**
 - ◆ CLINTONDALE PUMP STATION
 - ◇ MID METER
 - ▬ MID CONTROL STRUCTURE
 - MID INTERCEPTOR
 - MID FORCE MAIN
 - ⊕ BIOFILTER FACILITY
 - ⊕ CHEMICAL ADDITION STATION
 - RAIN GAUGE
 - ▬ REDUCED SEWER DIAMETER
- NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGIDDD)**
 - ◆ NGI PUMP STATION
 - ▼ NGI METER
 - NGI INTERCEPTOR
 - NGI FORCE MAIN
 - RAIN GAUGE
- NORTH GRATIOT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (NGILLDD)**
 - LENOX LOCAL INTERCEPTOR
- OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDDD)**
 - ◆ CS-6 PUMP STATION
 - ◇ OMID METER
 - ▬ OMID CONTROL STRUCTURE
 - OMID INTERCEPTOR
 - ▬ REDUCED SEWER DIAMETER
- 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT**
 - ◆ CHAPATON WEST PUMP STATION
 - ◆ CHAPATON RETENTION TREATMENT BASIN
 - ◆ CHAPATON CANAL CONTROL GATE
 - 1/2 MILE INTERCEPTOR
 - RAIN GAUGE
- SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM (SEMWCDD)**
 - ◆ SEMWCDD PUMP STATION
 - ⊕ CHEMICAL ADDITION STATION
 - SEMWCDD INTERCEPTOR
- MARTIN SANITARY DIVERSION DRAINAGE DISTRICT (MSDD)**
 - ◆ MARTIN DRAIN RETENTION TREATMENT BASIN
- OTHER SYSTEMS**
 - ◆ PUMP STATION
 - ▼ METER
 - ★ WWTP
 - INTERCEPTOR

Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on February 13, 2017, at 10:00 A.M.

PRESENT: Candice S. Miller, Chairman
Robert Smith, Member
Veronica Klinefelt, Member

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Keith Graboske, Chief Engineer, Dan Heaton, Public Relations Manager, Anthony Forlini, Operations Manager, Evans Bantios, Engineer II, Bruce Manning, Acting Financial Manager, Barbara Delecke, Administrative Services, Macomb County Public Works; Mary Bednar, Director of Public Services, Clinton Township; Ron Trombly, Supervisor, Cam Trombly, DPW Director, Lenox Township; Jason Castol, P.E., Sterling Heights; Sermed Saif, Tri-County Engineering; Benjamin Aloia, Annemarie Lepore, Aloia & Associates; Don Gardner, Macomb Daily; Christina Hall, Detroit Free Press;

The meeting was called to order by the Chair, Candice Miller. The meeting was opened to public participation, then closed, there being no comments from the public.

Past board members not present to approve Minutes. Minutes of the meeting of December 13, 2016 were presented and approved on a motion by Mr. Smith, supported by Ms. Klinefelt and unanimously carried.


The Chair presented the invoices to the board for review and approval.

Motion was made by Mr. Smith, supported by Ms. Klinefelt to approve the invoices as presented.

Ayes: Smith, Klinefelt, Miller
Nays: None

Motion approved.

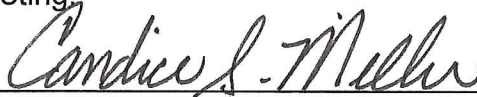
The meeting was adjourned on a motion by Mr. Smith, seconded by Ms. Klinefelt, and unanimously approved.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on February 13, 2017, the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

