EIGHT AND ONE-HALF MILE RELIEF DRAIN INTRA-COUNTY DRAINAGE BOARD SEPTEMBER 12, 2022 10:15 A.M. AGENDA

NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE OPTION FOR PUBLIC

Call in Number: 1-385-645-1319 Access Code: 310 230 337

		Page
1.	Call of meeting to order and roll call	
2.	Approval of Agenda for September 12, 2022	
3.	Approval of Minutes for August 08, 2022	3
4.	Public Participation	
5.	Project & Operational Updates – Vince Astorino	6
6.	8 ½ Mile Relief In-System Storage – Change Order No. 1 – Vince Astorino	18
	Motion: To approve Change Order No.1 with Weiss Construction for a net increase of \$269,666.49 and an additional 70 days for the In-System Storage project.	
7.	Consideration for approval of invoices (see attached)	141
8.	Financial Report – Bruce Manning	277
9.	Adjourn	

SYSTEM LEGEND ASSET LEGEND (AS OF DATE OF PUBLICATION) PUMP STATION SYSTEM BOUNDARY Ø FLOW CONTROL STRUCTURE RTB **DISTRICT LEGEND** GRAVITY INTERCEPTOR (AS OF DATE OF PUBLICATION) IN-SYSTEM STORAGE DEVICE 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT OVERFLOW POINT SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM LEVEL SENSOR MARTIN SANITARY DIVERSION DISTRICT ٥ RAIN GALIGE SOUTHEAST MACOMB SANITARY DISTRICT М FLOW METER NORTHEAST SEWAGE DISPOSAL SYSTEM

MILK RIVER INTERCOUNTY DRAIN DRAINAGE DISTRICT

LOCAL MUNICIPALITY

OTHER

1-94 STORMWATER PS

Hard copy is intended to be 8.5"x11" when plotted, Scale(s) indicated and graphic quality may not be accurate for

any other size.

CHAPATON SYSTEM MAP Macomb County, MI

-MILK RIVER RECIRCULATION

FACILITY

ALGER PS

Southeast Macomb Sanitary District Wastewater Master Plan

PROJECT NO. 181053

USER: MESEDKI

TIME: 1:33:59 PM

DATE: 7/20/2021

LAYOUT: FIG 3-6 CHAPATON SYS

PLOT INFO: Z:\2018\181053\CAD\PRECD\SEMSD OVERALL.DWG

VERONICA RELIEF

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 August 8, 2022, at 10:48 A.M.

PRESENT: Candice S. Miller, Chair

Veronica Klinefelt, Member

Bryan Santo, Member

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Norb Franz, Communications Manager; Denise Harwood, Financial Analyst; Bruce Manning, Financial Manager; Pam Sonnenberg, Administrative Assistant; Tom Stockel, Construction Supervisor; Don VanSyckel, Macomb County Board of Commissioners

PRESENT VIA TELECONFERENCE: Mary Shepard, Environmental and Safety Services Supervisor City of Sterling Heights

The meeting was called to order by the Chair, Candice S. Miller. 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 July 11, 2022 were presented. A motion was made by Mr. Santo, supported by Ms. Klinefelt 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 on the Chapaton Basin and said there had been no wet weather events for the past month. There is finally a contract signed by D'Agostini for Chapaton expansion joint repairs. The contract includes a liquidated damages clause of a \$1,000 per day with a final completion date of October 1, 2022.

The work for Chapaton In-System Storage project will be taking place next week to get all of the poles relocated. We gave the approval for Weiss to shut down Beaconsfield and Oak. Beaconsfield Road is closed right now. We have a new letter on our website and a detour map as well. All of the residents received letters early on in the project. Mr. Astorino presented pictures at Gaukler and Kelly of them capping the top of the interceptor, putting in rebar and putting in the venting cap in the center of the pipe. Those vents are for potential emergencies with the inflatable bladder. They are also doing prep work for the placement of the shaft at Beaconsfield and Oak. We worked with Eastpointe because the water main needed to be relocated. Consumers came out to relocate the natural gas. We started taking delivery of the steel. The office trailers are out there now and will be there for around 18 months. The project is moving well and Mr. Astorino is contemplating bringing a change order to the board next month for extra DTE costs, increase in schedule, and a few other minor things that he wanted to package all in one change order. Ms. Miller asked Ms. Klinefelt if she is getting any

complaints from residents about the project and Ms. Klinefelt responded that she is hearing no complaints. Mr. Astorino added that they have received no complaints as well.

Ms. Miller proceeded to explain that due to the high bid cost received for the Nine Mile Pump Station, efforts have been redirected to various Station and Basin electrical redundancy and rehabilitation projects. She said at this time, we have shelved this project.

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

Adopted: YEAS: 3

NAYS: 0

Mr. Baker presented the In System Storage Petition Project – Computation of Cost Resolution. It is the last step in the petition process and would normally result in a special assessment. However we have the funding so there is no special assessment and no additional cost to the district. It was advised by our attorney to update as a final step and show on Exhibit A, a breakdown of the cost showing that there is no special assessment.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the Computation of Costs Resolution for the 8 ½ Mile In-System Storage Project.

Adopted: YEAS: 3

NAYS: 0

Mr. Baker then updated on the Proposed 2022/23 Budget. The community contribution is 4.9%, slightly less than the projected 5% increase provided earlier this year. Eastpointe and St. Clair Shores received the budget early last week. There were no questions. The budget assumes no assessment for the In-System Storage project. There is also no district funds needed for the Canal Rehab Project. There are 4 new projects funded as noted on page 14 of the packet.

A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the 2022/23 Eight and One Half Mile Relief Drain budget and revenue requirement for the fiscal year beginning October 1, 2022.

Adopted: YEAS: 3

NAYS: 0

It was noted by Ms. Miller how incredible the progress has been in terms of CSO reductions at Chapaton. She stated that it is unbelievable but we still have a long way to go. Ms. Klinefelt added that it is impressive as we have had "some severe downpours!"

The Chair presented the invoices totaling \$928,231.94 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 Mr. Santo, supported by Ms. Klinefelt, 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 11:10 A.M.

Candice S. Miller, Chair

Macomb County Public Works Commissioner

STATE OF MICHIGAN COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on August 8, 2022 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: 8/08/22

Candice S. Miller



Public Works Commissioner Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: September 12, 2022

Subject: Construction Projects Status Updates for the September 2022 Board Meeting

The following provides a status update for construction work completed within the 8 ½ Mile Relief Drain Drainage District (8MRDDD) for the previous month.

Wet Weather Operations

No wet weather events this past month.

There was a fire on 9/2/22 in which the St. Clair Shores Fire Department was mobilized. This occurred around midnight and it is believed to be caused by DTE. After troubleshooting the issue it was found that there was a ground fault on the main power feed to the building which then caused damage to the power control transformer on Storm Pump #3. MCPWO had a spare on the shelf and was able to have Colville replace the unit by the next afternoon. The last time this occurred Storm Pump #1 was out of service for over 6-months.

Chapaton Basin and 9 Mile Drain Structural Repairs Project

Contractor: Pullman / L. D'Agostini & Sons

Engineering Consultant: NTH

Project Description:

This project consists of performing concrete repairs within the Chapaton RTB (constructed in 1968) and the 9-Mile Drain (constructed in 1926). Recent inspections were performed and various types of repairs in numerous locations were noted in the reports. Repairs primarily consist of chipping away damaged concrete, prepping the reinforcing steel and remaining concrete surfaces, and installing a specialized concrete product flush to adjacent surfaces.

Significant project tasks that have occurred over the past month:

- 1. NTH Consultants providing limited construction contract administration for this additional work.
 - Majority of project management performed by MCPWO staff.
 - Submittals are being received and processed by the engineering team.
- 2. Construction activities per Update Period:
 - Install temporary supports for existing flushing pipe as directed.
 - Remove existing I-beam flushing pipe supports and delaminated concrete at expansion joints.
 - Complete concrete repairs and I-beam modifications as required.
 - Contractor has completed 7 of the 8 scheduled concrete repairs located at expansion joints on the north wall of the Chapaton RTB.

3. Construction look ahead:

• Continue to complete repairs on the north wall of the RTB, then move forward with required repairs on the south wall of the Chapaton RTB.

Construction Costs:

	Date (if applicable)	Amount
Pullman Final Amount		\$474,913.50
LDS Contract Amount		\$258,050.00
	Pay App #1	\$85,140.00
Remaining Budget		\$172,910.00

Figure 1- Temporary Pipe Supports

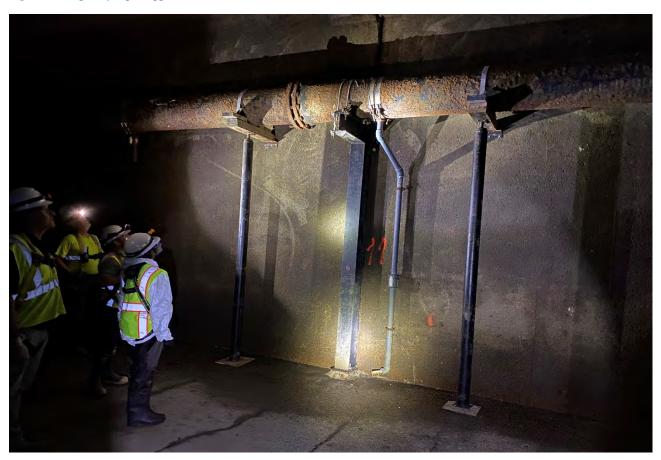


Figure 2 - Preparing Joint for Concrete Fill

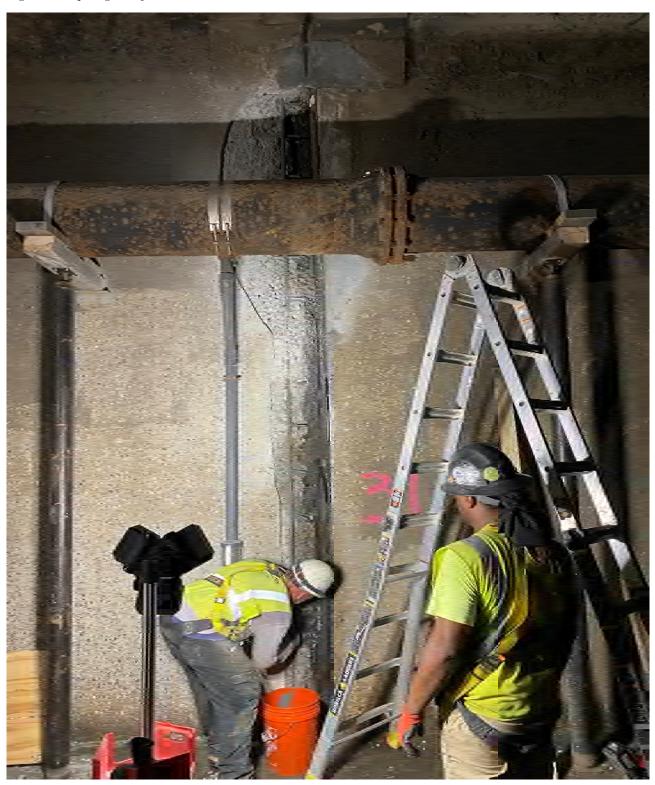


Figure 3 - Forming Joint for Concrete Fill

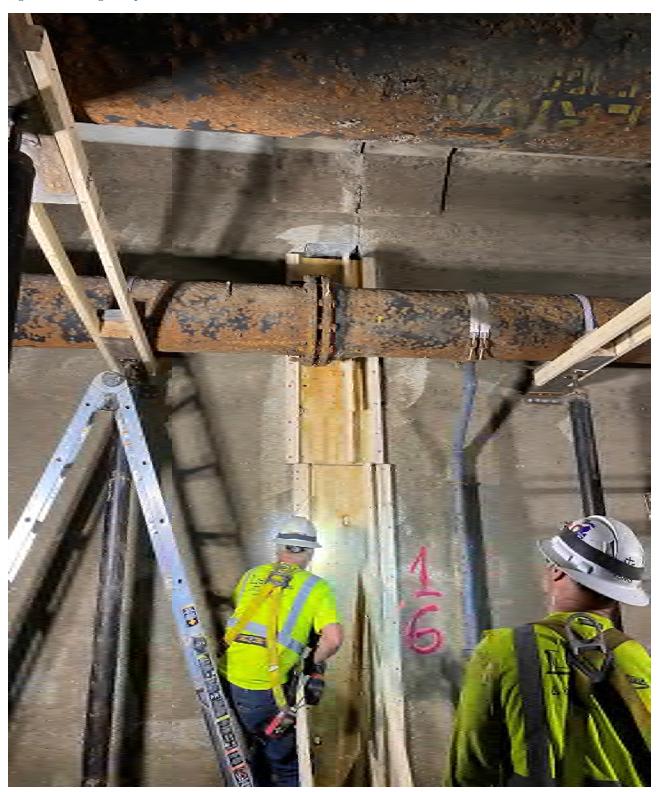


Figure 4 - Concrete Patch Repair



Figure 5 – Installed Slotted Beams



Chapaton In-System Storage Project

Contractor: Weiss Construction

Engineering Consultant: Tetra Tech

Project Description:

The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel.

Significant project tasks that have occurred over the past month:

- 1. Submittals are being received and processed by the engineering team.
- 2. Construction activities per Update Period:
 - Continued staging of steel and other construction materials deliver & stored along Beaconsfield greenbelt.
 - Secured work site with swing gates and privacy fence screening.
 - Completed water main service activities for Eastpointe residents as required.
 - DTE temporary power activities completed by DTE subcontractor Extreme Power.
 - Contractor installed steel support ribs in 11-foot tunnel as planned.
 - Site monitoring equipment and sensors installed prior to pile installation as req'd.
 - Contractor removed existing concrete at Oak and Beaconsfield intersection.

3. Construction look ahead:

- Beaconsfield & Oak: Continue deliveries of steel and other construction materials along Beaconsfield greenbelt.
- Excavation & soldier pile installation at Beaconsfield scheduled September 6th.
- Site vibration monitoring & documentation.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$9,673,200.00
Total Spent to Date	Pay Apps. 1 - 5	\$1,353,007.93
Remaining Budget		\$8,320,192.07

Figure 1 – Relocating Existing Power Lines



Figure 2 – Fencing Installed at Construction Site



OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 ● Phone: 586-469-5325 ● Fax: 586-469-5933 **ENGINEERING** ● Phone: 586-469-5910 ● Fax: 586-469-7693 ◆ **SOIL EROSION** ● Phone: 586-469-5327 ● Fax 586-307-8264

Figure 3 – New Water Main and Gate Well Valve



Figure 4 – Installed Steel Bracing Ribs in 11FT Tunnel



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Figure 5 – Removed Concrete at Oak & Beaconsfield Intersection



Figure 6 – Site Survey & Soldier Pile Layout



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Figure 7 – Aerial Drone Image from 200 feet



Candice S. Miller



Public Works Commissioner Macomb County

To: 8-1/2 Mile Relief Drain Drainage District Board Members

CC: FILE

From: Vince Astorino, Operations & Flow Manager

Date: September 12, 2022

Subject: 8-1/2 Mile Relief In-System Storage – Change Order No. 1

The purpose of this memorandum is to present Change Order No. 1 from Weiss Construction regarding the 8-1/2 Mile Relief In-System Storage project.

On January 30, 2022, Weiss Construction was provided with the notice to proceed for the 8-1/2 Mile Relief In-System Storage project, with a contract amount of \$9,673,200.00 and a substantial completion date of September 23, 2023.

Over the course of the contract, several changes have arose. See below for a summary of changes with the associated dollar amount and/or time extension.

- 1. <u>DTE Power Relocation</u>: As part of the design, an allowance of \$100,000 was included in the construction contract to temporarily relocate DTE power lines, to accommodate construction activities. This effort was discussed with the design team and DTE during the design phase to determine this allowance. After construction commenced, there were many additional items required by DTE that were not identified during design. These changes resulted in an increase of \$190,864.90 for the temporary relocation of the power lines and temporary easement that was required. As a result of the delays caused by DTE, Weiss is requesting an additional **70 days** to be added to the construction project.
- 2. <u>Inflatable Bladder</u>: The design team worked with an overseas company, Floecksmuhle, to design the inflatable bladder. Over the course of the final design and issuance of the construction contract to Weiss, the inflatable bladder cost was increased by \$123,500.00 due to various global supply chain issues as well as the Russia Ukraine conflict.
- 3. <u>Gaukler Site</u>: The ventilation and odor control facility at Gaukler St., near Greater Mack, was originally designed with a carbon canister and vent stack fenced in and above ground. After discussions with St. Clair Shores, they requested to not have the carbon canister above ground. MCPWO worked with Weiss to obtain costs to bury the canister and that cost was \$335,766.06. Therefore, the decision was made to remove the carbon canister. The site will now only have a vent stack that will activate only if there is an emergency which resulted in a credit to the contract of (\$35,686.93).

4. <u>Malvern Site</u> : The ventilation site was originally designed with a decorative vent stack resembling a nautical theme. After comments from St. Clair Shores, this was changed out to a standard green vent stack, resulting in a credit to the contract of (\$9,011.48).
The recommendation is that the 8-1/2 Mile Drain Drainage District Board approve Weiss Change Order No. 1 for the net increase of \$269,666.49 and the addition of 70 days to the construction schedule.
Attachments: Weiss Change Order No. 1 with backup and Construction Administration Notes

CHANGE ORDER NO.: 001

Owner: Macomb County, MI Owner's Project No.: WWS-2019-003
Engineer: Tetra Tech Inc. Engineer's Project No.: 200-16347-19001

Contractor: Weiss Construction Co LLC Contractor's Project No.:

Project: 8-1/2 Mile In-System Storage

Contract Name: 8-1/2 Mile Relief Drain Drainage District In-System Storage

Date Issued: Effective Date of Change Order: Upon Approval

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

Description:

Additional cost due to unanticipated DTE costs and easements.