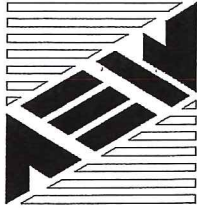
DATED: 2/15/17

8603.bd

8 ½ MILE RELIEF DRAIN – MARCH 13, 2017

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Available Project Balance</u>	
8 ½ 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	Anderson, Eckstein & Westrick, Inc.	\$ 716.75	Invoice #0113134 – Contract administration, certified payrolls Engineering Services – 1/9/17 – 2/5/17	Sewer Structural Rehab		
	SRF 5579-01	Manning	Bank of New York Mellon	\$ 35,375.00	SRF Debt Service Payment	Pumps – Project complete		
	SRF 5306-01	Manning	Bank of New York Mellon	\$ 11,607.24	Debt Service Payment	Pumps – Project complete		
	SRF 5393-01	Manning	Bank of New York Mellon	\$ 24,254.31	Debt Service Payment	Solar panels – Project complete		
	SRF 5460-01	Manning	Bank of New York Mellon	\$ 3,967.14	Debt Service Payment	Sewer Structural Rehab		
	SRF 5579-01	Astorino	Cintas Fire	\$ 1,365.52	Invoice #OD26545604 – 1/27/17	Annual fire extinguisher inspections		
		Astorino	DTE Energy	\$ 15,378.85	Monthly Electrical –Stormwater pumps			
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 41,616.40	Invoice #359848 – SAW Grant 1173-01 Engineering Services – ending 10/21/16	Inventory of Chapaton assets/repair/replace/maintenance		
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 41,556.70	Invoice #364204 – SAW Grant 1173-01 Engineering Services – ending 1/27/17	Inventory of Chapaton assets/repair/replace/maintenance		
		Astorino	JGM Valve	\$ 927.87	Invoice #17-11303 – 2/16/17 A-drive assembly	Repair Gate #3 Control Structure at Chapaton RTB		
		Astorino	Kone	\$ 592.01	Invoice #949535556 – 2/1/17 Quarterly Maintenance on elevator	Maintenance		
		Astorino	Martin Control Services	\$ 2,600.00	Invoice #9994 – Chapaton Monitoring			
	TOTAL			\$ 179,957.79				

RECEIVED
 FEB 24 2017
 BY: mlh



ANDERSON, ECKSTEIN AND WESTRICK, INC.
 CIVIL ENGINEERS • SURVEYORS • ARCHITECTS
 51301 Schoenherr Road, Shelby Township, Michigan 48315
 Phone (586) 726-1234 Fax (586) 726-8780

Invoice

February 21, 2017
 Project No: 0211-0134-D
 Invoice No: 0113134

MACOMB COUNTY PUBLIC WORKS OFFICE
 ATTN: VINCENT J. ASTORINO
 21777 DUNHAM ROAD
 CLINTON TWP, MI 48036

Project 0211-0134-D 8 1/2 MILE RELIEF DRAIN SEWER STRUCTURE

Professional Services from January 09, 2017 to February 05, 2017

Phase 02 CONTRACT ADMINISTRATION

Professional Personnel

	Hours	Rate	Amount
CONTRACT ADMINISTRATION			
TEAM LEADER	5.00	111.50	557.50
ENGINEERING AIDE III	1.00	92.00	92.00
Totals	6.00		649.50
Total Labor			649.50
Total this Phase			\$649.50

Phase 05 CERTIFIED PAYROLLS

Professional Personnel

	Hours	Rate	Amount
CONTRACT ADMINISTRATION			
LICENSED ENG/SUR/ARC	.50	134.50	67.25
Totals	.50		67.25
Total Labor			67.25
Total this Phase			\$67.25

Total this Invoice \$716.75 *✓ pay*

Outstanding Invoices

Number	Date	Balance
0112415	12/8/2016	1,425.00
0112933	1/26/2017	1,189.15
Total		2,614.15

Chg: 8 1/2 Mile *SRF 5579-01*

Date	2-24-17
Chief Deputy	<i>BO</i>
Engineer(s)	<i>VA</i>
Manager(s)	
Coordinator(s)	<i>BO</i>
Finance Officer	<i>BO</i>

Staff 3-7-17

Please include the project number and invoice number on your check.

Board 3-13-17

Michigan Finance Authority
State Revolving Funds

Mr. Bruce Manning,
8 1/2 Mile Relief Drain Drainage District
21777 Dunham Road
Clinton Township, MI 48036
Phone: (586) 307-8279 Ext: Fax: (586) 469-5933
Email: bruce.manning@macombgov.org

Date: 2-16-17
Chief Deputy: AB
Engineer(s):
Manager(s):
Coordinator(s):
Finance Officer: ATM

MtH
Crs: 8 1/2 Mile
INVOICE CC: 000005

PA035054

Due Date	Project Number	ID	Loan Commitment	Principal	Interest	Total
03/27/2017	5306-01/Final	CW	\$4,025,000.00	\$0.00	\$35,375.00	\$35,375.00
03/27/2017	5393-01*/Final	CW	\$1,246,579.00	\$0.00	\$11,607.24	\$11,607.24
03/27/2017	5460-01*/Final	CW	\$418,833.00	\$20,000.00	\$4,254.31	\$24,254.31
03/27/2017	5579-01	CW	\$445,000.00	\$0.00	\$3,967.14	\$3,967.14
					TOTAL AMOUNT DUE:	\$75,203.69

**If your total amount due includes; CW, DW, and/or SWQF loans, you no longer need send separate payments*

If you have any questions please contact Nichole Dorr at 517-335-0525

If you have changes to the contact/billing information please Email those changes to dorrn@michigan.gov.

Below please find three methods of payment to the Michigan Finance Authority

Preferred Method of Payment

Payment via Federal Wire Transfer for ALL Loan Types:

WIRE transfers MUST be initiated by 10:00 a.m. on

03/27/2017 and sent to:

The Bank of New York Mellon, N.A.

ABA: 021-000-018

A/C: 3919348400

Reference: 5708-MFA

Please note, the Reference information must be included on the wire transfer.

Payment via ACH Transfer for ALL Loan Types:

To allow for processing time ACH transfers MUST

be initiated by 03/23/2017 and sent to:

The Bank of New York Mellon, N.A.

ABA: 021-000-018

A/C: 8900626003

Reference: 5708-MFA

Please note, the Reference information must be included on the ACH transfer.

Payment By Check For ALL Loan Types

To allow for processing time checks must be

RECEIVED by 03/20/2017.

For proper credit please include a copy of this

invoice and note the reference: 5708-MFA

on the check. Please mail your payment to:

The Bank of New York Mellon, N.A.

ATTN: Pooled Finance Unit - Robert Ferenchi

10161 Centurion Parkway N.

Jacksonville, FL 32256

Staff 3-7-17
Board 3-13-17

**Michigan Finance Authority
State Revolving Funds**

Mr. Bruce Manning,
8 1/2 Mile Relief Drain Drainage District
21777 Dunham Road
Clinton Township, MI 48036
Phone: (586) 307-8279 Ext: Fax: (586) 469-5933
Email: bruce.manning@macombgov.org

2.16.17
Center Deputy AB
Engineer(s)
Manager(s)
Coordinator(s) BD
Finance Officer *[Signature]*

INVOICE
Qty: 8 1/2 Mile
cc: 099006
PAD 35053

Due Date	Project Number	ID	Loan Commitment	Principal	Interest	Total
03/27/2017	5306-01/Final	CW	\$4,025,000.00	\$0.00	\$35,375.00	\$35,375.00
03/27/2017	5393-01*/Final	CW	\$1,246,579.00	\$0.00	\$11,607.24	\$11,607.24
03/27/2017	5460-01*/Final	CW	\$418,833.00	\$20,000.00	\$4,254.31	\$24,254.31
03/27/2017	5579-01	CW	\$445,000.00	\$0.00	\$3,967.14	\$3,967.14
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For proper credit please include a copy of this invoice and note the reference: 5708-MFA on the check. Please mail your payment to:
The Bank of New York Mellon, N.A.
ATTN: Pooled Finance Unit - Robert Ferencchi
10161 Centurion Parkway N.
Jacksonville, FL 32256

*Staff 3.7.17
Dorr 3.12.17*

Michigan Finance Authority State Revolving Funds

Mr. Bruce Manning,
8 1/2 Mile Relief Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036
 Phone: (586) 307-8279 Ext: Fax: (586) 469-5933
 Email: bruce.manning@macombgov.org

2.16.17
 Chief Deputy
 Engineer(s)
 Manager(s)
 Coordinator(s) **BD**
 Finance Officer **NAM**

INVOICE
 Chg: 8 1/2 Mile
 cc: 00007
 PA035052

Project Number	Due Date	Loan Commitment	Principal	Interest	Total
5306-01/Final	03/27/2017	\$4,025,000.00	\$0.00	\$35,375.00	\$35,375.00
5393-01*/Final	03/27/2017	\$1,246,579.00	\$0.00	\$11,607.24	\$11,607.24
5460-01*/Final	03/27/2017	\$418,833.00	\$20,000.00	\$4,254.31	\$24,254.31
5579-01	03/27/2017	\$445,000.00	\$0.00	\$3,967.14	\$3,967.14
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 ATTN: Pooled Finance Unit - Robert Ferenchi
 10161 Centurion Parkway N.
 Jacksonville, FL 32256

Please note, the Reference information must be included on the wire transfer.