Additional cost due to increase in materials from the inflatable weir supplier

Additional Cost due to local authority changes to the Gaukler and Malvern sites

Additional time due to extensive coordination with and time delays by DTE

Attachments:

Summary of Changes (Table)

Letter from Contractor outlining additional costs from DTE

Letters from Contractor and Engineer outlining additional costs for inflatable weir

Proposals from Contractor for credits at Gaukler and Malvern sites

Letter and schedule from Contractor outlining need for additional time

Email from Contractor describing anomalies in the schedule

Change in Contract Price

Change in Contract Times [State Contract Times as either a specific date or a number of days]

	enange in contract i nec		44,0]
Origi	nal Contract Price:	Original Contract Times:	
		Substantial Completion:	09/23/2023
\$	9,673,200.00	Ready for final payment:	11/22/2023
Char	nge from previously approved Change NONE	Change from previously app	roved Change Orders NONE
		Substantial Completion:	0 days
\$	0.00	Ready for final payment:	0 days
Cont	ract Price prior to this Change Order:	Contract Times prior to this	Change Order:
		Substantial Completion:	09/23/2023
\$	9,673,200.00	Ready for final payment:	11/22/2023
Incre	ease this Change Order:	Increase this Change Order:	
		Substantial Completion:	70 Days
\$	269,666.49	Ready for final payment:	72 Days
Cont	ract Price incorporating this Change Order:	Contract Times with all appr	oved Change Orders:
		Substantial Completion:	12/02/23*
\$	9,942,866.49	Ready for final payment:	02/02/2024**
		1	

*See Notes Next Page

	Recommended by Engineer (if required)	Authorized by Owner
Ву:	- Juniper by	
Title:	Construction Manager	
Date:	09/02/2022	
	Authorized by Owner	Approved by Funding Agency (if applicable)
Ву:		
Title:		
Date:		

*The Engineer notes anomalies and inconsistencies on the submitted schedule which need to be corrected by the Contractor. However, there are no exceptions taken with regard to the proposed Substantial Completion and Final Completion Dates. There is an email attached to this document outlining some of these anomalies. This schedule is to be used for the purpose of documenting a time extension via this Change Order #1 only, and not to obtain an accurate view of the proposed progress.

**It is accepted that the Contractor will be unable to perform restoration of lawns and grasses by the proposed Date of Final Completion due to the time of year. Based on seasonal restrictions, the Contractor will complete all tasks related to Final Completion by the date given on this Change Order #1, with the sole exception of restoration. The time period for this task will be extended to June 1, 2024, to allow grass growth to be established prior to final closeout.



CHANGE ORDER SUMMARY

OWNER: Macomb County, Michigan Project: 8-1/2 Mile In-System Storage

CHANGE ORDER NO.: 1

Description	Add/	Amount
	Deduct	+(-)
DTE and Easements	Add	\$190,864.90
Inflatable Weir (Floecksmuhle)	Add	\$123,500.00
Gaukler Site Changes	Deduct	(\$35,686.93)
Malvern Site Changes	Deduct	(\$9,011.48)
TOTAL THIS CHANGE ORDER	Add	\$269,666.49

Due to proposed changes to contract and work. Please see supporting documentation attached hereto.

Current Contract Amount	\$9,673,200.00
Amount this Change Order Add	\$269,666.49
New Contract Amount	\$9,942,866.49

WEISS CONSTRUCTION CO. LLC



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Wednesday, July 20, 2022

Mr. Timothy Ard **Construction Manager** Tetra Tech 710 Avis Drive, Suite 100 Ann Arbor, MI 48108 Via- Electronic Delivery (Email)

RE: Tetra Tech 200-16347-19001: Macomb WWS-2021-006; Weiss WC22-01

Subject: DTE Update 7/6/2022 - CE-01R3 - DTE Changes Including Easement Payment and Street Lighting

Dear Mr. Ard-

Please consider this letter a formal update to our letters dated 4/25/2022, 7/1/2022, and 7/8/2022. Weiss continues to track this issue under Change Event 1 (CE-01). Weiss specifically requests additional funds for the direct DTE costs to perform the relocation work and permanent new service (allowance work) as well as additional funds for work DTE has excluded as part of their fees (underground electrical by Weiss and Weiss subcontractor Rotor). Weiss has removed its OHP on the actual construction costs changes, Rotor's OHP remains. Additionally, MCPWC has requested that Weiss make payment to the True Church Ministries located at 21801 Beaconsfield for settlement of the DTE temporary easement. Finally on 7/14/2022, Weiss was contacted by DTE's Community Lighting (Street Lighting) division (Chris Mira) and notified additional funds would be due to this division. Weiss was not contacted or informed of this cost prior to this date.

The base contract contains an allowance of \$100,000 to pay for the temporary relocation work as well as the new service up to the service switch (located on the control building). It is our understanding this amount was an estimate based upon the number of poles to be relocated (as shown on the plans).

00.00			
\$ 21,440.06			
70.42			
00.00			
LO.48			
00.00 10.48			
)(

Total Direct Construction Costs \$ 81,954.42

Total Cost Above and Beyond Allowance \$ 190,864.90

Weiss requests funding to complete the underground electrical working feeding the new ISS control building. Originally, this work was shown to be overhead. DTE has demanded this service work must be performed at the same time as all other relocation work. As such, it must be moved underground to facilitate construction activities in accordance with MISOHA regulations (as explained in previous correspondence). Weiss has worked with DTE, Consumers Energy, and the City of Eastpointe over the last few weeks to finalize this plan of work as shown on the attached marked-up utility plan.

WEISS CONSTRUCTION CO. LLC



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Wednesday, July 20, 2022

The attached quote summarizes these direct construction costs for the conduit ductbank (by Rotor) as well as all excavation, backfill, and resident concrete replacement (by Weiss) for a **REVISED** total of: **\$81,954.42** (Weiss OHP removed).

This quote excludes any work on the 2" water main servicing the two homes on the South side of Oak (should be able maintain service) outside of our contract work required during the 8" watermain relocation.

Weiss is also requesting reimbursement for payment to be made to True Church Ministries (Gregory Tukes) located at 21801 Beaconsfield pursuant to conversations 7/7/2022. This payment is **\$6,000** and does not include any additional terms other than the agreement between DTE and True Church Ministries.

Various fiber optic/telecom companies (WOW and Eversteam) have been contacted through DTE's shared use program for all the aforementioned poles affected. None have indicated cost for the work or issues with scheduling within the projects approximate timeframe but nonetheless we must exclude these costs at this time.

DTE has verbally committed this work to a tentative schedule of 6-8 weeks post approval and continuously notes they are working to expedite. Until this date is firm and work is scheduled, the project schedule impact cannot be fully ascertained. Per conservations 7/7/2022, it appears DTE is hoping to start this work on 7/29/2022. We are preparing a schedule update with conservative assumptions in place.

Weiss herby continues to reserve its rights for additional contract time and increased cost associated with this change. Weiss has worked to minimize general conditions impacts by delaying full mobilization to the Beaconsfield site.

Sincerely,

Zachary Zechmeister Project Manager

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: Brian Rubel, David Weiss



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escription	Qty	Unit	L	ab Unit	Labor Total		Mat Unit		Material	E	quip Unit	E	quipment	Subcontractor	Sales Tax
15 lineal ft duct bank															
Labor															\$ -
1 ea. Carp Foreman	40	hr	\$	70.95			-	\$	-	\$ \$	-	\$	-		\$ - \$ -
1 ea. Laborer 2 ea. Operator	40 80	hr hr	\$ \$		\$ 2,019.20 \$ 5,628.80		-	\$	-	\$	-	\$ \$	-		\$ - \$ -
			*	, , , ,	* 0,020.00	•		•		•		•			\$ -
Material															\$ -
Dirt out - spoils for open cut plus Sand in	98.00 127.00	yard ton		0.00 0.00		\$ \$	15.00 20.00	\$	1,470.00 2,540.00	\$	-	\$	-		\$ 88.20 \$ 152.40
Concrete Encasement	20.00	yd		0.00	, -	\$	180.00	\$	3,600.00						\$ 216.00
Resteel #4x4 at 215 plus ties	0.60	ton				\$	1,400.00		840.00						\$ 50.40
															\$ -
Equipment Mini Excavator - 11,000 lb				0.00	_	_			_		1 245 00		1 245 00		\$ - \$ -
Skid Steer - mid size	1	week week		0.00	> -	\$	-	\$	-	\$ \$	1,315.00 585.00	\$	1,315.00 585.00		\$ -
Foreman Pickup	40	hr								\$	10.00	\$	400.00		\$ -
- Mobe and Demobe Large Equipment	4	LS		0.00	\$ -	\$	-	\$	-	\$	500.00	\$	2,000.00		\$ -
dewalk R&R - Assumed 4"															\$ -
Labor															\$ -
1 ea. Carp Foreman	16	hr	\$	70.95	\$ 1,135.20	\$	-	\$	-	\$	-	\$	-		\$ -
2 ea. Laborer	32	hr	\$		\$ 1,615.36		-	\$	-	\$	-	\$	-		\$ -
1 ea. Operator	16	hr	\$	70.36	\$ 1,125.76	\$	-	\$	-	\$	-	\$	-		\$ - \$ -
Material															\$ -
Concrete and Base Out	12.00	yard				\$	15.00			\$	-	\$			\$ 10.80
Sand in	5.00	ton				\$	20.00		100.00						\$ 6.00
4" sidewalk, 602 sf	10.00	yd				\$	180.00		1,800.00						\$ 108.00
Misc Edge Form Concrete	1.00 8.00	LS yard				\$ \$	1,500.00 180.00	\$	1,500.00 1,440.00						\$ 90.00 \$ 86.40
	3.00	yaru				7	100.00	٠	1,770.00						\$ 86.40
Equipment															\$ -
Skid Steer - mid size	1	week								\$	585.00	\$	585.00		\$ -
Foreman Pickup	16	hr								\$	10.00	\$	160.00		\$ - \$ -
pproach R&R - Assumed 6"															
															\$ -
Labor															\$ -
1 ea. Carp Foreman	4 8	hr hr	\$ \$	70.95 50.48			-	\$	-	\$ \$	-	\$	-		\$ - \$ -
2 ea. Laborer	٥	111	Þ	30.46	\$ 405.64	÷		ş	-	Þ		Þ			\$ -
Material															\$ -
Concrete and Base Out	8.00	yard				\$	15.00		120.00	\$	-	\$	-		\$ 7.20
Sand in	4.00	ton				\$			80.00						\$ 4.80
6" pavement, 208 sf	5.00 1.00	yd LS				\$ \$	180.00 500.00		900.00 500.00						\$ 54.00 \$ 30.00
Misc Edge Form Concrete	4.00	yard				Ş S	180.00		720.00						\$ 43.20
		,				•		,							\$ -
Equipment															\$ -
Skid Steer - mid size - INC ABOVE	1	week								\$	10.00	\$	-		\$ - \$ -
Foreman Pickup	4	hr								Þ	10.00	\$	40.00		\$ - \$ -
sident Lawn Restoration															
Labor															\$ - \$ -
1 ea. Carp Foreman	8	hr	\$	70.95	\$ 567.60	Ś	_	\$	_	\$	_	\$	_		\$ -
2 ea. Laborer	16	hr	\$		\$ 807.68		-	\$	-	\$	-	\$	-		\$ -
1ea Laborer to water daily, 4 weeks	20	hr	\$	51.48	\$ 1,029.60										\$ -
Matorial															\$ -
Material Topsoil	22.00	yard		0.00	ė .	\$	25.00	ė	550.00	ė		\$			\$ - \$ 33.00
Seed and Mulch Blankets	1.00	LS		0.00	· -	\$	1,500.00		1,500.00	ب	-	ڔ			\$ 90.00
	-	·					,		,						\$ -
Equipment															\$ -
Skid Steer - mid size	1	week								\$	585.00		298.35		\$ - \$ -
Foreman Pickup	8	hr								\$	10.00	Þ	80.00		.
otor Electric Duct Bank															
Rotor Electric Duct Bank - see quote - sub OH	P remains	:												\$ 40,125.83	\$ -
btotal Construction Costs ONLY					\$ 17,454.84			\$	17,840.00			\$	5,463.35	\$ 40,125.83	\$1,070.40
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iole Grand Total - Construction Costs ONLY					\$ 81,954.42	1									
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TE Temporary Relocation Work					\$ 173,000.00										
FE Perm.Work					\$ 21,440.06										
urch Easement - Request from Pastor					\$ 6,000.00 \$ 8,470.42										
TE Lighting Rec 7.14.2022 Stal Allowance Work					\$ 8,470.42										
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escription	Qty	Unit	La	b Unit	Lal	or Total		Mat Unit		Material	E	quip Unit	E	quipment	Subcontractor	Sales Tax
5 lineal ft duct bank																
L abor 1 ea. Carp Foreman 1 ea. Laborer 2 ea. Operator	40 40 80	hr hr hr	\$ \$ \$	70.95 50.48 70.36	\$ \$ \$	2,838.00 2,019.20 5,628.80	\$	-	\$ \$ \$	-	\$ \$ \$	-	\$ \$ \$	- - -		\$ - \$ - \$ - \$ -
Material Dirt out - spoils for open cut plus sand in Concrete Encasement Resteel #4x4 at 215 plus ties	98.00 127.00 20.00 0.60	yard ton yd ton		0.00 0.00		-	\$ \$ \$ \$	15.00 20.00 180.00 1,400.00	\$	1,470.00 2,540.00 3,600.00 840.00	\$	-	\$	-		\$ - \$ 88.20 \$ 152.40 \$ 216.00 \$ 50.40 \$ -
iquipment Alini Excavator - 11,000 lb kikid Steer - mid size Ioreman Pickup - Mobe and Demobe Large Equipment	1 1 40 4	week week hr LS		0.00		-	\$	-	\$	-	\$ \$ \$	1,315.00 585.00 10.00 500.00	\$ \$ \$	1,315.00 585.00 400.00 2,000.00		\$ - \$ - \$ - \$ - \$ -
ewalk R&R - Assumed 4"																\$ -
labor 1 ea. Carp Foreman 2 ea. Laborer 1 ea. Operator	16 32 16	hr hr hr	\$ \$ \$	70.95 50.48 70.36	\$ \$ \$	1,135.20 1,615.36 1,125.76	\$	-	\$ \$ \$	- - -	\$ \$ \$	-	\$ \$ \$	- - -		\$ - \$ - \$ - \$ - \$ -
Material Concrete and Base Out Sand in "I' sidewalk, 602 sf Misc Edge Form Concrete	12.00 5.00 10.00 1.00 8.00	yard ton yd LS yard					\$ \$ \$ \$	15.00 20.00 180.00 1,500.00 180.00	\$ \$ \$	180.00 100.00 1,800.00 1,500.00 1,440.00	\$	-	\$			\$ - \$ 10.80 \$ 6.00 \$ 108.00 \$ 90.00 \$ 86.40 \$ -
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Material Concrete and Base Out and in "" pavement, 208 sf Misc Edge Form Concrete	8.00 4.00 5.00 1.00 4.00	yard ton yd LS yard					\$ \$ \$ \$	15.00 20.00 180.00 500.00 180.00	\$ \$ \$	120.00 80.00 900.00 500.00 720.00	\$	-	\$	-		\$ - \$ 7.20 \$ 4.80 \$ 54.00 \$ 30.00 \$ 43.20
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sident Lawn Restoration																•
abor ea. Carp Foreman ea. Laborer ea Laborer to water daily, 4 weeks	8 16 20	hr hr hr	\$ \$ \$	70.95 50.48 51.48	\$	567.60 807.68 1,029.60		 	\$	-	\$ \$	-	\$ \$	- -		\$ - \$ - \$ - \$ - \$ -
Material Fopsoil Geed and Mulch Blankets	22.00 1.00	yard LS		0.00	\$	-	\$	25.00 1,500.00		550.00 1,500.00	\$	-	\$	-		\$ - \$ 33.00 \$ 90.00 \$ -
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al Including - Construction Costs ONLY																
and Total - Construction Costs ONLY ote Grand Total - Construction Costs ONLY						17,454.84 81,954.42]		\$	17,840.00			\$	5,463.35	\$ 40,125.83	\$1,070.40
owance Work E Temporary Relocation Work E Perm.Work urch Easement - Request from Pastor E Lighting Rec 7.14.2022 al Allowance Work					\$ \$ \$.73,000.00 21,440.06 6,000.00 8,470.42 208,910.48										
					\$ 1	.00,000.00										

July 1, 2022

Weiss Construction 41001 Grand River Ave Novi, MI 48375

Attn: Zach Zechmeister

RE: 8 ½ Mile Relief Drain Drainage District

Rotor Job No. 722014

Correspondence #0001 - RFC-22621 - DTE UG Duct bank Revision 1

Zach Zechmeister,

Rotor Electric is pleased to provide this quotation in the amount of \$40,125.83 for the work indicated below:

Scope:

- 1. Provide and install (2) 4" PVC Conduit with associated duct bank chairs for the DTE incoming feed across Beaconsfield. Included in this cost is (1) set of (3) 1/c 15kv, #2 Aluminum conductors the same length of the conduit.
- Provide and install (1) 4" PVC Conduit with associated ductbank chairs for the Internet incoming service. Included in this cost is an underground rated, Category 6 cable.
 If a 4" is not needed per internet provider recommendations, we will downsize to smaller conduit.
- 3. Rotor Electric assumes DTE will provide the necessary Stress Cones and termination labor required.
- 4. Rotor Electric assumes Comcast or some other Internet Service Provider will include the necessary terimations and associated paraphenalia needed to make the connections.

Clarifications:

- This work is anticipated to take place after July 1, 2022 and before July 1, 2023 so a 5% labor escalation cost is included in this quotation. If the work is delayed to after July 1, 2023, an additional labor rate increase will need to be addressed.
- 2. The Material pricing is based on the current commodity pricing. Rotor Electric will procure the material as soon as this quotation is approved to mitigate any material escalation charges.
- 3. All work is performed during normal working hours.
- 4. Excavation, Concrete, Reinforcement, backfill are excluded.
- 5. This quotation is valid for 30 days. After which time revised pricing for material escalation will need to be provided.

Should you have any questions or concerns, please don't hesitate to contact us at (313) 468-3751.

Sincerely,

ROTOR ELECTRIC COMPANY OF MICHIGAN, LLC

Ben Calandrino Project Manager

Enclosures: Estimate Print

	Description	Quantity	Net Cost	Unit	Total Material	Labor	Unit	Total Hours
1	4" LOCKNUT - STEEL	6	1,041.46	С	62.49	80.00	С	4.80
2	4" CONDUIT - PVC40	630	220.11	С	1,386.69	21.88	С	137.84
3	4 x 24" RAD ELBOW 90 DEG - PVC40	6	4,812.55	С	288.75	180.00	С	10.80
4	4" COUPLING - PVC	10	413.00	С	41.30	5.00	С	0.50
5	4" ADAPTER MALE - PVC	6	615.16	С	36.91	120.00	С	7.20
6	4 x 3" BASE SPACER	158	267.04	С	421.92	30.00	С	47.40
7	4 x 3" INTERMEDIATE SPACER	158	257.70	С	407.17	30.00	С	47.40
8	# 2/1C 15KV SHLD 100%	630	5,000.00	М	3,150.00	39.00	М	24.57
9	#18 RG6/U MATV CABLE	210	0.00	М	0.00	0.00	М	0.00
	Totals	1,814			5,795.23			280.51

	Labor Type	Crew	Hours	Rate \$	Total
1	FOREMAN	1.00	140.26	94.32	13,229.32
2	JOURNEYMAN	1.00	140.26	85.65	12,013.27
	Totals	2.00	280.52	89.98	25,242.59

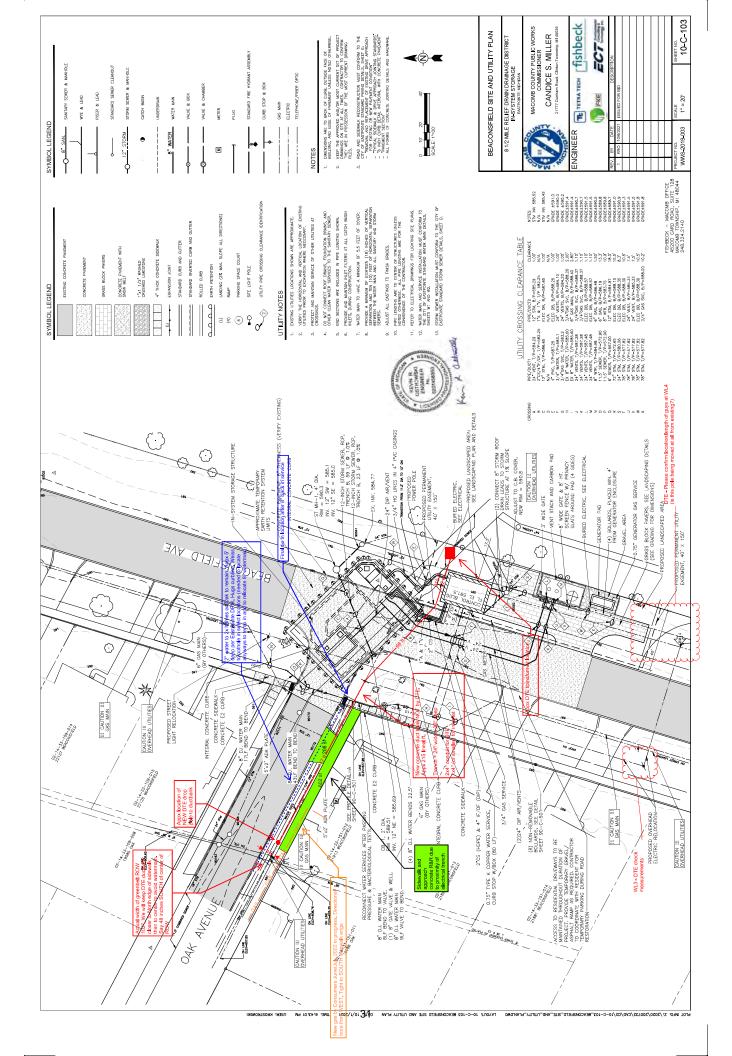
	Escalation Period	Description	% of Contract	Labor Hours	Escalation %	Escalation \$
1	Entire PRoject	Work in next Labor Period	100.000	280.52	5.000	4.50
	Totals		100.000	280.52		

	Escalation Period	Total
1	Entire PRoject	1,262.34
	Totals	1,262.34

	General Expenses	Quantity	Field	Duration	Cost/Unit	Total Cost
18	Safey	280.52	DirLb Hours	1.00	2 <u>.</u> 25	631.17
	Totals					631.17

	Equipment	Quantity	Field	Duration	Cost/Unit	Total
26	SErvice Truck	280.52	DirLb Hours	0.50	11.50	1,612.99
	Totals					1,612.99

Final Pricing	Modified (%)	Modified (\$)
Database Material (Extension)		2,645.23
Quoted Material (Extension)		3,150.00
Material Tax	6.000	347.71
Material Total		6,142.94
Direct Labor		25,242.59
Labor Escalation		1,262.34
Labor Total		26,504.93
General Expenses		631.17
Equipment		1,612.99
Total Cost		34,892.03
Adjustment Markup	15.000	5,233.80
Total Markup	15.000	5,233.80
Selling Price		40,125.83
Final Price		40,125.83



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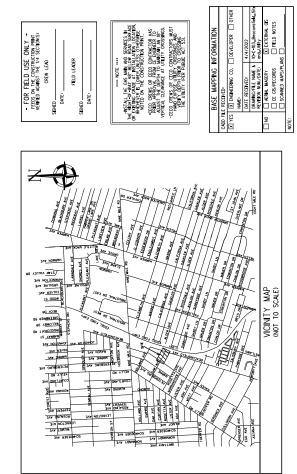
ENERGY - FOR REFERENCE ONLY CONSUMERS CONSUMERS PLAN

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SAFETY OBSERVATIONS

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REVIEWED BY: PEER REVIEW

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CONSUMERS ENERGY CONTACTS · ABLE TO APPROVE FIELD CHANGES

PERMITS/NOTFICATIONS

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STOURT DRAWN

COUNTY DRAWN

TRENCH 6
BORE 375
TRENCH 14
BORE 63

NSTALL 2" P-UP

NSTALL 6" P-MP

SERVICE INFORMATION LONG SIDE RENEWALS
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COURTNEY SMITH 4/15/2022 APPR: SHEETS CONSTRUCTION CERTIFICATION

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CONSUMERS PLAN - FOR REFERENCE ONLY

Consumers Energy

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

8. MAINTENANCE NOTES

- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF CASTOF 1994 AS ARENDED, THE SOIL EROSION AND SEDIMENTATION CONTROL ACT AND THE MACOMB COUNTY SOIL EROSION AND SEDIMANTATION CONTROL ORDINANCE.
 - ALL EROSION AND SEDMENTATION CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACOMIA COUNTY PUBLIC WARKS OFFICE.
- EROSON AND ANY SEDMENTATION FROM WORK ON THIS SITE SHALL BE CONTANDED ON THE SITE AND NOT ALCHOED TO COLLIGET ON ANY OFF SITE AREAS OR IN WATERWAYS MACKLUDE BOTH MATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRANS, LAKES AND PONOS.
 - STACNG THE WORK WILL BE DONE BY THE LANDOWNER OR LANDOWNERS REPRESENTATIVE AS DRECTED IN THESE RLANS AND AS REQUEED TO BISHARE PROGRESSIVE STABILIZATION OF DISTURBED LEATH OFFWARE.
 - THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.
- THE LABOURER OF LABOURERS RESERVATING SALLA IMPLEMENT AND MATCH AND THE LABOURERS AS SHOWN ON THE PLAYS BEFORE AND AT ALL IMPLEMENTS AS SHOWN ON THIS THE PLAYS BEFORE AND AT ALL IMPLEMENTS ON ADMINIST OF THE STATE EXPOSED CONTROL MEASURES D.C. TO CONSTRUCTION ON CHANKED TO CONSTRUCTION ON CHANKED TO COMMITTION SHOW ADMINISTRATION ON CHANKED TO COMMITTION SHOW SHOWN OF THE MACOMB COUNTY.
- F. R. ANY OF THE SESO. MEMBERS ON THE SITE ARE DEELED INDECUNITE OF NETFECTINE, THE MACOMB COUNTY PRBLIC WORKS OFFICE SESSE DIVISION HAS THE RIGHT TO REQUIRE ADDITIONAL, SESO MECARES AT THE EXPENSE OF THE LANDOWNER, CONTACT THE CECO. CERTIFELD STORM WATER OFFENTION PRORY TO MAKE DETERMANTON.
- B. BISTAL SIT FREGS S ROUGHDO UT FE HAN JAN AT ADDITIONAL MERS AS MECESSAY CONFACT THE CECO. CERTIFICATION OF THE ASSAY CONFACT THE CECO. CERTIFICATION OF THE STANDARD STORM WATER OF SHALL BE INSTALLED PER DETAIL.

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 WANTIMED UNIT PERMARNI STABLIZATION IS COMPLETED.
- . ALL STOCKPILED SOLLS SHALL BE MANTANED IN SUCH A WAY AS TO DEEVENT RESOLSON FROM LEAVING THE STIFE. THE STOCKPILE WILL BE ON SITE FOR MOME THAN 30 DAYS, THE STOCKPILE MIST BE SEEDED, SLIT FENCE MIST BE SECEDED. SLIT FENCE MIST BE INSTALLED AROUND THE PERMÆTER OF THE STOCKPILE.
 - WEATHERD STEEDING, USE SEEDING, USE SEEDING, USE ARE SWITH UP-WEATHERD SHALL CRAIN SPEED UNFORKEY AT THE RAIT OF 1 TO IT UNK THER AGKE ON FOR DANNESS USES SHEES) PER MOOD SUB-TELL IN MULLOR SHOULD BE MANDERS WITH DESCRIPE MACH MANDROWS TOOL ON OTHER MEANS OF APPROVED BY THE MACHON OF LOOSE MULCH.
- i. DEWATERING N/A FOR THIS PROJECT
- ALL DIRT TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.
- STREETS AND OR PARING AREAS WILL BE SCRAPED ON A DALY BASIS AND SWEPT AT A MINAMAN OF ONCE PER WEEK BY THE LANDOWNER OR LANDOWNERS REPRESENTITIVE.

 - B. DURNG DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL.

GAS CADO TITLE BLOCK D SHEET (2020)

18. PERMAREN SOIL SCHOOL CONTROL MEASURES FOR ALL SCHOES.
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20. FINAL GRADE, ESTABLISH VEGETATION AND OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.

REMOVE ALL TEMPORARY SOIL EROSION DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.

UNDERSTAND MY RESPONSIBILITY OUTLINED UNDER THESE GUIDELINES.

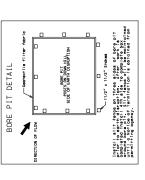
FAILURE TO COMPLY WITH THE SESC PLAN AND THESE GUIDELINES MAY RESULT IN ENFORCEMENT ACTION AGAINST THE LANDOWNER.

BORE PIT LOCATIONS TO BE DETERMINED IN FIELD

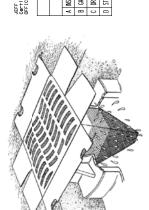
PROJECT TYPE:RETIRE GAS MAIN FOR SEWER PROJECT PROJECT LOCATION:BEACONSFIELD AT OAK AVENUE

PARCEL ID NUMBER:02-14-33-151-012 SIZE OF EARTH CHANGE:0.01 AC

SOIL TYPES: Ts, Lh



NAME OF NEAREST WATERBODY: CHAPATON DISTANCE OF NEAREST WATERBODY: > 500' APPROXIMATE START DATE: 7/5/22
APPROXIMATE COMPLETION DATE: 7/22/22



DN TIME SCHEDULE 2022 WITS IWE PRE IWY AN AL ALE SP OCT NOT	‡
CONSTRUCTION SECRET AND CONSTRUCTION STAR Operator No. C-14671	D STABLIZE GROUND WITH VEGETATION (os needed)

THS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. THE SOIL EROSION AND SEDIMENT CONTROL ACT.

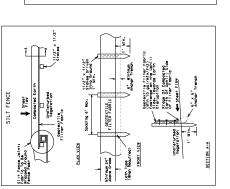
INSTALL SILT FENCE AS NEEDED

INSTALL GEOTEXTILE FILTER FABRIC AS NEEDED

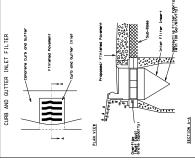
Stoples/ Noils 6" Win Specing

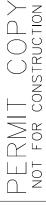
Georextile Filter Fabric (Nin. 100 Gal/Min./#42)

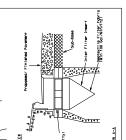
CATCH BASIN INLET FILTER USING GEOTEXTILE FILTER FABRIC



Leth Strtp







Note: Georextile Filter Fabric Is Not Silt Fence Material

Rear Yord Catch Bosin inlet Filter 4-Post Construction With Geotextile Filter Fabric (Min. 100 Gal/Min./#12)

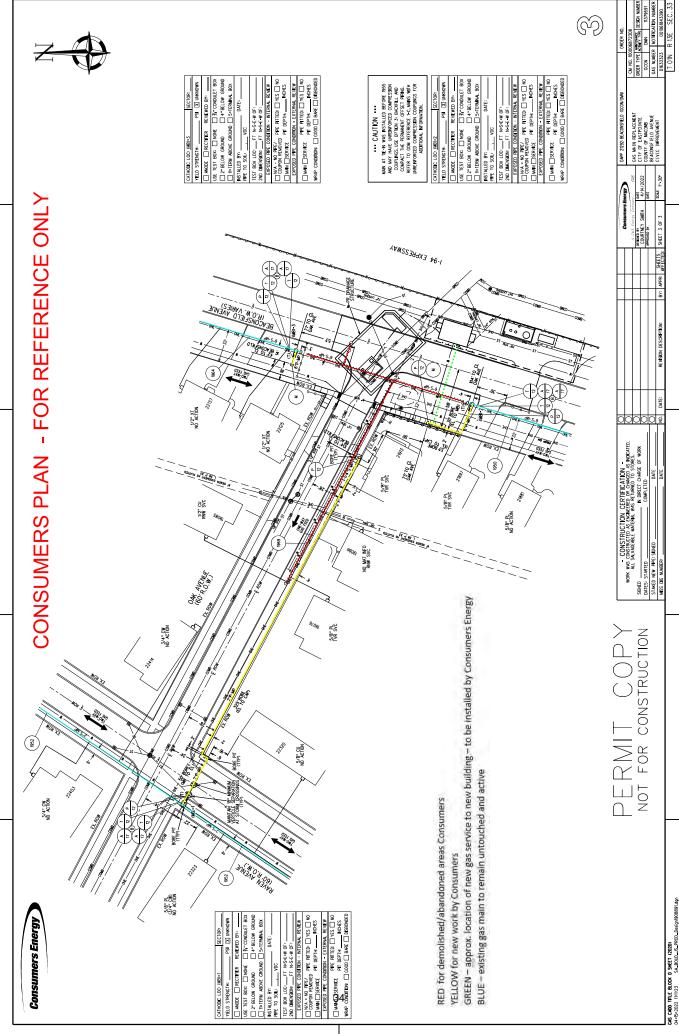


WORK WAS C	SIGNED DATES: STARTED	STAKED NEW PIPE:	MISS DIG NUMBER:
72-HOUR NOTIFICATION	586-469-5327		

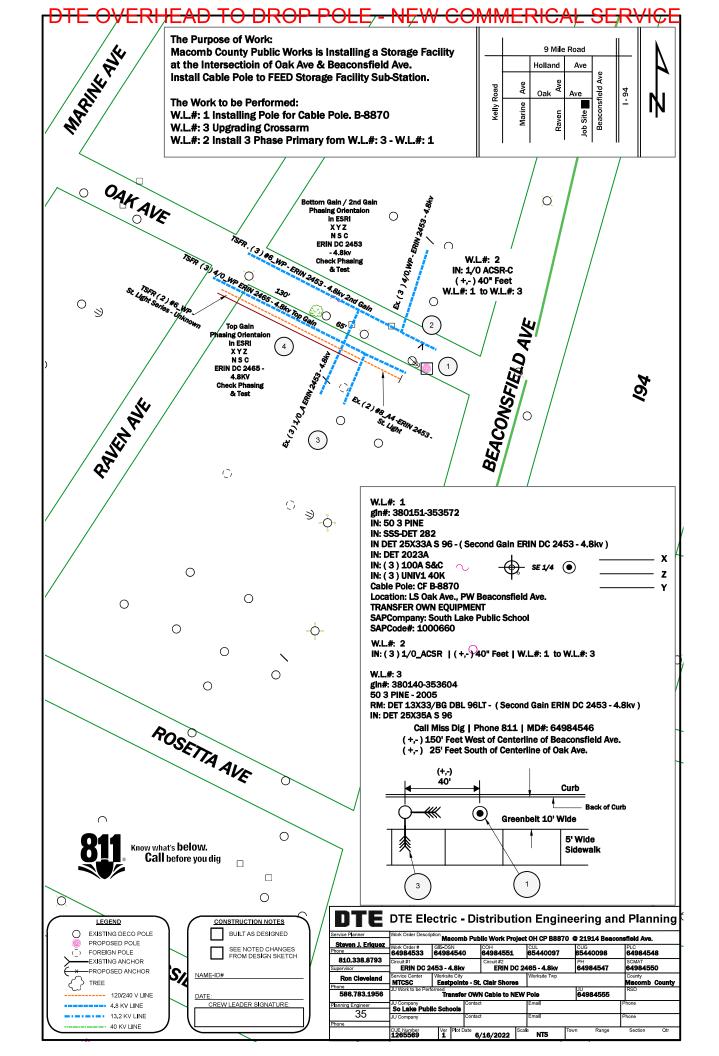
- CONSTRUCTION CERTIFICATION -	5					Concumore Engrav	Guaran		_	UNDER NO.
WORK WAS CONSTRUCTED AS ENCANCERED OR CHANGED AS INDICATED.	0						(A)	GAS MAIN REPLACEMENT	CM NO.	
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IN DIRECT CHARGE OF WORK)					DESIGNED BY DATE	DATE	CITY OF EASIFULNIE	MOER THE	DER TYPE CONTROL DESIGN NUMBER
0.000	C					COURTNEY SMITH	4/14/2022	4/14/2022 COUNTY OF MACOMB		
ALES: SLAKIED)				1	48 03/KB 81	DATE	BEACONCELEID AVENIE		
TAMED NEW PIPE: SIGNED DATE	0							CIVIC IMPRIVEMENT	SAS NUMBER	NOTFICATION NUMBER
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ORDER NO.