Staff J.T.-17
 Apprd. 3.13.17

Michigan Finance Authority State Revolving Funds

MH

Mr. Bruce Manning,
 8 1/2 Mile Relief Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036
 Phone: (586) 307-8279 Ext: Fax: (586) 469-5933
 Email: bruce.manning@macombgov.org

2.16.17
 Chief Deputy AP
 Engineer(s) _____
 Manager(s) _____
 Coordinator(s) BP
 Finance Officer MM

INVOICE

Chg: 8 1/2 Mile
 CC: 00025
 PA-035051

Due Date	Project Number	ID	Loan Commitment	Principal	Interest	Total
03/27/2017	5306-01/Final	CW	\$4,025,000.00	\$0.00	\$35,375.00	\$35,375.00
03/27/2017	5393-01*/Final	CW	\$1,246,579.00	\$0.00	\$11,607.24	\$11,607.24
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03/27/2017	5579-01	CW	\$445,000.00	\$0.00	\$3,967.14	\$3,967.14
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 To allow for processing time checks must be **RECEIVED by 03/20/2017**.
 For proper credit please include a copy of this invoice and note the reference: 5708-MFA on the check. Please mail your payment to:
 The Bank of New York Mellon, N.A.

Please note, the Reference information must be included on the wire transfer.

Please note, the Reference information must be included on the ACH transfer.

ATTN: Pooled Finance Unit - Robert Ferencchi
 10161 Centurion Parkway N.
 Jacksonville, FL 32256

Staff 3.27.17
 Hand 3.13.17



*** INVOICE CUSTOMER COPY ***

Location : CINTAS FIRE PROTECTION

FEB 21 2017
MH

Invoice # : 0D26545604 Inv Date : 1/27/2017
Customer : 440 Loc : D26
Type : CHG-S Route : 03
PO Number : Acct # : 00440
WO Number : Acct Zip : 48080
Service Visit : 4077628

Remit to:
CINTAS FIRE 636525
P.O. BOX 636525
CINCINNATI, OH 452636525
(248) 817-3800

Chg: 8 1/2 Mile Rly

Bill to:
MACOMB COUNTY / CHAPATON
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080

Serviced:
MACOMB COUNTY / CHAPATON
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080

2-21-17

Chief Deputy	CB
Engineer(s)	VA
Manager(s)	
Coordinator(s)	BD
Finance Officer	MM

Item	Qty	Description	Unit Price	Net Amount	Tx
CO210	4	RECHARGE, CO2 10#	30.40	121.60	N
CONT	27	CONTINUITY TEST, CO2 HOSE	4.65	125.55	N
DC10	1	RECHARGE, 10# DRY CHEMICAL	30.40	30.40	N
DC5	5	RECHARGE, 5# DRY CHEMICAL	14.90	74.50	N
EEOR	12	O RING ASSEMBLY	5.19	62.28	Y
EEVSC	12	VERIFICATION SVC COLLAR	3.04	36.48	Y
EEVSTEM	8	VALVE STEM ASSEMBLY	13.30	106.40	Y
H2O2	2	RECHARGE, H2O 2.5 GAL	24.99	49.98	N
HST	7	HYDROTEST	21.99	153.93	N
HSTCO2	4	HYDROTEST, CO2 PORTABLE	31.35	125.40	N
IN	64	FIRE EXTINGUISHER INSPECTION, FLAT RAT	6.50	416.00	N
SC	1	SERVICE CHARGE	63.00	63.00	N

PA035073 Unit Price 77500

SUB-TOTAL : 1,365.52
TAX : 12.31
TOTAL : 1,377.83

*Staff 3-7-17
Board 3-13-17*

By signing this document, I hereby represent I have the authority to enter into this Contract on behalf of my employer. The Customer's Authorized Representative, by his/her signature, acknowledges that all work has been completed and this work is subject to the Terms and Conditions indicated on the reverse hereof.



Payment Coupon

Account Number	0000-2172-5
Due Date:	February 13, 2017
Total Due:	\$15,378.85

MACOMB COUNTY
 MACOMB COUNTY DRAIN COMM
 PO BOX 806
 MT CLEMENS, MI 48046-0806

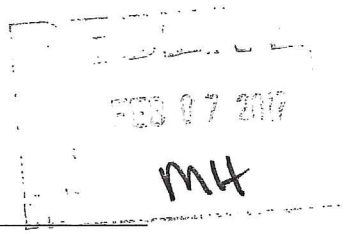


Mail Payments to:
 DTE Energy
 P.O. Box 630795
 Cincinnati, OH 45263-0795

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
 PO Box 806
 Mt Clemens, MI 48046



Account Number	0000-2172-5
----------------	-------------

DTE-Energy Federal ID No.	38-3217752
---------------------------	------------

Programs you are enrolled in:

How to contact us:

Power Outage	See Detail Charges
Billing Inquiry	1-734-397-4309
Analyst Code	R6

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

gd
 2-13-17
 CR# 7709

Chg: 8 1/2 Mile Rly

2-7-17

Chief Deputy AB

Engineer(s) UA

Manager(s) _____

Coordinator(s) SD

Finance Officer BTM

Staff 2-21-17
 Board 3-13-17

PA 034953 92300





Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

OCTOBER 31, 2016
INVOICE SUMMARY
ACCOUNT NO: 120985

INVOICE NO: 359848

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

INVOICE SUMMARY THROUGH 10/21/2016. DETAILED CHARGES ARE ATTACHED.

<u>PROJECT</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
G130620CIP	MACOMB CO PW/CHAPATON SAW CIP	\$3,586.90
G130620DWG	MACOMB CO PW/CHAPATON SAW DWG	35,545.80
G130620GI	MACOMB CO PW/CHAPATON SAW GI	2,483.70
GRAND TOTAL		<u>\$41,616.40</u>

Chg: 8 1/2 M de Rly

Date	<u>11.2.16</u>
Chief Deputy	<u>AS</u>
Engineer(s)	<u>VA</u>
Manager(s)	_____
Coordinator(s)	<u>BD</u>
Finance Officer	<u>MM</u>

SAW1173-01

P 17034301 80300

Staff: 11-16-16
Board 2.13.17



Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

OCTOBER 31, 2016
G130620CIP MES
ACCOUNT NO: 120985

INVOICE NO: 359848

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW CIP

THIS INVOICE IS FOR SERVICES RENDERED
FOR THE BILLING PERIOD THROUGH 10/21/2016

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	13.00	\$169.00	\$2,197.00
SENIOR ENGINEER	9.50	111.00	1,054.50
SENIOR TECHNICIAN	3.00	95.00	285.00
			<u>3,536.50</u>
 <u>REIMBURSABLE EXPENSES:</u>			
MILEAGE			\$50.40
		TOTAL	<u><u>\$3,586.90</u></u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

OCTOBER 31, 2016
G130620GI MES
ACCOUNT NO: 120985

INVOICE NO: 359848

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW GI

THIS INVOICE IS FOR SERVICES RENDERED
FOR THE BILLING PERIOD THROUGH 10/21/2016

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
PRINCIPAL	4.00	\$217.00	\$868.00
SENIOR ENGINEER	12.50	120.00	1,500.00
ENGINEER	0.50	104.00	52.00
			<u>2,420.00</u>
 <u>REIMBURSABLE EXPENSES:</u>			
MILEAGE			\$63.70
		TOTAL	<u><u>\$2,483.70</u></u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829

MEMO

TO: Mr. Vince Astorino - Macomb County Public Works Commissioner

FROM: Maria E. Sedki, PE

DATE: November 1, 2016

PROJECT NO.: G130620

RE: 8 ½ Mile Relief Drain SAW Invoice

The following is a summary of work performed through October 21, 2016

Task G130620PM: Project Management

Work during this period included:

- Overall Project Management and Previous Month Invoice and Memo

Task G130620CIP: Criticality and CIP Report

Work during this period included:

- Worked on Finalized P&ID Diagrams
- Began review of SCADA information from previous rain events to determine patterns and start working on weir equation.

Task G130620DWG: Record Drawings

Work during this period included:

- Finished site survey for topography of facility.
- Continued developing models for facility record drawings.
- Finalized Electrical One-Line Diagrams.