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URD Operating Map #	Transformer GLN			Liectric	Primary Cable	Size & Typ	ie -		Stock Number: 13-3096	Trench 175'	Make-Up	Total 215'
Name Macomb County Public Works				ld Ave	Secondary Ca	ıble Size &	Туре		Length	No. Sets	Customer [OTE Electric
Address 21914 Beaconsfield A		Mile Dead	consile	ia Ave	L_3/0A L	pec. Numb		N_ 3/UA	20' Transformer Co		X	10
County City/Village/Towns Macomb Eastpointe - St. Cl		Section Numb	ber	Mun. Code	1-21 Transformer N Page: 3-6-3	L 7-270	D	etail	Page 1722 Gd. Spec	Cus		18 E Electric
Distribution Circuit & Voltage					Transformer		Size		Number	Prin	nary - VOLTAGE	
	ectric Secondary Trench	Length	Customer	DTE Electric		3 Phase >		Detail	23 S	d. Term.	.8kv - 277, Gd. Sp 2-321 1-1	
Primary Conduit Size, Type & Length 4" Electrical Sched 40 PVC	Length 175'	Fish Line		DTE Electric		R	CN Z T	•) T	o Construct	1
Secondary Conduit Size & Type 4" Electrical Sched 40 PVC	Length 20'	1		DTE Electric	Service Plann		rute.	Date:		•	and Energize	
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Work Order # 85440058 Service Center MTCSC	Work Order Des	cription			4-4-64-64-5-		Aur	GIS-DSN	SRW	RSD	PH PH	PLC
65440058 Service Center MTCSC	Circuit #1	Macomb Cout 2453 - 4.8kv	y rubiic W	Circuit #2	t at 21914 Be N DC 2465 - 4		AVO.	65440058 COH 64984551	cos	CUG 65440098	64984547 CUL 65440098	cus
Worksite City City of Eastp	ointe & St. Clair Shore			Worksit					Worksite Coun Macomb Cour	y ity	1	SCMAT 654400995
Town Ra	nge Section Qtr		Planner	Name J. Eriquez			Makilaki	940 999 9709	CUE Request #	Version Plot Da	te Scal	NTS



Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Regarding: 21914 Beconsfield Ave., St. Clair Shores, City St. Clair Shores Township

Enclosed are two (2) copies each of the Line Extension Agreement and the Electrical Drawing for the address referenced above. Please make sure that the information on these documents agrees with the information in your building plans. When you are satisfied that the information is correct, please sign one (1) copy of each.

Also included for your signature are the Certificate of Grade documents. Please note that **two** (2) copies of the Certificate of Grade document are required. Return the signed documents to me along with a check payable to DTE Energy for \$21,440.06. To ensure proper credit of your payment, the contract number should be indicated on your remitted check. Keep the "Customer Copy" documents for your records.

When we receive the signed documents and your check, we will proceed to schedule the work necessary to provide electric service to your development. If you have any questions regarding this job, please feel free to contact me at the phone number or e-mail address indicated below.

Sincerely,

Steven Eriquez

Planner

586.783.2024

steven.eriquez@dteenergy.com

Enclosures:

Two copies of the Line Extension Agreement
Two copies of the Electrical Layout (Attachment A)
Three copies of the Certificate of Grade

DTE- NEW COMMERICAL SERVICE FEES ONLY

Line Extension Agreement for Commercial or Industrial Customers No. 1448302800



"DTE Energy" and "Customer" make this agreement for consideration of the promises in the Agreement.

"DTE Energy" is: "Customer" is:

The DTE Energy Company 43230 Elizabeth Rd Clinton Township, MI 48036

Macomb County Public Works
Zach Zechmeister
41001 Grand River Ave
Novi, MI 48375

Background Statement: Customer requests DTE Energy to install a 277/480 volt ac, three phase electric service at 21914 Beconsfield Ave., St. Clair Shores, Michigan in City St. Clair Shores Township, for a Macomb County Public Works Project 8.5 (SIC Code Water, sewer, and utility lines 1623) business. To do this, DTE Energy must construct a "Line Extension" shown on Attachment A, DTE Energy electrical layout No. 654400858 dated 06/17/2022 (which is part of this Agreement). Under Michigan Public Service Commission rules, DTE Energy is permitted to require payment before constructing the Line Extension.

DTE Energy and Customer agree to the following terms:

See details of this contract under the Terms and Conditions section

Payment Breakdown - There are standard (fixed and variable) costs involved each time construction of a System is planned. DTE Energy calculates standard costs, which are divided into two categories:

A) Non-Refundable Costs and B) Refundable Construction Advance. If required, additional costs for upgrading the system to accommodate the new load of the customer are included as: C) System Work.

 A. Non-Refundable Costs 1. 175 trench feet x \$4.30 2. 75 transformer kVA x \$7.50 3. Acquiring Permits/Rights-of-Way 4. Underground vs. Overhead Costs for Perime 5. Winter Construction Costs 0 feet x \$1.00 6. Unusual Construction Costs 7. Total Non-Refundable Costs 	eter/Offsite Extensions	\$ \$ \$ \$ \$ \$ \$	752.50 562.50 0.00 0.00 0.00 0.00	\$	1,315.00
 B. Refundable Construction Advance 1. Estimated Cost of Construction 2. Non-Refundable Contribution 3. Standard Allowance (2 year Distribution Tari (Note: See Attachment C if this project involves more than one customer to be immediately served upon completion of this extension.) 4. Total Refundable Construction Advance 	ff Credit) Version 5	\$ \$ \$	21,858.90 (1,315.00) (418.84)	\$	20,125.06
C. System Work 1. System Modification 2. Remaining Standard Allowance 3. Total System Work Total Payment Due		\$ \$		\$	0.00 21,440.06
DTE Energy:(sign) Ronarro L Cleveland /s/ Ronarro L Cleveland	_ Title:Superviso	r		Da	ate: <u>6-17-2022</u>
Customer:(sign)	_(print)			Da	ate:
(sign)	_(print)8			Da	ate:

06/2012 W.O. 65440088 Page 1 of 3

Terms and Conditions

Line Extension Agreement for Commercial or Industrial Customers

- MPSC Rules This Agreement is subject to the Michigan Public Services Commission ("MPSC") Rules, including but not limited to, Rule
 C6.1, "Extension of Service", Rule C6.2, "Overhead Extension Policy", Rule C6.3, "Underground Distribution Systems" and if applicable C6.4
 "Underground Service Connections" which are incorporated herein by reference.
- 2. Underground Installation DTE Energy or one of its contractors shall install the underground electric service and, if applicable, the meter and transformer, referred to herein, collectively, as (the "Work"). DTE Energy will only install electric service and is not responsible for any other utility service including, but not limited to, cable television, and telephone or internet service. Customer shall contact those companies responsible for installation of services other than electrical service.
- 3. Customer Obligations Customer agrees to provide the following on Customer's property:
 - a. all necessary trenching, backfilling, conduits, and manholes, and
 - b. suitable space and necessary foundations for pad-mounted transformers, primary switching equipment and all other above-grade equipment. If a Certificate of Grade is required, then Customer shall not make any changes in the ground surface elevation of more than the limits prescribed in the Certificate of Grade unless DTE Energy has consented in writing.

4. Customer Staking Requirements

a. Customer shall visually identify, by either exposing or clearly staking through the use of flags or other appropriate identification device, all private underground property, including but not limited to:

a. private electrical linesb. sprinkler systemsj. geothermal systems

c. invisible fences k. private water mains and lines

d. swimming pool hardwaree. septic tanks and fieldsm. privately owned gas

f. fiber optic lines n. propane and petroleum lines

g. security systems o. any other underground equipment not previously listed.

h. heated sidewalk and driveway equipment

- b. If Customer refuses the route suggested by DTE Energy for the Work and requests an alternative route, which is mutually agreed to by Customer and DTE Energy, Customer shall stake the alternative route as provided in paragraph 4(a) above.
- c. If Customer fails to clearly stake all private underground property, then Customer releases DTE Energy from any and all liability for property damage related to the installation, operation or maintenance of the Work, including, but not limited to, loss of trees, shrubs or other landscape.
- **5. Damage to the Work -** If Customer, its contractors, agents, and/or employees cause damage to the Work, then Customer shall reimburse DTE Energy for all costs related to damage to the installation, operation or maintenance of the Work.
- 6. Total Payment By executing this Agreement, Customer agrees to pay DTE Energy the "Total Payment" calculated on page 1 of this Agreement. Total Payment consists of:
 - a. Standard Allowance The Standard Allowance amount is calculated as follows: two (2) times the estimated annual revenue anticipated to be collected from Customer. This credit is based on a distribution tariff revenue. This is a standard amount that DTE Energy agrees to contribute to the servicing of a customer. This amount is seen as a credit and deducted from the "Estimated Cost of Construction" total as calculated on page 1 of this Agreement.
 - b. Non-Refundable Costs The Customer agrees to contribute a portion of the cost needed to construct the Work. This amount is included in the "Estimated Cost of Construction" total and is calculated on page 1 of this Agreement. The "Non-Refundable Contribution" is calculated separately (in Payment Breakdown) on page 1 of this Agreement and then deducted from the "Refundable Construction Advance".
 - Refundable Construction Advance The Customer pays an upfront portion of the cost to construct the Work, a portion of which
 may be refundable. (Refer to Refunds section.)
- 7. **Refunds** At the end of the first complete twelve (12) month period immediately following the date of completion of the Work, DTE Energy will compute the actual revenue provided during the previous twelve (12) months. If the actual annual revenue multiplied by two (2) exceeds DTE Energy's estimated annual revenue, this amount will be refunded to the original Customer. Refunds will also be paid for additional new customers directly connected to the financed Work during the refund period and calculated as follows: the amount of any such Refund shall be equal to two (2) times the actual annual revenue or \$500.00 (whichever is greater) for each customer who is subsequently connected directly to the Work financed by the original Customer. Directly connected commercial and industrial customers are those who do not require payment of a Refundable Construction Advance. The total Refund shall not exceed the total Refundable Construction Advance. DTE Energy will retain any portion of the Refundable Construction Advance that has not been refunded within five (5) years after completion of the Work.

TE- NEW COMMERICAL SERVICE FEES ONLY. Easements - Customer shall provide DTE Energy with a ten (10) foot wide, or wider if required by field conditions, easement for the Work.

- 9. Right-of-Way Before DTE Energy constructs the Work, Customer shall provide DTE Energy, at no cost to DTE Energy, all right-of-way and line clearance permits required for the Work. DTE Energy will assist Customer in this process by giving Customer the appropriate land owner's names, the right-of-way forms for signatures and a sketch of the proposed Work route. If customer cannot obtain the right-of-way, DTE Energy will determine an alternate route, which may result in additional costs to Customer. If an alternate route is required, this agreement shall be cancelled and DTE Energy and Customer may enter into a new Agreement. Any amounts already paid under this Agreement shall be applied to the new Agreement or refunded, less all reasonable costs incurred by DTE Energy, if a new Agreement is not executed.
- 10. Termination prior to Commencement of Work If the Customer fails to complete any obligations under this Agreement within twelve (12) months from the date DTE Energy executes this Agreement, then upon ten (10) days written notice, DTE Energy may cancel this Agreement and a refund may be issued, to the Customer, less all reasonable costs incurred by DTE Energy.
- 11. Failure to Execute Agreement; Changes to Agreement If the Customer fails to execute this Agreement and pay the Total payment due to DTE Energy within six (6) months of the date of this Agreement, then this Agreement shall become null and void. Further, Customer shall not make any changes to this Agreement, including but not limited to handwritten changes or striking any language. In the event Customer makes any changes to this Agreement then this Agreement shall become null and void.
- **12. Damages and Limitation on Liability -** If Customer, its contractors, agents, and/or employees cause damage to the Work, then Customer shall reimburse DTE Energy for all costs related to that damage. DTE Energy reserves the right to retain portions of the Refundable Construction Advance to offset such damages.
 - DTE Energy's sole liability to Customer, its employees, agents, subcontractors and to all other persons arising out of or related to the performance of the Work, whether in contract, under any claims warranty, in tort, or otherwise shall be limited to either DTE Energy repairing or replacing the Work at its own expense or, at DTE Energy's option, refund the money paid for the Work. The foregoing shall be Customer's sole remedy. In no event will DTE Energy or its contractors be liable under this Agreement or under any cause of action relating to the subject matter of this Agreement, whether based on contract, warranty, tort (including negligence), strict liability, indemnity or otherwise, for any incidental or consequential damages including but not limited to loss of use, interest charges, inablity to operate full capacity, lost profits or other similar claims of Customer.
- **13. Set Off -** DTE Energy shall be entitled at any time to set off any sums owing by Customer or any of Customer's affiliated companies with common ownership, to DTE Energy or any of DTE Energy's affiliated companies, against sums payable by DTE Energy.
- 14. Construction Postponement Scheduling of construction shall be done on a mutually agreeable basis to DTE Energy and the Customer. However, if DTE Energy believes that all of the customers on which the Standard Allowance is based, will not be prepared to receive electric service on the expected construction completion date, then DTE Energy may notify Customer in writing of the postponement of the construction start date and delay when electric service will be available to Customer. DTE Energy will begin to construct the Work when all of the customers of the project are prepared to receive electric service on the anticipated date of completion of the Work construction.
- **15. Assignment and Notices -** Customer shall not assign this Agreement without DTE Energy's prior written consent. All notices required by this Agreement must be in writing and sent by U.S. mail or delivered in person to the addresses listed on page 1 of this Agreement.
- **16. Saving Clause -** Each term and condition of this Agreement is deemed to have an independent effect and the invalidity of any partial or whole paragraph or section shall not invalidate the remaining paragraphs or sections. The obligation to perform all of the terms and conditions shall remain in effect regardless of the performance of any invalid term by the other party.
- 17. Governing Law and Jurisdiction This Agreement shall be construed in accordance with the law of the State of Michigan, without regard to conflict of law principals. The parties agree that any action with respect to this Agreement shall be brought in a court of competent jurisdiction located in the State of Michigan and the parties hereby submit themselves to the exclusive jurisdiction and venue of such court for the purpose of such action.
- **18. Entire Agreement -** This Agreement together with the Electrical Service Installation Guide, the DTE Energy Rate Book on file with the MPSC ("Rate Book") which is available at:

www.dteenergy.com/businessCustomers/buildersContractors/electricService/standards.html

and the Commercial and Industrial Customers Requirements, referred to herein, collectively, as (the "Contract Documents") constitutes the entire Agreement between the parties regarding this transaction. Any agreements, negotiations or understanding of the parties prior to or contemporaneous to the date of the Agreement, whether written or oral, are superseded hereby. In the event of a conflict between the Contract Documents, then the Contract Document shall control in the order stated above.

06/2012 W.O. 65440088 Page 3 of 3

DTE- NEW COMMERICAL SERVICE FEES ONLY -COPY

Line Extension Agreement for Commercial or Industrial Customers No. 1448302800



Date: .

"DTE Energy" and "Customer" make this agreement for consideration of the promises in the Agreement.

<u>"DTE Energ</u>y" is:

The DTE Energy Company 43230 Elizabeth Rd Clinton Township, MI 48036 "Customer" is:

Macomb County Public Works
Zach Zechmeister
41001 Grand River Ave
Novi, MI 48375

Background Statement: Customer requests DTE Energy to install a 277/480 volt ac, three phase electric service at 21914 Beconsfield Ave., St. Clair Shores, Michigan in City St. Clair Shores Township, for a Macomb County Public Works Project 8.5 (SIC Code Water, sewer, and utility lines 1623) business. To do this, DTE Energy must construct a "Line Extension" shown on Attachment A, DTE Energy electrical layout No. 654400858 dated 06/17/2022 (which is part of this Agreement). Under Michigan Public Service Commission rules, DTE Energy is permitted to require payment before constructing the Line Extension.

DTE Energy and Customer agree to the following terms:

See details of this contract under the Terms and Conditions section

Payment Breakdown - There are standard (fixed and variable) costs involved each time construction of a System is planned. DTE Energy calculates standard costs, which are divided into two categories:

A) Non-Refundable Costs and B) Refundable Construction Advance. If required, additional costs for upgrading the system to accommodate the new load of the customer are included as: C) System Work.

upgrading the system to accombdate the new load of the customer are in	Ciuue	u as. C) Syster	II VVOIK.
 A. Non-Refundable Costs 1. 175 trench feet x \$4.30 2. 75 transformer kVA x \$7.50 3. Acquiring Permits/Rights-of-Way 4. Underground vs. Overhead Costs for Perimeter/Offsite Extensions 5. Winter Construction Costs 0 feet x \$1.00 6. Unusual Construction Costs 7. Total Non-Refundable Costs 	\$ \$ \$ \$ \$ \$ \$	752.50 562.50 0.00 0.00 0.00 0.00	1,315.00
 B. Refundable Construction Advance 1. Estimated Cost of Construction 2. Non-Refundable Contribution 3. Standard Allowance (2 year Distribution Tariff Credit) Version 5 (Note: See Attachment C if this project involves more than one customer to be immediately served upon completion of this extension.) 4. Total Refundable Construction Advance 	\$ \$ \$	21,858.90 (1,315.00) (418.84)	20,125.06
C. System Work1. System Modification2. Remaining Standard Allowance3. Total System Work	\$	0.00 0.00 \$	0.00
Total Payment Due		\$	21,440.06
DTE Energy:(sign) Ronarro L Cleveland /s/ Title: Supervisor Ronarro L Cleveland	0	DV	_ Date: 6-17-2022
Customer:(sign)(print)	U	100	_ Date:

06/2012 W.O. 65440088 Page 1 of 3

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DTE- NEW COMMERICAL SERVICE FEES ONLY -COPY

Line Extension Agreement for Commercial or Industrial Customers

- 1. MPSC Rules This Agreement is subject to the Michigan Public Services Commission ("MPSC") Rules, including but not limited to, Rule C6.1, "Extension of Service", Rule C6.2, "Overhead Extension Policy", Rule C6.3, "Underground Distribution Systems" and if applicable C6.4 "Underground Service Connections" which are incorporated herein by reference.
- 2. Underground Installation DTE Energy or one of its contractors shall install the underground electric service and, if applicable, the meter and transformer, referred to herein, collectively, as (the "Work"). DTE Energy will only install electric service and is not responsible for any other utility service including, but not limited to, cable television, and telephone or internet service. Customer shall contact those companies responsible for installation of services other than electrical service.
- 3. Customer Obligations Customer agrees to provide the following on Customer's property:
 - a. all necessary trenching, backfilling, conduits, and manholes, and
 - suitable space and necessary foundations for pad-mounted transformers, primary switching equipment and all other above-grade equipment. If a Certificate of Grade is required, then Customer shall not make any changes in the ground surface elevation of more than the limits prescribed in the Certificate of Grade unless DTE Energy has consented in writing.

4. Customer Staking Requirements

- a. Customer shall visually identify, by either exposing or clearly staking through the use of flags or other appropriate identification device, all private underground property, including but not limited to:
 - a. private electrical lines
 - b. sprinkler systems
 - c. invisible fences
 - d. swimming pool hardware

h. heated sidewalk and driveway equipment

- e. septic tanks and fields
- f. fiber optic lines
- g. security systems

- burial sites of pets
- geothermal systems
- k. private water mains and lines
- solar power equipment
- m. privately owned gas
- propane and petroleum lines
- o. any other underground equipment not previously listed.
- b. If Customer refuses the route suggested by DTE Energy for the Work and requests an alternative route, which is mutually agreed to by Customer and DTE Energy, Customer shall stake the alternative route as provided in paragraph 4(a) above.
- c. If Customer fails to clearly stake all private underground property, then Customer releases DTE Energy from any and all liability for property damage related to the installation, operation or maintenance of the Work, including, but not limited to, loss of trees, shrubs or other landscape.
- 5. Damage to the Work If Customer, its contractors, agents, and/or employees cause damage to the Work, then Customer shall reimburse DTE Energy for all costs related to damage to the installation, operation or maintenance of the Work.
- 6. Total Payment By executing this Agreement, Customer agrees to pay DTE Energy the "Total Payment" calculated on page 1 of this Agreement. Total Payment consists of:
 - a. Standard Allowance The Standard Allowance amount is calculated as follows: two (2) times the estimated annual revenue anticipated to be collected from Customer. This credit is based on a distribution tariff revenue. This is a standard amount that DTE Energy agrees to contribute to the servicing of a customer. This amount is seen as a credit and deducted from the "Estimated Cost of Construction" total as calculated on page 1 of this Agreement.
 - b. Non-Refundable Costs The Customer agrees to contribute a portion of the cost needed to construct the Work. This amount is included in the "Estimated Cost of Construction" total and is calculated on page 1 of this Agreement. The "Non-Refundable Contribution" is calculated separately (in Payment Breakdown) on page 1 of this Agreement and then deducted from the "Refundable Construction Advance".
 - c. Refundable Construction Advance The Customer pays an upfront portion of the cost to construct the Work, a portion of which may be refundable. (Refer to Refunds section.)
- 7. Refunds At the end of the first complete twelve (12) month period immediately following the date of completion of the Work, DTE Energy will compute the actual revenue provided during the previous twelve (12) months. If the actual annual revenue multiplied by two (2) exceeds DTE Energy's estimated annual revenue, this amount will be refunded to the original Customer. Refunds will also be paid for additional new customers directly connected to the financed Work during the refund period and calculated as follows: the amount of any such Refund shall be equal to two (2) times the actual annual revenue or \$500.00 (whichever is greater) for each customer who is subsequently connected directly to the Work financed by the original Customer. Directly connected commercial and industrial customers are those who do not require payment of a Refundable Construction Advance. The total Refund shall not exceed the total Refundable Construction Advance. DTE Energy will retain any portion of the Refundable Construction Advance that has not been refunded within five (5) years after completion of the Work.

TE- NEW COMMERICAL SERVICE FEES ONLY - COPY

8. Easements - Customer shall provide DTE Energy with a ten (10) foot wide, or wider if required by field conditions, easement for the Work.

- 9. Right-of-Way Before DTE Energy constructs the Work, Customer shall provide DTE Energy, at no cost to DTE Energy, all right-of-way and line clearance permits required for the Work. DTE Energy will assist Customer in this process by giving Customer the appropriate land owner's names, the right-of-way forms for signatures and a sketch of the proposed Work route. If customer cannot obtain the right-of-way, DTE Energy will determine an alternate route, which may result in additional costs to Customer. If an alternate route is required, this agreement shall be cancelled and DTE Energy and Customer may enter into a new Agreement. Any amounts already paid under this Agreement shall be applied to the new Agreement or refunded, less all reasonable costs incurred by DTE Energy, if a new Agreement is not executed.
- **10. Termination prior to Commencement of Work** If the Customer fails to complete any obligations under this Agreement within twelve (12) months from the date DTE Energy executes this Agreement, then upon ten (10) days written notice, DTE Energy may cancel this Agreement and a refund may be issued, to the Customer, less all reasonable costs incurred by DTE Energy.
- 11. Failure to Execute Agreement; Changes to Agreement If the Customer fails to execute this Agreement and pay the Total payment due to DTE Energy within six (6) months of the date of this Agreement, then this Agreement shall become null and void. Further, Customer shall not make any changes to this Agreement, including but not limited to handwritten changes or striking any language. In the event Customer makes any changes to this Agreement then this Agreement shall become null and void.
- 12. Damages and Limitation on Liability If Customer, its contractors, agents, and/or employees cause damage to the Work, then Customer shall reimburse DTE Energy for all costs related to that damage. DTE Energy reserves the right to retain portions of the Refundable Construction Advance to offset such damages.
 - DTE Energy's sole liability to Customer, its employees, agents, subcontractors and to all other persons arising out of or related to the performance of the Work, whether in contract, under any claims warranty, in tort, or otherwise shall be limited to either DTE Energy repairing or replacing the Work at its own expense or, at DTE Energy's option, refund the money paid for the Work. The foregoing shall be Customer's sole remedy. In no event will DTE Energy or its contractors be liable under this Agreement or under any cause of action relating to the subject matter of this Agreement, whether based on contract, warranty, tort (including negligence), strict liability, indemnity or otherwise, for any incidental or consequential damages including but not limited to loss of use, interest charges, inablity to operate full capacity, lost profits or other similar claims of Customer.
- **13. Set Off -** DTE Energy shall be entitled at any time to set off any sums owing by Customer or any of Customer's affiliated companies with common ownership, to DTE Energy or any of DTE Energy's affiliated companies, against sums payable by DTE Energy.
- **14. Construction Postponement** Scheduling of construction shall be done on a mutually agreeable basis to DTE Energy and the Customer. However, if DTE Energy believes that all of the customers on which the Standard Allowance is based, will not be prepared to receive electric service on the expected construction completion date, then DTE Energy may notify Customer in writing of the postponement of the construction start date and delay when electric service will be available to Customer. DTE Energy will begin to construct the Work when all of the customers of the project are prepared to receive electric service on the anticipated date of completion of the Work construction.
- **15. Assignment and Notices -** Customer shall not assign this Agreement without DTE Energy's prior written consent. All notices required by this Agreement must be in writing and sent by U.S. mail or delivered in person to the addresses listed on page 1 of this Agreement.
- **16. Saving Clause -** Each term and condition of this Agreement is deemed to have an independent effect and the invalidity of any partial or whole paragraph or section shall not invalidate the remaining paragraphs or sections. The obligation to perform all of the terms and conditions shall remain in effect regardless of the performance of any invalid term by the other party.
- 17. Governing Law and Jurisdiction This Agreement shall be construed in accordance with the law of the State of Michigan, without regard to conflict of law principals. The parties agree that any action with respect to this Agreement shall be brought in a court of competent jurisdiction located in the State of Michigan and the parties hereby submit themselves to the exclusive jurisdiction and venue of such court for the purpose of such action.
- **18. Entire Agreement -** This Agreement together with the Electrical Service Installation Guide, the DTE Energy Rate Book on file with the MPSC ("Rate Book") which is available at:

www. dteenergy. com/business Customers/builders Contractors/electric Service/standards. html

and the Commercial and Industrial Customers Requirements, referred to herein, collectively, as (the "Contract Documents") constitutes the entire Agreement between the parties regarding this transaction. Any agreements, negotiations or understanding of the parties prior to or contemporaneous to the date of the Agreement, whether written or oral, are superseded hereby. In the event of a conflict between the Contract Documents, then the Contract Document shall control in the order stated above.



06/2012 W.O. 65440088 Page 3 of 3



Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Certificate of Grade

W.O. 65440088

Subject: Macomb County Public Works Project 8.5

I/We, the undersigned, hereby certify to the DTE Energy Company that all grading in utility easements and/or the routes of the underground facilities for the above subject development have been completed within four (4) inches of the final grade.

I/We, further agree that a stake will be placed at the location for each piece of above grade equipment, indicating the final grade to be achieved. A copy of the DTE Energy underground construction Drawing No. 654400858 for this development is in our possession and will be used for this purpose.

Approval:		
Name and Date (Print)		Name and Date (Print)
Signature and Date		Signature and Date
Title and Company (Print)	44	Title and Company (Print)



Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Certificate of Grade

W.O. 65440088

Subject: Macomb County Public Works Project 8.5

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Approval:		
Name and Date (Print)		Name and Date (Print)
Signature and Date		Signature and Date
Title and Company (Print)	45	Title and Company (Print)



Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Certificate of Grade

W.O. 65440088

Subject: Macomb County Public Works Project 8.5

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Approval:		
Name and Date (Print)		Name and Date (Print)
Signature and Date	RC	Signature and Date
Title and Company (Print)	46	Title and Company (Print)

Attachment C - Additional Customers



Agreement Number 1448302800

<u>Name</u>		<u>Addres</u>	<u>s</u>	SIC Code	Estimated Annual Revenue x 2
				Total	
Planner <u>Stev</u>	en Eriquez		W.O.	65440088	
Area Leader Rona	arro L Cleveland		Date	Jun 17, 2022	
Contribution MIK:			E065440088	000	0000000
	Source Dept. Code	Resource Type	Subproject Number	Acti	vity Occurence
Advance MIK:	Source Dept. Code	Resource Type	1448302800 Subproject Number	Sta	ndard Activity
	_ 55 55 _ 6pt. 6546		5 a.s.p. 5,5 st 11 a.11 b.51	310	



Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Regarding: Beaconsfield Ave & Oak Ave., Eastpointe St. Clair Shores, Erin Township

Enclosed are two (2) copies of the Temporary or Permanent Line Relocation Agreement for your signature. The payment for this work is \$173,000.00 for a Temporary Relocation based on: DTE will Temporary relocate the existing Lead DC 2465 ERIN onto the Parking Lot of Beaconsfield Baptist Church After the Macomb Public Works Project is completed. Overhead Lead with of DC 2465 ERIN will be relocated on the Westside of Beaconsfield Ave South of Oak Ave. In Road Right of Way-Green Belt Area between the Sidewalk & Curb. Customer is responsible to aid DTE in acquiring easements from property owner were DTE facilities must be installed in order to relocate Overhead Lead. In

Please return the signed document to me with a check made payable to DTE Energy. To ensure proper credit, the contract number should be indicated on your remitted check. Keep the "Customer Copy" document for your records. When we receive the signed document and your check, we will proceed to schedule the work.

If you have any questions regarding this job, please feel free to contact me at the phone number or e-mail address indicated below.

Sincerely,

Steven Eriquez

Planner 586.783.2024

steven.eriquez@dteenergy.com

enclosures:

Two copies of the Temporary or Permanent Line Relocation Agreement

DTE- TEMP RELOCATION WORK

Agreement for Temporary or Permanent Line Relocation No. 65441273



"DTE Energy" and "Customer" make this agreement for consideration of the promises in the Agreement.

"DTE Energy" is:
The DTE Energy Company

43230 Elizabeth Rd Clinton Township, MI 48036 "Customer" is:

Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Background Statement: Customer agrees to reimburse DTE Energy for temporary relocation of equipment in the vicinity of Beaconsfield Ave & Oak Ave., Eastpointe St. Clair Shores. To do this, DTE Energy requires that payment be made in the amount indicated below. Under Michigan Public Service Commission rules, DTE Energy is permitted to require payment before performing this work.

DTE Energy and Customer agree to the following terms: See details of this contract under the Terms and Conditions section

Payment for the temporary relocation is \$173,000.00.

The type of work to be performed:

DTE will Temporary relocate the existing Lead DC 2465 ERIN onto the Parking Lot of Beaconsfield Baptist Church After the Macomb Public Works Project is completed. Overhead Lead with of DC 2465 ERIN will be relocated on the Westside of Beaconsfield Ave South of Oak Ave. In Road Right of Way-Green Belt Area between the Sidewalk & Curb. Customer is responsible to aid DTE in acquiring easements from property owner were DTE facilities must be installed in order to relocate Overhead Lead. In

In return for the above reimbursement payment, The DTE Energy Company agrees to perform the requested work, providing all necessary permits and rights-of-way can be secured. This job will not be scheduled until DTE Energy receives full payment for the above work. The price quoted on this agreement shall be in effect for a period of six (6) months from the date hereof.

Notwithstanding anything herein to the contrary, the installation, ownership, and maintenance of electric services and the rates, fees, and charges to be made shall be subject to and in accordance with the orders and rules and regulations adopted and approved from time to time by the Michigan Public Service Commission. The above charge covers only the removal/relocation of **DTE Energy owned** equipment.

It is the customer's responsibility to contact other companies (usually telephone, cable TV) that have equipment on the pole (or in the trench) to determine whether additional charges may incur from this move. Payment for these charges is the customer's responsibility and will be made by separate agreement between the customer and the other companies.

DTE Energy:(sign)	Ronarro L Cleveland /s/	_ Title:	Supervisor	Date: 6-23-2022
	Ronarro L Cleveland	_		
Customer:(sign) _		_(print)		Date:
(sign) _		_(print)		Date:
(0 / -		49		

06/2012 W.O. 65441273 Page 1 of 3

DTE- TEMP RELOCATION WORK and Conditions

Agreement for Temporary or Permanent Line Relocation

- 1. MPSC Rules This Agreement is subject to the Michigan Public Services Commission ("MPSC") Rules, including but not limited to, Rule C6.1, "Extension of Service"; Rule C6.2, "Overhead Extension Policy"; Rule C6.3, "Underground Distribution Systems"; and Rule C6.5 "Miscellaneous Customer Requests", which are incorporated herein by reference.
- 2. Description of Work DTE Energy or one of its contractors shall install the underground or overhead conductors and any associated overhead or underground equipment required for the line relocation, (collectively, the "Work"). DTE Energy will only install electric service and is not responsible for any other utility service including, but not limited to, cable television, or other communication services. Customer shall contact those companies responsible for the installation of services other than electrical service.
- 3. Customer Staking Requirements
 - **a.** Prior to commencement of the Work, Customer shall visually identify, by either exposing or clearly staking through the use of flags or other appropriate identification device, all private underground property, including but not limited to:

a. private electrical lines

b. sprinkler systems

c. invisible fences

d. swimming pool hardware

e. septic tanks and fields

f. fiber optic lines

g. security systems

h. heated sidewalk and driveway equipment

i. burial sites of pets

j. geothermal systems

k. private water mains and lines

solar power equipment

m. privately owned gas

n. propane and petroleum lines

o. any other underground equipment not previously listed.