Task G130620GI: Green Infrastructure

Work during this period included:

- Requested supplemental information from communities.
- Continued evaluating green infrastructure alternatives in the hydraulic model.

Task G130620EN: Energy Audit

None

Task G130620MN: O&M Manuals

None

Task G130620SP: Maintenance and Staffing Program

None



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OHIO Cincinnati

Headquarters

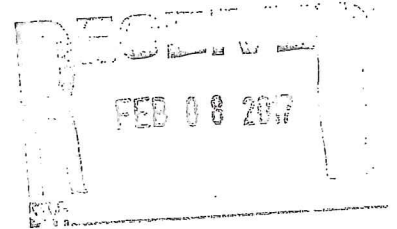
1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
INVOICE SUMMARY
ACCOUNT NO: 120985

INVOICE NO: 364204



MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

INVOICE SUMMARY THROUGH 01/27/2017. DETAILED CHARGES ARE ATTACHED.

<u>PROJECT</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
G130620CIP	MACOMB CO PW/CHAPATON SAW CIP	\$10,403.00
G130620DP	MACOMB CO PW/CHAPATON SAW	2,482.50
G130620DWG	MACOMB CO PW/CHAPATON SAW DWG	10,099.50
G130620GI	MACOMB CO PW/CHAPATON SAW GI	3,886.00
G130620MN	MACOMB CO PW/CHAPATON SAW MN	14,349.70
G130620PM	MACOMB CO PW/CHAPATON SAW-PM	336.00
GRAND TOTAL		<u>\$41,556.70</u>

Chg: 8 1/2 M. Kelly

Date 2.8.17
 Chief Deputy AB
 Engineer(s) UA
 Manager(s) _____
 Coordinator(s) BO
 Finance Officer MM

SAW 1173-01

PA034962 80300

Staff 2-21-17
Board 3-13-17



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MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
G130620CIP MES
ACCOUNT NO: 120985

INVOICE NO: 364204

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW CIP

THIS INVOICE IS FOR SERVICES RENDERED
FOR THE BILLING PERIOD THROUGH 01/27/2017

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	32.00	\$169.00	\$5,408.00
SENIOR ENGINEER	6.00	129.00	774.00
SENIOR ENGINEER	3.00	120.00	360.00
ENGINEER	27.00	104.00	2,808.00
STAFF ENGINEER	12.00	79.00	948.00
PRODUCTION SUPPORT	1.50	70.00	105.00
			10,403.00
		TOTAL	\$10,403.00

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



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MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
G130620DP MES
ACCOUNT NO: 120985

INVOICE NO: 364204

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW
RTB DISCHARGE PROTOCOL

THIS INVOICE IS FOR SERVICES RENDERED
FOR THE BILLING PERIOD THROUGH 01/27/2017

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	7.50	\$169.00	\$1,267.50
ASSOCIATE	9.00	135.00	1,215.00
			<u>2,482.50</u>
		TOTAL	<u><u>\$2,482.50</u></u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



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OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

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Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
G130620DWG MES
ACCOUNT NO: 120985

INVOICE NO: 364204

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW DWG
SYSTEM DRAWINGS

THIS INVOICE IS FOR SERVICES RENDERED
FOR THE BILLING PERIOD THROUGH 01/27/2017

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
PRINCIPAL	4.00	\$217.00	\$868.00
ASSOCIATE	5.00	169.00	845.00
SENIOR ENGINEER	6.00	164.00	984.00
SENIOR ENGINEER	2.50	138.00	345.00
ASSOCIATE	6.50	129.00	838.50
SENIOR ENGINEER	0.50	120.00	60.00
SENIOR TECHNICIAN	10.00	95.00	950.00
STAFF ENGINEER	15.00	87.00	1,305.00
STAFF TECHNICIAN	12.00	87.00	1,044.00
TECHNICIAN	20.00	87.00	1,740.00
STAFF ARCHITECT	16.00	70.00	1,120.00
			10,099.50
		TOTAL	\$10,099.50

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



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MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

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Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
G130620GI MES
ACCOUNT NO: 120985

INVOICE NO: 364204

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW GI

THIS INVOICE IS FOR SERVICES RENDERED
FOR THE BILLING PERIOD THROUGH 01/27/2017

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	0.50	\$169.00	\$84.50
SENIOR ENGINEER	14.00	120.00	1,680.00
ENGINEER	18.50	104.00	1,924.00
STAFF ENGINEERING SPECIALIST	2.50	79.00	197.50
			<u>3,886.00</u>
		TOTAL	<u><u>\$3,886.00</u></u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



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Federal I.D. No. 38-1841857 | Incorporated

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

FEBRUARY 6, 2017
G130620MN MES
ACCOUNT NO: 120985

INVOICE NO: 364204

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW MN

THIS INVOICE IS FOR THE BILLING PERIOD THROUGH 01/27/2017
O&M MANUAL DEVELOPMENT TASK

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	4.00	\$169.00	\$676.00
SENIOR ENGINEER	88.50	135.00	11,947.50
ENGINEER	14.00	120.00	1,680.00
			<u>14,303.50</u>
 <u>REIMBURSABLE EXPENSES:</u>			
MILEAGE			\$46.20
		<u>TOTAL</u>	<u>\$14,349.70</u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



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Federal I.D. No. 38-1841857 | Incorporated

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OHIO Cincinnati

Headquarters

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p 616.575.3824 | f 616.464.3994

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Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
G130620PM MES
ACCOUNT NO: 120985

INVOICE NO: 364204

MR JASON MATTEO PE
OFFICE OF THE MACOMB COUNTY PUBLIC
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/CHAPATON SAW-PM

THIS INVOICE IS FOR THE BILLING PERIOD THROUGH 01/27/2017
WORK INCLUDED ATTENDING SEVERAL MEETINGS ON SOFTWARE AND
OVERALL PROGRAM MANAGEMENT AND PREPARING INFO ON NEEDED
SYSTEM STORAGE

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	1.50	\$169.00	\$253.50
ENGINEERING SPECIALIST	0.50	95.00	47.50
PRODUCTION SUPPORT	0.50	70.00	35.00
			<u>336.00</u>
		<u>TOTAL</u>	<u>\$336.00</u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829

MEMO

TO: Mr. Vince Astorino - Macomb County Public Works Commissioner

FROM: Maria E. Sedki, PE

DATE: February 6, 2017

PROJECT NO.: G130620

RE: 8 ½ Mile Relief Drain SAW Invoice

The following is a summary of work performed through January 27, 2017

Task G130620PM: Project Management

Work during this period included:

- Overall Project Management and Previous Month Invoice and Memo

Task G130620CIP: Criticality and CIP Report

Work during this period included:

- Worked on Finalizing P&ID Diagrams
- Finalized Tech Memo for the 9 Mile Bypass Drain Inspection
- Began work on the final CIP Report
- Began work on generating the Standards for County Wide AMP

Task G130620DWG: Record Drawings

Work during this period included:

- Finalized models for facility record drawings.
- Continued developing record drawings of the facility.

Task G130620GI: Green Infrastructure

Work during this period included:

- Continued work on the green infrastructure alternatives

Task G130620EN: Energy Audit

None

Task G130620MN: O&M Manuals

Work during this period included:

- Continued work on developing the O&M Manual

Task G130620SP: Maintenance and Staffing Program

None

Task G130620DP: Discharge Protocol

Work during this period included:

- Continued review of meter data to determine flows in 9 Mile Bypass Drain

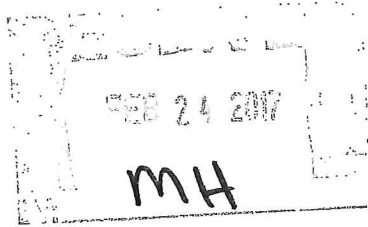
Memo - SAW Invoice
Page 2
February 3, 2017



- Contacted Pump Supplier and began work on updating pump equation
- Compared existing Pump Equation to Meter Data



1155 Welch Road
Suite D
Commerce, MI 48390



INVOICE

Invoice Number: 17-11303
Invoice Date: Feb 16, 2017
Page: 1

Voice: 248-926-6200
Fax: 248-926-6290

EFAX: 248-247-1390

Bill To:
Macomb County Public Works 21777 Dunham Road Clinton Twp, MI 48036

Ship to:
Macomb County Public Parks Chapaton Pump Station 23001 9 Mile Rd St. Clair Shores, MI 48080