- b. If Customer refuses the route suggested by DTE Energy for the Work and requests an alternative route, which is mutually agreed to by Customer and DTE Energy, Customer shall stake the alternative route as provided in paragraph 3(a) above.
- c. If Customer fails to clearly stake all private underground property, then Customer releases DTE Energy from any and all liability for property damage related to the installation, operation or maintenance of the Work, including, but not limited to, loss of trees, shrubs or other landscape.
- **4. Total Payment -** By executing this Agreement, Customer agrees to pay DTE Energy the "Total Payment" calculated on page 1 of this Agreement.
- 5. Termination prior to Commencement of Work If Customer fails to complete any obligations under this Agreement within six (6) months from the date DTE Energy receives full payment or the Total payment, then, upon written notice, DTE Energy may cancel this Agreement and a refund may be issued to Customer, less all reasonable costs incurred by DTE Energy.
- 6. Failure to Execute Agreement; Changes to Agreement If the Customer fails to execute this Agreement and pay the Total payment due to DTE Energy within six (6) months of the date of this Agreement, then this Agreement shall become null and void. Further, Customer shall not make any changes to this Agreement, including but not limited to handwritten changes or striking any language. In the event Customer makes any changes to this Agreement without the specific written consent of DTE Energy, then this Agreement shall become null and void.
- 7. Damages and Limitation on Liability If Customer, its contractors, agents, and/or employees cause damage to the Work, then Customer shall reimburse DTE Energy for all costs related to that damage.
 - DTE Energy's sole liability to Customer, its employees, agents, subcontractors and to all other persons arising out of or related to the performance of the Work, whether in contract, under any claims warranty, in tort, or otherwise shall be limited to either DTE Energy repairing or replacing the Work at its own expense or, at DTE Energy's option, refund the money paid for the Work. The foregoing shall be Customer's sole remedy. In no event will DTE Energy or its contractors be liable under this Agreement or under any cause of action relating to the subject matter of this Agreement, whether based on contract, warranty, tort (including negligence), strict liability, indemnity or otherwise, for any incidental or consequential damages including but not limited to loss of use, interest charges, inablity to operate full capacity, lost profits or other similar claims of Customer.
- 8. Set Off DTE Energy shall be entitled at any time to set off any sums owing by Customer or any of Customer's affiliated companies with common ownership, to DTE Energy or any of DTE Energy's affiliated companies, against sums payable by DTE Energy.
- 9. Assignment and Notices Customer shall not assign this Agreement without DTE Energy's prior written consent. All notices required by this Agreement must be in writing and sent by U.S. mail or delivered in person to the addresses listed on page 1 of this Agreement.
- **10. Saving Clause -** Each term and condition of this Agreement is deemed to have an independent effect and the invalidity of any partial or whole paragraph or section shall not invalidate the remaining paragraphs or sections. The obligation to perform all of the terms and conditions shall remain in effect regardless of the performance of any invalid term by the other party.
- 11. Governing Law and Jurisdiction This Agreement shall be construed in accordance with the law of the State of Michigan, without regard to conflict of law principals. The parties agree that any action with respect to this Agreement shall be brought in a court of competent

DTjerisdiction of the state of Michigan and the parties hereby submit themselves to the exclusive jurisdiction and venue of such court for the purpose of such action.

12. Entire Agreement - This Agreement together with the DTE Energy Rate Book on file with the MPSC, the Electrical Service Installation Guide, which is available at:

www.dteenergy.com/businessCustomers/buildersContractors/electricService/standards.html

and, if applicable, the Certificate of Grade (referred to herein collectively, as the "Contract Documents") constitutes the entire Agreement between the parties regarding this transaction. Any agreements, negotiations or understanding of the parties prior to or contemporaneous to the date of the Agreement, whether written or oral, are superseded hereby. In the event of a conflict between the Contract Documents, then the Contract Document shall control in the order stated above.

06/2012 W.O. 65441273 Page 3 of 3

DTE- TEMP RELOCATION WORK - COPY

Agreement for

Temporary or Permanent Line Relocation

No. 65441273

"DTE Energy" and "Customer" make this agreement for consideration of the promises in the Agreement.

"DTE Energy" is:

The DTE Energy Company 43230 Elizabeth Rd Clinton Township, MI 48036 "Customer" is:

Macomb County Public Works Zach Zechmeister 41001 Grand River Ave Novi, MI 48375

Background Statement: Customer agrees to reimburse DTE Energy for temporary relocation of equipment in the vicinity of Beaconsfield Ave & Oak Ave., Eastpointe St. Clair Shores. To do this, DTE Energy requires that payment be made in the amount indicated below. Under Michigan Public Service Commission rules, DTE Energy is permitted to require payment before performing this work.

DTE Energy and Customer agree to the following terms: See details of this contract under the Terms and Conditions section

Payment for the temporary relocation is \$173,000.00.

The type of work to be performed:

DTE will Temporary relocate the existing Lead DC 2465 ERIN onto the Parking Lot of Beaconsfield Baptist Church After the Macomb Public Works Project is completed. Overhead Lead with of DC 2465 ERIN will be relocated on the Westside of Beaconsfield Ave South of Oak Ave. In Road Right of Way-Green Belt Area between the Sidewalk & Curb. Customer is responsible to aid DTE in acquiring easements from property owner were DTE facilities must be installed in order to relocate Overhead Lead. In

In return for the above reimbursement payment, The DTE Energy Company agrees to perform the requested work, providing all necessary permits and rights-of-way can be secured. This job will not be scheduled until DTE Energy receives full payment for the above work. The price quoted on this agreement shall be in effect for a period of six (6) months from the date hereof.

Notwithstanding anything herein to the contrary, the installation, ownership, and maintenance of electric services and the rates, fees, and charges to be made shall be subject to and in accordance with the orders and rules and regulations adopted and approved from time to time by the Michigan Public Service Commission. The above charge covers only the removal/relocation of **DTE Energy owned** equipment.

It is the customer's responsibility to contact other companies (usually telephone, cable TV) that have equipment on the pole (or in the trench) to determine whether additional charges may incur from this move. Payment for these charges is the customer's responsibility and will be made by separate agreement between the customer and the other companies.

DTE Energy:(sign)	Ronarro L Cleveland /s/	_ Title: _	Supervisor	Date: 6-23-2022
	Ronarro L Cleveland	N 10 10 10	THE R. P. LEWIS CO., LANSING	
Customer:(sign) _	CHST	_(print)_	D CODY	Date:
(sign) _	0001	_(print)_	IIVVII	Date:
,		52		

06/2012 W.O. 65441273 Page 1 of 3

DTE- TEMP RELOCATION WORK - COPY Terms and Conditions

Agreement for Temporary or Permanent Line Relocation

- 1. MPSC Rules This Agreement is subject to the Michigan Public Services Commission ("MPSC") Rules, including but not limited to, Rule C6.1, "Extension of Service"; Rule C6.2, "Overhead Extension Policy"; Rule C6.3, "Underground Distribution Systems"; and Rule C6.5 "Miscellaneous Customer Requests", which are incorporated herein by reference.
- 2. Description of Work DTE Energy or one of its contractors shall install the underground or overhead conductors and any associated overhead or underground equipment required for the line relocation, (collectively, the "Work"). DTE Energy will only install electric service and is not responsible for any other utility service including, but not limited to, cable television, or other communication services. Customer shall contact those companies responsible for the installation of services other than electrical service.
- 3. Customer Staking Requirements
 - **a.** Prior to commencement of the Work, Customer shall visually identify, by either exposing or clearly staking through the use of flags or other appropriate identification device, all private underground property, including but not limited to:

a. private electrical lines

b. sprinkler systems

c. invisible fences

d. swimming pool hardware

e. septic tanks and fields

f. fiber optic lines

g. security systems

h. heated sidewalk and driveway equipment

- i. burial sites of pets
- j. geothermal systems
- k. private water mains and lines
- solar power equipment
- m. privately owned gas
- n. propane and petroleum lines
- o. any other underground equipment not previously listed.
- b. If Customer refuses the route suggested by DTE Energy for the Work and requests an alternative route, which is mutually agreed to by Customer and DTE Energy, Customer shall stake the alternative route as provided in paragraph 3(a) above.
- c. If Customer fails to clearly stake all private underground property, then Customer releases DTE Energy from any and all liability for property damage related to the installation, operation or maintenance of the Work, including, but not limited to, loss of trees, shrubs or other landscape.
- **4. Total Payment -** By executing this Agreement, Customer agrees to pay DTE Energy the "Total Payment" calculated on page 1 of this Agreement.
- 5. Termination prior to Commencement of Work If Customer fails to complete any obligations under this Agreement within six (6) months from the date DTE Energy receives full payment or the Total payment, then, upon written notice, DTE Energy may cancel this Agreement and a refund may be issued to Customer, less all reasonable costs incurred by DTE Energy.
- 6. Failure to Execute Agreement; Changes to Agreement If the Customer fails to execute this Agreement and pay the Total payment due to DTE Energy within six (6) months of the date of this Agreement, then this Agreement shall become null and void. Further, Customer shall not make any changes to this Agreement, including but not limited to handwritten changes or striking any language. In the event Customer makes any changes to this Agreement without the specific written consent of DTE Energy, then this Agreement shall become null and void.
- 7. Damages and Limitation on Liability If Customer, its contractors, agents, and/or employees cause damage to the Work, then Customer shall reimburse DTE Energy for all costs related to that damage.
 - DTE Energy's sole liability to Customer, its employees, agents, subcontractors and to all other persons arising out of or related to the performance of the Work, whether in contract, under any claims warranty, in tort, or otherwise shall be limited to either DTE Energy repairing or replacing the Work at its own expense or, at DTE Energy's option, refund the money paid for the Work. The foregoing shall be Customer's sole remedy. In no event will DTE Energy or its contractors be liable under this Agreement or under any cause of action relating to the subject matter of this Agreement, whether based on contract, warranty, tort (including negligence), strict liability, indemnity or otherwise, for any incidental or consequential damages including but not limited to loss of use, interest charges, inablity to operate full capacity, lost profits or other similar claims of Customer.
- 8. Set Off DTE Energy shall be entitled at any time to set off any sums owing by Customer or any of Customer's affiliated companies with common ownership, to DTE Energy or any of DTE Energy's affiliated companies, against sums payable by DTE Energy.
- 9. Assignment and Notices Customer shall not assign this Agreement without DTE Energy's prior written consent. All notices required by this Agreement must be in writing and sent by U.S. mail or delivered in person to the addresses listed on page 1 of this Agreement.
- 10. Saving Clause Each term and condition of this Agreement is deemed to have an independent effect and the invalidity of any partial or whole paragraph or section shall not invalidate the remaining paragraphs or sections. The obligation to perform all of the terms and conditions shall remain in effect regardless of the performance of any invalid term by the other party.
- 11. Governing Law and Jurisdiction This Agreement shall be construed in accordance with the law of the State of Michigan, without regard to conflict of law principals. The parties agree that any action with respect to this Agreement shall be brought in a court of competent

DTE-TIME RELOCATION WHO Parties Thereby submit themselves to the exclusive jurisdiction and venue of such court for the purpose of such action.

12. Entire Agreement - This Agreement together with the DTE Energy Rate Book on file with the MPSC, the Electrical Service Installation Guide, which is available at:

www.dteenergy.com/businessCustomers/buildersContractors/electricService/standards.html

and, if applicable, the Certificate of Grade (referred to herein collectively, as the "Contract Documents") constitutes the entire Agreement between the parties regarding this transaction. Any agreements, negotiations or understanding of the parties prior to or contemporaneous to the date of the Agreement, whether written or oral, are superseded hereby. In the event of a conflict between the Contract Documents, then the Contract Document shall control in the order stated above.



06/2012 W.O. 65441273 Page 3 of 3





Removal and Installation of Streetlight Equipment Billing Agreement

I/We, the undersigned, hereby agree to reimburse DTE the sum of $\frac{$8,470.42}{}$. This reimbursement will be made prior to the actual start of construction.

In return for the above, DTE agrees to remove one streetlight pole and associated equipment near the intersection of Beaconsfield and Oak in Eastpointe, and refeed six other streetlights north of that intersection.

Requested work to be performed on Work Order 65770056. When direct construction costs exceed those estimated due to unforeseen difficulties, the Customer will be invoiced for the difference.

Notwithstanding anything herein to the contrary, the installation, ownership and maintenance of electric services and the rates, fees and charges to be made shall be subject to and in accordance with the orders, rules and regulations adopted and approved by the Michigan Public Service Commission.

Please sign and return this agreement along with payment. You will be mailed back a copy of this agreement after the document has been counter-signed by DTE supervision.

Accepted (Customer)	Accepted (DTE)
Neiss Construction on behalf of Macomb County Pub	lic Works`
Signature Journey	Signature
Name Zachary Zechmeister	Name
	·
Date <u>7/18/2022</u>	Date

WEISS CONSTRUCTION CO. LLC



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Monday, May 16, 2022

Mr. Timothy Ard Construction Manager Tetra Tech 710 Avis Drive, Suite 100 Ann Arbor, MI 48108 Via- Electronic Delivery (Email)

Tetra Tech 200-16347-19001: Macomb WWS-2021-006; Weiss WC22-01

<u>Subject: Formal Notice - Floecksmuhle GmbH ISG Package - Cost Increase - CLAIM</u>

Dear Mr. Ard-

Please consider this letter formal notice pursuant to paragraph 18.01 A.3 of the Prime Contract that the sole supplier for the Inflatable Sewer Gate Package (ISG) – "Floecksmuhle GmbH" has notified Weiss that their proposal for the base bid work has been revised to reflect price escalation increases. Weiss has fully executed a purchase order to Floecksmuhle for a revised amount to maintain forward progress.

Weiss first notified the Owner/Engineer of this cost increase on 4/13/2022. Weiss first became aware of this price change on 4/7/2022 after a contract negotiation meeting lasting over 3 hours with Floecksmuhle. Weiss considered this a request for change order under paragraph 11.01 1 C (submitted within the specified 30 day timeline).

On 4/18/2022, the Engineer responded to Weiss' letter stating the Owner will not accept added cost for the equipment. The basis for this argument is such that Weiss did not issue a PO timely to Floecksmuhle.

Weiss stands firm that Floecksmuhle gave zero indication that this increase was forthcoming. Weiss issued Floecksmuhle an intent to award via email on 12/28/2021, including the Owner's "Notice to Award". Floecksmuhle acknowledged receipt of this notice and its intent on 12/30/2021. In other words, Floecksmuhle knew, beyond a reasonable doubt, that it would receive the Contract for the ISG package. Weiss was in contact in the weeks and months following including notifying Floecksmuhle that the Owner had issued the NTP and meetings for the Contract had started.

Furthermore, Floecksmuhle's first proposal sent to all bidders states:

"Our offer is calculated on a current cost basis, excluding VAT, and is valid for orders placed by 31/01/2022 and complete Equipment latest delivery date by 1/10/2022. It will be necessary to request an extension and to negotiate new pricing and delivery terms for orders placed after the "order place by date"

In summary, an order must be placed by 1/31/2022. Order placed means the Contract executed, shop drawings reviewed, and components released for fabrication for a 10/1/2022 delivery.

As you are also aware, Weiss is required by the order of the Prime Contract to include flowdown documentation with subcontractors/suppliers amongst other requirements to ensure compliance with the Contract documents. Floecksmuhle's Purchase Order required substantial explanation of these requirements, specifically in regard to quality control, performance, training, warranty, integration, as

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: Brian Rubel, David Weiss

WEISS CONSTRUCTION CO. LLC



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Zachnout

Monday, May 16, 2022

well as commercial terms regarding payment and risk. Furthermore, a substantial difference of contractual norms required extensive negotiation.

Over the time period in question by the Engineer, a substantial world changing event (the 2022 Russian Invasion of Ukraine) accelerated. The effects of said event are certainly felt more seriously abroad in Europe where most of the ISG system is produced by various sub-suppliers as Floecksmuhle denotes in its letter (and sub supplier letters).

Notwithstanding, Weiss has executed a Purchase Order on agreeable terms with Floecksmuhle on 4/27/2022. Floecksmuhle decreased the price increase to a lump sum of \$123,500 (decreased from \$141,000), as incorporated into the Purchase Order.

<u>Please consider this letter official notice of Claim Pursuant to Article 12 of the Contract</u>. This letter has been issued within 30 days from Tetra Tech's rejection letter dated 4/18/2022 of our initial notice and thus the claim shall enter further review. In the event mutual agreeable negotiations do not proceed (or no response is received within 90 days), the Contract defines a process for denial of claims. Weiss will track this timeline accordingly.

Sincerely,

Zachary Zechmeister Project Manager

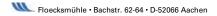
Attachments: Floecksmuhle Proposal (original), Floecksmuhle Letter (including sub-supplier backup)

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: Brian Rubel, David Weiss





Weiss Construction Co., LLC 41001 Grand River Ave. Novi, MI 48375 Bachstr. 62-64 D-52066 Aachen

Telefon: +49 241/94986 6
Telefax: +49 241/94986-12

Email: mareike.kessels@floecksmuehle.com

Internet: www.floecksmuehle.com

 Ihre Nachricht vom
 unser Zeichen
 Durchwahl
 Datum

 -32
 22.04.2022

770 Beaconsfield: notification of price increase due to additional costs.

Dear Mr. Mulville,

As you are probably experiencing yourself, material and energy costs are currently rising considerably, which have resulted in cost and price increases for us and our suppliers.

In the case of the ISG Beaconsfield gate, the most recent offers from our suppliers show a significant price increase when compared to our offer of November 2021. These increases look as follows:

Bladder +12%
 Fixing System +40%
 Control System +5%
 Transport +20%

Letters by our suppliers can be found attached to this letter to substantiate the increases.

Based on these increases, we cannot maintain the price level of our November 2021 offer that expired on 31st January 2022. We must therefore make the following pricing adjustments:

	Nov. 2021	April 2022
ISG Package – Material and Equip-	\$ 898,000	\$1,021,500
ment		
Installation Advisory Services	\$ 42,136	\$ 42,136

The offer validity of our suppliers is currently only a few days, which means that we will need your acceptance by **27.04.2022** at the latest.

We are naturally very sorry to have to send you such a communication, given that it is not our normal way of conducting business but at the same time we are sure you understand things are not normal at the moment and external factors are forcing us to take this step.



If for whatever reason prices are shown to dramatically decrease, we agree to lower our prices accordingly to meet such a change.

Further to you informing us that you will have to put in a request with the owner for a price adjustment, we remain at your disposal if additional information is needed to support you. We shall do our best to supply such information upon request.

Yours sincerely,

Floecksmühle Energietechnik GmbH

April 19, 2022

Norbert Kessels Floecksmühle Energietechnik GmbH Bachstrasse 62-64 D-52066 Aachen Germany

Dear Mr. Kessels:

We regret to inform you that the prices we quoted to you in November 2021 for control equipment must be increased by 5.06%. This price increase is based on cost increases from our suppliers, as a consequence of ongoing global supply chain issues. The 5.06% has been added directly to the price of the equipment with no additional margins.

We apologise in advance for any inconvenience that this may cause. Unfortunately, this situation is beyond our control, and we are forced to take this step.

Regards,

Mark S. Rapf, P.E.

Mark S. Rapf



Your letter from:

Our remark:

TERS

Contact person/phone: Sava Terova

Velké Poříčí:

20th April 2022

Subject:

ISG membrane price increase

Dear Mrs. Kessels

We thank for you inquiry of ISG membrane, unfortunately we have to inform you that our offer from November 2021 is no longer valid.

From the reason of the EPDM, other raw material and energy price increase the final membrane product price is by 12 % higher. This price increase is valid till the end of April. Currently we are expecting further price increase of raw material and components in May, but we are unable to specify even the estimated percentage of such growth.

Please be informed that the EPDM material is limited on the market, therefore delivery time may be longer too. To avoid any delay, please send us your order as soon as possible.

Don't hesitate to contact us if you have any questions.

Best regards

Sáva Térová

Head of Sales and Logistics Bags & Tanks

Rubena, s.r.o

®Rubena

Floecksmühle Energietechnik GmbH

Attn.: Mr. Norbert Kessels

Rubena, s.r.o. Českých bratil 338, 547 01 Náchod IČ: 09725351, DIČ: Cz09725351 Bags & Tanks / Vaky & nádrže - 02 hodská 449, 549 32 Velké PNFC

Rubena, s.r.o.

Českých Bratří 338, 547 01 Náchod

Plant: Náchodská 449, 547 32 Velké Poříčí, CZ

Date of Incorporation: Section C, File 46769, the Regional Court 61 Hradec Králové

IČ: 09725351 DIČ: CZ09725351

GIESSEREI

für Stahlguss, hochlegierte Stähle und Sonderlegierungen



FONDERIE D'ACIERS

moulés, d'aciers hautement alliés et de fontes spéciales

STAALGIETERIJ

voor hoog- en laaggelegeerde staalsoorten en speciale legeringen

FOUNDRY

for cast steels, high alloyed steels and special alloys

Sehr geehrte Damen und Herren,

wir bedanken uns für Ihre Anfrage und müssen Ihnen aufgrund der erheblich gestiegen Kosten für Material und Energie mitteilen, dass die Preise für die von uns angebotenen Befestigungsbauteile:

Ober- und Unterschienen nach Ihren Zeichnungen aus Werkstoff 1.4312 / 1.4408

um 40,3 % (Material 1.4408) teurer sind als im Nov.2021. Der Preisanstieg in diesem Fall liegt zu ca.63% an den gestiegenen Rohmaterialkosten (Legierung) und zu ca. 37% an den gestiegenen Energie-, Modell- und Fertigungskosten (Sande, Bindemittel, Schleifmittel, etc.).

Bitte beachten Sie, dass die aktuellen Preise nicht als stabil betrachten werden können, insbesondere bei den Legierungsbestandteile Cr & Ni. Auch können wir keine Prognose bzgl. der Preisentwicklung von Gas und Strom treffen, hier müssen wir uns an Tagespreise bedienen. Daher ist der vorstehend beschriebene Aufschlag auch nur bis zum 27.4.2022 gültig.

Bitte beachten Sie zudem, dass die Verfügbarkeit für das Rohmaterial schwieriger geworden ist und sich daraus eine mögliche Verlängerung der Lieferzeit ergeben könnte.

Trotz dieser erschwerten Situation hoffen wir dennoch, dass unser Angebot Ihr Interesse weckt und würden uns über Ihren Auftrag freuen.

www.savimetal.com

SAVIMETAL
Dear Sir or Madam,
Thank you for your enquiry. Due to the considerable increase in material and energy costs, we have to inform you that the prices for the fastening components offered by us:
- Top and bottom rails according to your drawings made of material 1.4312 $/$ 1.4408
are 40.3% (material 1.4408) more expensive than in Nov.2021. The price increase in this case is due to approx.63% of the increased raw material costs (alloy) and approx. 37% of the increased energy, pattern and production costs (sands, binders, abrasives, etc.).
Please note that the current prices cannot be considered stable, especially for the alloy components Cr & Ni. We are also not able to make a forecast regarding the price development of gas and electricity, here we have to use daily prices. Therefore, the surcharge described above is only valid until 27.4.2022.
Please also note that the availability of raw material has become more difficult and this could result in a possible extension of the delivery time.
Despite this more difficult situation, we nevertheless hope that our offer will arouse your interest and would be pleased to receive your order.

Translated with www.DeepL.com/Translator (free version)



Floecksmühle Energietechnik GmbH Bachstr. 62-64,

52066 Aachen

z. Hd. Herr Kessels

Es schreibt Ihnen: Petra Jesnowski

Tel.: +49 2102 7145-114 Fax.: +49 2102 7145-100

EMail: petra_jesnowskil@zieglergroup.com

Datum: 22/ April 2022

Unser Angebot von November 2022 40' Container DAD von Aachen nach Macomb County Michigan

Sehr geehrte Damen und Herren,

Ihre Anfrage für die Aktualisierung des Angebotes aus November 2021 haben wir erhalten. Aufgrund der erheblich gestiegenen Kosten für Treibstoff und Bunkerkosten müssen den Angebotspreis um 23% erhöhen. Zu Ihrer Information, beträgt die Kostensteigerung bei Treibstoff z.Z. 20 % und bei den Frachtraten / Bunkerkosten Preisanstieg 50 %.

Unsere Angabe zum Preisanstieg müssen wir auf eine Gültigkeit von 4 Wochen befristen, aktuell sind keine konstanten oder gar sinkende Kosten erkennbar.

Gerne unterbreiten wir Ihnen ein aktuelles Angebot zum Zeitpunkt zum Zeitpunkt der Frachtübernahme.

Mit freundlichen Grüßen

ZIEGLER GmbH

I.A. Petra Jesnowski

Ziegler

Our offer of November 2022 for a 40' Container DAD form Aachen to Macomb County Michigan

Dear Sir or Madam,

We received your request to update our November 2021 quote. Due to the significant increase in fuel and bunker vessel costs, we must increase the quoted price by 23%. For your information, the cost increase for fuel is currently 20% and for the freight rate/ bunker vessel costs the price has increased by 50%.

We must limit our price increase to a validity of 4 weeks, currently no constant or even decreasing costs can be seen.

We would be pleased to submit you a current offer at the time of freight acceptance.

With kind regards,

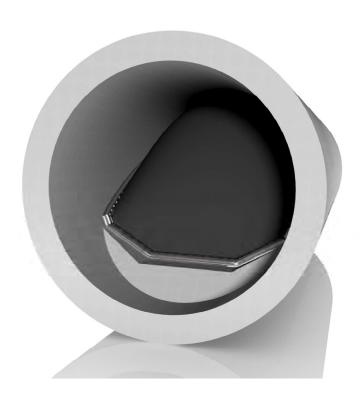
ZIEGLER GmbH

*** Translated with www.DeepL.com/Translator (free version) ***

FLOECKSMÜHLE PROPOSAL FOR 8-1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT IN-SYSTEM STORAGE

Inflatable Sewer Gate Project No. WWS-2019-003

FLEXIBLE FLOW MANAGEMENT SOLUTIONS



Floecksmühle Energietechnik GmbH Bachstrasse 62-64, D-52066 Aachen, GERMANY



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W Floecksmühle

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1. PARTNERS

Below is a list of the partner companies involved in the design and supply of the Inflatable Sewer Gate (ISG). It should be noted however, that in the event of a contract, it would be signed between the Buyer and Floecksmühle for the engineering and the entire inflatable sewer gate materials scope of supply.

1.1 FLOECKSMÜHLE ENERGIETECHNIK GMBH

Floecksmühle has been designing, supplying and installing air-filled and water-filled rubber gates since 1984, using the highest-grade rubber and internationally recognised quality components, exceeding materials used elsewhere in the industry. These advantages combined with the inherent simplicity of the design and unrivalled intelligent control systems, flow controls and advanced failsafe systems; make Floecksmühle's rubber gate technology the new standard of today.

1.2 MÉCAN HYDRO

Mécan Hydro are Floecksmühle's representatives and installation site advisors (M2i Division) covering Rubber Dams and Inflatable Sewer Gates in North America and Canada. They have installed over 120 rubber gates to date.

Mécan Hydro were Bridgestone reps between 1994-2008 and have been Floecksmühle's representatives since Bridgestone exited the business in 2008.

1.3 RUBENA (FORMERLY TRELLEBORG)

Rubena are world leaders in the manufacture of engineered polymer solutions. They have been manufacturing inflatable rubber gates since 1963 and have been supplying Floecksmühle with bladders since 2011.

1.4 OMP ENGINEERING

OMP are aboveground and in-tunnel Rubber Dam and ISG control equipment suppliers and installation advisors. They have been Floecksmühle's partners since 2009. OMP installed all Bridgestone's Expan Gate control systems in North America and a large number of their above ground and in-tunnel Rubber Dams.

2. PROJECT DETAILS

2.1 INTRODUCTION

The ISG is to be installed in a combined sewage system at Beaconsfield (I-94), primarily for storing storm water. The pipe is unreinforced, however according to Macomb County, the pipe is reported to be in good condition given its age.



The main purpose of the ISG is to close off the pipe and store water in a surcharged condition until the storm is over and then use the gate to throttle the return flow.

2.2 BEACONSFIELD (I-94)

Pipe Size/ Shape: Ø11.5'/ Circular

Maximum upstream surcharge: 2.5' above crown of pipe

Downstream Surcharge: 0 to 2' Required plinth/ bench: 1.5'

Invert: El. 559.7' – 559.83' Size of ISG: 10.0' H x 33.0' L

3. ISG TECHNICAL DETAILS

3.1 INTRODUCTION

This proposal includes engineering, manufacturing and supply of all equipment, as detailed in this offer, delivered up to DDP Beaconsfield site (Incoterms 2020).

The ISG is designed for temporary full closure. Some water leakages can be expected.

Refer to Annex 1 for in-tunnel scope

3.2 BLADDER MATERIAL

The Floecksmühle designed ISG bladder is produced by Rubena in the Czech Republic, formerly part of the Trelleborg Group. Rubena is a world leader in the manufacture of engineered polymer solutions. The combination of EPDM (Ethylene Propylene Diene Monomer), SBR (Styrene Butadiene Rubber) and NR (Natural Rubber) give the bladder its high resistance to the elements encountered in in-tunnel sewer environments and a long design life. The polyester reinforcement cord layers give the bladder its high tensile strength.

Bladder Manufacturer: Rubena (formerly Trelleborg)
Bladder design: Floecksmühle (Germany)

Filling medium: Air
Bladder design pressure: 4.0 psi
Bladder maximum inner pressure: 4.3 psi

Rubber material: EPDM/SBR/NR

Size of "upper" sheet: 5,980 mm x 10,750 mm (opened out flat)

Size of packaged bladder (shipping format): ≤ 1,100 mm x 6,600 mm

Weight of packaged bladder (shipping format): ~ 2,495 Kg

For installation, membrane needs to be unrolled at site and then re-rolled lengthwise.

Total thickness "upper": $18 \pm 2 \text{ mm}$ - Outer cover: 3 mm

- Inner layers: 12 mm
- Innermost layer: 3 mm

Reinforcement fabric material: Polyester



Minimum reinforcement fabric cord layers: Eight (8)
Cord breaking strength per layer: ≥ 190 N/mm

Size of lower sheet: 5,980 mm x 10,750 mm (opened out flat)

Size of packaged bladder (shipping format): $\leq 1,100 \text{ mm x } 6,600 \text{ mm}$

Weight of packaged bladder (shipping format): ~ 921 Kg

For installation, membrane needs to be unrolled at site and then re-rolled lengthwise.

 $\begin{array}{lll} \mbox{Total thickness:} & 8 \pm 2 \mbox{ mm} \\ \mbox{Reinforcement fabric material:} & \mbox{Polyester} \\ \mbox{Reinforcement fabric layers:} & \mbox{Two (2)} \\ \end{array}$

Surcharging: 14,0' (3.96 m) from base of tunnel (invert) Max. WL under which ISG can be inflated: 7,5' (2.29 m) from base of tunnel (invert)

Max. USWL sustained by ISG: 14.0'

Bladder Safety Factor: ≥ 4

Bladder design life: 25-30 years, depending on site conditions and

how ISG is operated and maintained

Bladder physical properties:

Test	Standard	Requirement
Shore-A-Hardness	DIN ISO 7619-1	Manuf. Inform. \pm 5
Tensile strength	DIN 53504	≥ 15 N/mm ²
	(sample S2)	
Elongation at break	DIN 53504	≥ 300 %
	(sample S2)	
Adhesion between outer rubber layer and cord	DIN EN ISO 252	≥ 6 N/mm
Full thickness tensile strength	DIN EN ISO 283	According to proj.
	(EN ISO 13934-1)	design data
Density	DIN EN ISO	Manuf. Inform.
	1183-1	\pm 0,02 g/cm ³
Abrasion	DIN ISO 4649	≤ 150 mm ³
Accelerated ageing	DIN 53508	
7d/70°C	DIN 33300	
Change of Shore-A-Hardness	DIN ISO 7619-1	≤ 8
Tensile strength	DIN 53504	≥13,5 N/mm²
	(sample S2)	
Elongation at break	DIN 53504	≥ 300 %
	(sample S2)	
Full thickness tensile strength	DIN EN ISO 283	≤ -20 %
	(EN ISO 13934-1)	
Adhesion between outer rubber layer and cord	DIN EN ISO 252	≥ 4,5 mm

Full thickness tensile strength shall be tested in accordance with EN ISO 283 for membranes with fabric reinforcement. Full thickness tensile strength for membranes reinforced by cord fabric may be derived from the single layer tensile strength, tested in accordance with EN ISO 13934-1. Tested strength shall be sufficient to provide the required safety factor.



3.3 SPACER SYSTEM (air evacuation/ lay flat)

The spacer system is attached to the lower bladder sheet. Its purpose is to stop the upper rubber layer from sticking to the bottom one and forming air pockets. The standalone spacer assists in channelling the evacuating air to the supply/exhaust flange.

3.4 ANCHORING SYSTEM

The anchoring system proposed will ensure a complete sealing of the bladder.

Lower plates

Plate production: Industrial foundry

Country of origin: Germany Type: H6

Material: Stainless Steel casting Plate length: Refer to Annex 2 Number of plates: Refer to Annex 3

Clamping plates

Number of plates:

Plate production: Industrial foundry

Country of origin: Germany Type: H3

Material: Stainless Steel casting Plate length: Refer to Annex 2

Factor of safety tensile strength: ≥ 3 Factor of safety yield strength: ≥ 1.67



Refer to Annex 3

Figure 1: ISG upper and lower fixing plates



• Anchor bolts, nuts and washers

Anchor bolt production: Standard industrial

Origin: Germany Type: Resin Anchor

Material: Stainless steel SUS 316 Bolt size and quantity: 1 1/2" (Base anchors) x 48 pcs

1" (Sidewall anchors) x 108 pcs Bolt length:

~1'-6" (Base anchors)/ ~1'-2" (Sidewall anchors)

Refer to Annex 4

Allowable pull-out strength base anchors: > 60,000 NAllowable pull-out strength sidewall anchors: > 54,000 N

Factor of safety tensile strength: ≥3 Factor of safety yield strength: ≥2

Core-drill depth: Refer to Annex 4

See bolt size Nut size:

Material: Stainless steel SUS 316

Resin/grout for setting anchor bolts and plates not included in supplier's scope

Washers

Washer size: See bolt size (Standard washers)

Stainless steel SUS 316 Material:

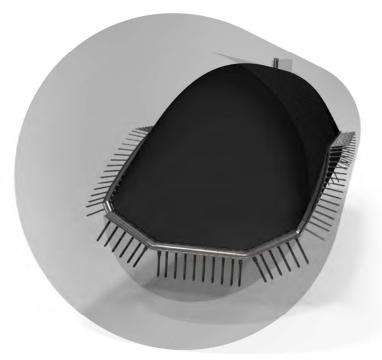


Figure 2: ISG anchoring system



3.5 AIR SUPPLY/ EXHAUST, PRESSURE MEASURING & DRAINAGE PIPES

The air supply/ exhaust and pressure measuring pipe scope is limited to the control room. Piping between Floecksmühle supplied equipment is not included. Condensate drainage pipes are not included in the scope.

• Pipe sizes (not included in scope)

Air supply/ exhaust pipe: Ø 4"

Pressure measuring pipe: Ø 2"

Pneumatic pipes: 2 x Ø 1"

Pipe material: According to tender specifications

3.6 FLANGES

Special air supply/exhaust, pressure measuring and condensate drainages flanges installed inside the ISG are included in the scope.

Flange production: Standard industrial

Origin: Germany

Type: Floecksmühle Design Material: Stainless steel SUS 304

Refer to Annex 1 for full scope of flanges

3.7 CONDENSATE DRAINAGE SYSTEM

The condensate drainage system (drainage box) included in the scope is to be installed inside of the bed / plinth beneath the ISG. It consists of a pneumatically and a manually actuated butterfly valve to automatically evacuate the condensate accumulated inside of the bladder to the downstream side. This is a fully automated system and without the need of any operator intervention.

Drainage box body and cover: Stainless steel SUS 316 Cover hardware: Stainless steel SUS 316

Valves and piping inside drainage box: Stainless steel

Piping: Stainless steel SUS 316

3.8 OVER PRESSURE RELIEF VALVE

The mechanical over pressure relief valve limits the bladder inner pressure to ensure that it does not exceed the maximum allowable pressure. It provides additional protection to the bladder and is supplied to guarantee that the bladder does not suffer from any over pressure in case of a power and/ or system failure.