Customer ID	Customer PO	Payment Terms	
mac019	17-9305	Net 30 Days	
Sales Rep ID	Shipping Method	Ship Date	Due Date
	FedEx	2/15/17	3/18/17

Quantity	Item	Description	Unit Price	Amount
1.00		Z003.324 New A-drive assembly w/machined stem nut Tracking# 602569222944 <i>Chg: 8 1/2 Mile Ref</i> <i>2-24-17</i> <i>AB</i> <i>UA</i> <i>(S)</i> <i>BO</i> <i>Finance Office</i> <i>PA035135 93000</i>	920.00	920.00
Subtotal				920.00
Sales Tax				
Freight				7.87
Total Invoice Amount				927.87
Payment/Credit Applied				
TOTAL				927.87

Check/Credit Memo No:

Staff 3-7-17
Board 3-13-17



Invoice number: 949533556 Invoice Date: 02/01/2017 Customer PO No: KONE Order No: N40092539 Billing Type: YMIO Date work performed: 04/30/2017	Area Office: DETROIT - 190 11864 Belden Ct Livonia MI 48150-1459 Ph: 734-513-6944 Fax: 734-513-6948	KONE Inc., Federal 36 2357423
Bill To: MACOMB COUNTY PUBLIC WORKS 23001 9 MILE RD SAINT CLAIR SHORES MI 48080 USA	Location/Project: VARIOUS LOCATIONS	FEB 21 2017 MH
Payment Terms: Net 10		

This invoice is for maintenance coverage per your agreement with KONE Inc.
 Billing period is 02/01/2017 to 04/30/2017.

Contract# N40092539 CHAPATON RETENTION BASIN
 CHAPATON RETENTION BASIN
 23001 9 MILE RD
 SAINT CLAIR SHORES MI 48080
 USA

Contract# N40092539 VIOLET PUMP STATION
 VIOLET PUMP STATION
 30801 GREATER MACK AVE
 SAINT CLAIR SHORES MI 48082
 USA

2-21-17
 Chief Deputy BS
 Engineer(s) VA
 Manager(s) _____
 Coordinator(s) BS
 Finance Officer hbm

PA 035077 77500

Subtotal	\$	740.01
Total Invoice Amount	\$	740.01

Handwritten notes:
 BS #0017
 8 1/2 Mile \$592.01
 SEMCOWAS \$148.00

Invoices not paid within 30 days are subject to a service charge of 1.5% per month, or the maximum permitted by law

Please return this portion with your payment

PAYMENT ADVICE

We also accept VISA/Mastercard or EFT payments



Payer: MACOMB COUNTY PUBLIC WORKS 23001 9 MILE RD SAINT CLAIR SHORES MI 48080 USA	Invoice number: 949533556 Invoice Date: 02/01/2017 Customer Number: N273080 KONE Order No: N40092539 Area Office No: U190 Billing Type: YMIO
Remit to: KONE Inc P O BOX 3491 CAROL STREAM, IL 60132-3491	Use this address for payments only. Direct calls and area correspondence to our area office above.
Amount paid if different than invoice amount: \$ INVOICE AMOUNT: \$ 740.01	

Handwritten: Staff 3-7-17

Handwritten: Board - 3-13-17

094953355600000740012



**Martin Control
Services**

FEB 09 2017

MH

Invoice No. 9994

Date: 02/03/2017

23905 Freeway Park Dr.
Farmington Hills, MI 48335
248-476-7660

Billed To: Macomb County Public Works
21777 Dunham Road
Clinton Twp MI 48036

Project: 160929 Chapaton Monitoring

Contact: Vince Astorino

P.O.# Saw #1173-01

Due Date: 03/05/2017

Description	Qty	Rate	Amount
Chapaton Basin Monitoring			
Monitoring Month #4 Jan. 2017	4.000	650.00	2,600.00

Qty: 8 1/2 Mile

Date 2.9.17

Chief Deputy AS

Engineer(s) VA

Manager(s) _____

Coordinator(s) BD

Finance Officer [Signature]

PA034973 70100

Thank you for your prompt payment!

Staff 2-21-17
Board 3-13-17

Non-Taxable Amount:	2,600.00
Taxable Amount:	0.00
Sales Tax:	0.00
Amount Due	2,600.00