Manufacturer: Kunkle 337 Pressure Relief Valve

Origin: USA
Connection diameter: 2"
Design pressure: 10.0 psi



3.9 AUTOMATIC INFLATION & DEFLATION VALVES

The automatic air supply and exhaust valves shall be as follows:

Manufacturer: Automax Origin: USA

Valve type: B100S10/ B85D & B100D - Butterfly

Nominal diameter: 2"/ 3" & 4"

3.10 MANUALLY OPERATED MAINTENANCE VALVES

Manufacturer:

Origin:

Valve type:

WFB6000

Material:

Brass

Number of valves:

Diameter air supply/ exhaust valve:

Diameter pressure measuring valve:

1"

3.11 WATER LEVEL TRANSDUCER

To be supplied by others

3.12 PRESSURE TRANSDUCER

Manufacturer: Flowline
Model: LD30-S001
Origin: USA
Accuracy: +/- 0.10%

Measuring range: 4-20 mA, 0-15 psi

3.13 BLOWERS

Number: Two (2) Manufacturer: Fuji

Model: 2VFB60-11.5-7W Type: Regenerative

Origin: USA

Power rating: 230/460VAC, 3 Phase, 60 Hz, 11.5 HP

Inflation time: Approx. 20-30 min. Deflation time: Approx. 20-30 min.

3.14 VACUUM PUMP & SOLENOID VALVE (Condensate drainage system)

A vacuum pump is included in the scope to assist with the deflation process, ensuring the removal of the last 0.5 psi, as well as helping the bladder lay flat.



Vacuum blower

Type: Vacuum blower

Model: Fuji VFC300A-7W Compressor

Origin: USA

Power rating: 480VAC, 3 Phase

Solenoid valve

Type: Solenoid valve

Model: ASCO
Origin: USA
Power rating: 24 VDC

3.15 UPS

The UPS back up system is sized to run the control panel, valves, water level measuring devices and pressure transducers for up to 2 hours. The UPS will deflate the ISG in the event of power loss and high water. Valves are also setup to fail open. So long as there is power, the valves will remain closed, unless they are being opened for water level control. In the event of power loss, the valves will automatically open and deflate the ISG.

Type: Extreme Power

Model: T91-1500 Online UPS

Origin: USA

Power rating: 1500 VA, 120:120 VAC

Type: Extreme Power

Model: Conversion Extended Run Battery Pack

Origin: USA

3.16 CONTROL SYSTEM SCOPE (FULL LIST)

Refer to Annex 5 for P&ID

Two (2) Fuji 2VFB60-11.5-7W - Regenerative Blower 11.5HP,3/60/230/460 VAC

Four (4) Fuji FS-230P-200 - Inlet Filter Silencer, 2" NPT w/ paper element

Two (2) Fuji VFC300A-7W - Ring Compressor, 0.5 HP, 480VAC, 3PH, 60 Hz

Three (3) Proco 2x6 240-AV/EE - 2" Single Spherical Expansion Joint, EPDM, ANSI 125/150# floating flanges, drilled through holes

Two (2) U.S. Valve 09-3-3SPE - 2" Wafer Check Valve, Brass Body and Internals, EPDM Seal

One (1) Kunkle 337 – 2" Pressure Relief Valve with bronze disk and nozzle, set to release at 10.0psi

One (1) Fisher 289H NPT Pressure Relief Valve - 2", 1.75-7.0 psig spring range

One (1) Fisher 289H NPT Pressure Relief Valve - 1", 1.0-4.5 psig spring range

W Floecksmühle

- Two (2) 4" Triac OSB-W1-0400-ESB-HE Butterfly Valve with 316SS undercut disc, EPDM seat and handle
- One (1) Gardner Denver VR5-8 Reciprocating Air Compressor with 80 gallon tank, motor starter panel, coalescing filter
- Two (2) Automax B100S10 2" pneumatic actuator, fail open, spring return, w/ XNWS2RRU2MG-14 limit switch package, Pharos indicator, and ASCO EF8551A001MS solenoid (24VDC) mounted on 2" Triac OSB-W1-0200ESB-HE butterfly valve w/ EPDM body and 316SS disc and stem
- Four (4) Automax B85D 3" pneumatic actuator, double acting, w/ XNWS2RRU2MG-14 limit switch package, Pharos indicator, and ASCO EF8551A001MS solenoid (24VDC) mounted on 3" Triac OSB-W1-3200ESB-HE butterfly valve w/ EPDM body and 316SS disc and stem
- One (1) Automax B100D 4" pneumatic actuator, double acting, w/ XNWS2RRU2MG-14 limit switch package, Pharos indicator, and ASCO EF8551A001MS solenoid (24VDC) mounted on 4" Triac OSB-W1-0400ESB-HE butterfly valve w/ EPDM body and 316 SS disc and stem
- One (1) Apollo70-608-01 2" Three Way Ball Valve, Brass, L configuration, 1.5" port
- One (1) Duravalve WFB6000- 2" Ball Valve, Brass, Full Port
- Two (2) Duravalve WFB6000- 1" Ball Valve, Brass, Full Port
- Four (4) Duravalve WFB6000- 1/4" Ball Valve, Brass, Full Port
- One (1) Twist Claw Hose Coupling 1" NPTM, Brass
- One (1) AT Controls 88-TX-100/S23S4-XX 1" 3 piece threaded end full port ball valve in 316SS complete with Triac S2-083SR Stainless Steel Spring return fail closed actuator sized for 60 PSI supply air.
- One (1) AT Controls D9-F1-0100-XX 150# 3 piece threaded full port ball valve in 316SS with lever handle
- One (1) ASCO 8210G94 Brass Solenoid Valve, 1/2", 24VDC solenoid
- One (1) ASCO EF8320G202 3-way solenoid valve, 24VDC, 1/4" NPT in stainless Steel
- One (1) Flowline LD30-S001 Pressure Transmitter, 0-15psi, 1/4" NPT, 9' Cable, 4-20mA
- One (1) Ascroft 2 ½" Low Pressure Diaphragm Gauge, Series 1490, 1/4in. NPT lower connection, 0-5 psi
- One (1) Ascroft 2 ½" Low Pressure Diaphragm Gauge, Series 1490, 1/4in. NPT lower connection, 0-15 psi
- Three (3) Dungs GAO-A4-4-8 Pressure Switch
- One (1) Extreme Power T91-1500 Online UPS, 1500VA, 120:120 VAC

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- One (1) Extreme Power T91-BP36A Conversion Extended Run Battery Pack
- One (1) Custom IS Gate Control Panel Fabricate System 6 control panel w/ Allen Bradley CompactLogix PLC and PanelViewPlus HMI as per drawing set #XXXX. UL certified.
- One (1) Engineering Services and CAD, except commissioning

Refer to Annex 6 for the control room layout drawing

3.17 OTHERS

A comprehensive Installation and Operation & Maintenance manual shall be supplied in English.

4. DOCUMENTATION

Documentation to be provided in the event of an order:

- Inflatable sewer gate general assembly drawings with main dimensions and illustrations of all technical equipment forming part of the scope. The installation drawings will be prepared according to the tender specification drawings. The scope does not include taking on-site measurements.
- Assembly drawings representing all system pipelines.
- Production and assembly quality and acceptance protocols.
- Installation drawings
- Fixing system load details
- Detailed operation and maintenance manual

5. INSTALLATION, OPERATION & MAINTENANCE

5.1 INSTALLATION WORKS

The installation of the ISG is not included in the Supplier's equipment scope and should be carried out by experienced technicians.

5.2 INSTALLATION ADVISORY SERVICES

It is estimated that our partners, Mécan Hydro (M2i Division), shall be required on site for approximately twenty-five (25) man days of installation advisory services, which are not included in the scope. Installation advisory services consider the pre-installation meeting and providing advice during the gate installation, including the bladder. Refer to Annex 7 for M2i's rates.



It is estimated that our partners, OMP Engineering, shall be required on site for approximately five (5) man days of installation advisory services, which are not included in the scope. Control equipment installation advisory services consider the control panel, electro-mechanical equipment, commissioning, operator training, inspection of the complete gate system and functional testing. Refer to Annex 7 for OMP's rates.

Additional support provided by Floecksmühle that is not included in the scope shall be charged as per their standard rates detailed in Annex 7.

Note that the installation site advisor provides advice on the best practices and installation techniques but does not physically carry out the work himself.

The Buyer shall give written notification 6 weeks in advance of when the installation advisory services are required on site and confirm that any building work is far enough advanced to permit the installation to begin at the appointed time.

5.3 ADDITIONAL INSTALLATION ADVISORY SERVICES

Any services rendered and additional site visits required as and above those described in the scope of this proposal, which have been requested by the buyer or that become necessary due to deviations from the agreed technical conditions, shall be charged according to the supplier's enclosed rates.

Refer to Annex 7

The construction must be ready for the assembly work to commence when the installation advisors arrive at site. Waiting times that are not the fault of the supplier shall be invoiced according to the rates in Annex 7.

A responsible site manager must request overtime exceeding the 10th daily work hour, as well as work on Saturdays, Sundays and Public Holidays, if deemed necessary. Overtime in this context will be charged separately.

6. PENDING

If successfully awarded the contract, the following points need to be clarified by the General Contractor prior to moving to the next stage:

Provide details of the job schedule.

7. COMMERCIAL

Note that this entire offer and all its attachments are private and confidential. It is not permitted to copy, transfer or to transmit any parts of the offer without the explicit permission of the Seller in writing.



7.1 BASE PRICE

The base offer price is on engineering and supply only basis of one (1) fully equipped ISG, as described in this offer, delivered up to DDP Beaconsfield site (Incoterms 2020). Unloading at site not included.

IS Gate 10.0' H x 33.0' L: US\$ 898,000.00

7.2 PAYMENT SCHEDULE

Payment tranches shall be as follows:

- 10% down payment upon signing of order
- 20% upon delivery of preliminary engineering drawings
- 20% upon presentation of embedded items shipping documents
- 30% upon presentation of rubber bladder and ancillary items shipping documents
- 10% upon presentation of CMR of control equipment delivery
- 10% upon presentation of commissioning protocol/ certificate but no later than thee (3) months after receipt of final shipment.

All bank transfer fees, if any, shall be for the account of the Buyer.

7.3 PAYMENT TERMS

Payment is to be affected by telegraphic transfer up to 30 days following receipt of invoice, without any discount.

7.4 OFFER VALIDITY

Our offer is calculated on a current cost basis, excluding VAT, and is valid for orders placed by 31/01/2022 and complete Equipment latest delivery date by 1/10/2022. It will be necessary to request an extension and to negotiate new pricing and delivery terms for orders placed after the "order place by date".

7.5 DELIVERY TERMS

DDP Macomb County Beaconsfield Site, MI (USA) (Incoterms 2020)

7.6 DELIVERY & INSTALLATION SCHEDULE

The delivery time depends on the order signing date, what is in production at time of order and upon clarification of all outstanding technical issues, receipt of works schedule and final drawing approval.

7.6.1 DELIVERY

Following Buyer's notification to Seller to proceed with the construction

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- 2 weeks for signing of purchase order.
- 6 months for the complete system production time (following placement of order). This includes engineering, rubber bladder, fixings and controls.
- 1 month for shipping time
- 1-2 weeks customs clearance and delivery to site (inland transportation)

7.6.2 INSTALLATION

The ISG installation time depends on the site conditions and the general contractor's experience at site.

4-5 weeks for in-tunnel works: marking, core drilling and placement of anchoring system, placement of air supply/ exhaust, pressure measuring and condensate drainage piping (excluding cut-outs), installation of condensate drainage system, placement of lower bladder sheet, placement of air evacuation spacer system, placement of upper bladder sheet, clamping of bladder and tightness tests. Note that the estimated time for this phase includes the construction of the bench.

1 week for installation of control equipment in the control building or vault.

1 week for OMP controls verification, start-up and complete system commissioning.

A total of 6-8 weeks is estimated for the entire installation of the ISG, if all goes well.

Schedule terms:

- A binding delivery and installation schedule is to be drawn up in consultation with the supplier.
- Waiting times may occur in the event that a schedule or times have not been arranged prior in consultation with the supplier.
- The buyer's appointed site manager or his deputy must always make appointments in writing.
- In case of overlapping deadlines with different construction sites, the deadline that has been fixed the longest and confirmed by the supplier shall be met.

7.7 TRANSFER OF RISK

The transfer of risk occurs when "Equipment" is ready to be unloaded at "Site".

7.8 TRANSFER OF OWNERSHIP

The transfer of ownership to the client takes place exclusively upon receipt of full payment for the goods and services covered by this offer, including all additional orders and supplements.



7.9 RETENTION OF TITLE

The extended reservation of title according to the general terms of delivery for products and services relating to the electrical industry shall apply.

7.10 COPYRIGHT

This entire offer and all enclosed documents are protected by copyright, according to DIN 34. The passing on, in part or in full, and the reproduction of these documents, and the exploitation and communication of their contents are strictly prohibited unless expressly permitted by the supplier. Compensation will be due for not abiding by these terms. All rights are reserved in the event of patent and utility model and trademark registration. The use of these documents is limited exclusively to the offered project. In the case of other projects, the supplier will be pleased to prepare the corresponding documents.

7.11 CHANGES TO SCOPE

In the event that the buyer wishes to make changes to the constructional or mechanical scope, resulting in the contracting of additional services and/or materials, these costs shall be invoiced separately. Such requests for change of order can only be made with the express agreement of the supplier in writing.

The supplier, Floecksmühle, has priced these works based on receiving a purchase order and a signed contract with no additional Conditions of Contract (no Z Clauses). Should additional Conditions of Contract be required, the supplier's price will be subject to change.

7.12 WARRANTY GENERAL TERMS

The Supplier offers a warranty of twenty-four (24) months from the date of commissioning or twenty-seven (27) months from the date of shipment, namely the date of the Contract for the International Carriage of Goods by sea (BOL), whichever occurs sooner.

The Warranty covers the equipment by the supplier only and no other items. The Warranty is valid providing the ISG is and remains fully deflated during a high water and/ or flooding events exceeding the before mentioned limits and no modifications are made to the system without the prior consent of the Supplier.

Deliberate damage, extraordinary loads and operating errors are not covered by the limited warranty.

Had any problems arise during the warranty period in connection with the in-tunnel equipment supplied, the supply and placing of the stop logs and the water diversion, as well as any lifting equipment, if required, shall be arranged by and for the account of the Buyer.

The warranty begins on the day of commissioning but no later than one month after receipt of the final delivery if commissioning is not carried out for reasons for which the supplier is not responsible.

Refer to Annex 8 for the Floecksmühle Standard Letter



7.13 FORCE MAJEURE

If, due to causes of force majeure which arise during the industrial manufacture, transport, construction, assembly and operational and performance testing of the equipment, the Buyer or the Seller is unable to fulfil the contractual obligations, he shall be temporarily exonerated from responsibility once the cause indicated has been proven; when the cause has disappeared, the responsibilities under the Contract will be re-established as effective.

Causes of force majeure shall be considered to be all unforeseeable, uncontrollable events which are independent of the will of the parties, such as, but without this list being limitative: governmental acts, wars, revolutions, terrorist acts, insurrections, vandalism, military mobilization, atomic explosions and similar, earthquakes, volcanic eruptions, storms in general, manifestations of nature of a destructive order, strikes, lockouts, blackouts, pandemics, epidemics, including those events similar to those listed which are outside the control of both, the Buyer and the Seller as appropriate.

7.14 COVID-19

The supplier, Floecksmühle Energietechnik, has no other choice than to accept the position of its suppliers concerning the COVID-19 virus, which is that Floecksmühle cannot be held responsible and will not be liable for any damage or loss due to a shortcoming in the fulfillment of its obligations if the shortcoming is connected to COVID-19 related circumstances. Exceeding the delivery time and / or execution period does not in any way entitle the client to terminate the agreement.

7.15 INCIDENTALS

The Seller, its subcontractors and/ or affiliates do not accept liability for any consequential/incidental damages or losses in connection with this offer or in the event of a future contract.

7.16 APPLICABLE LAW

The general conditions for supply and installation of plant machinery in EU are applicable (LMW 188A, 188B UN Economic Commission).

8. ONSITE SERVICES

These services are not included in the supplier's scope of delivery and are therefore to be provided by the buyer:

8.1 ORGANIZATION AND COORDINATION

The Buyer will appoint a supervisor who will be responsible for the entire works and will be
the spokesperson for the Seller's engineers. He will be responsible for coordinating the works
of both parties and for resolving any issues during the installation process. The supervisor
will also be responsible for commissioning, staff training, technical and final approval, safety
and all procedures necessary for carrying out the works.

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- All site construction drawings associated with the ISG and of the general site layout, such as
 but not limited to the tunnel construction, dimensions of the sidewalls, piping system and of
 the control house etc., are to be presented to the Seller as early as possible in AutoCAD
 .dwg or .dxf format for the Seller to study prior to starting with the ISG system design work.
- Once the ISG drawings have been submitted, they shall be checked and approved by the Buyer before starting with the manufacturing of the ISG bladder.

8.2 CIVIL WORKS & BLADDER INSTALLATION

The Seller will not be responsible for any civil works or for the bladder installation. However, as M2i (Mécan Hydro) will be involved in the installation on an advisory level, the Buyer is responsible for but not limited to the following:

- Preparation of the site, ensuring that it is safe for the installation of the ISG bladder.
- The tunnel in which the ISG is to be installed should have a smooth finish. It might be necessary to smoothen some areas or to carry out minor repair work, if deemed necessary.
- Cleaning and repairing the tunnel surfaces as per Seller's recommendations, if any, for installation of the ISG bladder.
- Static calculations and analysis, civil works drawings and any other civil works, if any.
- A complete work's schedule, taking into account the Seller's delivery times and the availability of the M2i installation site advisor to go to site. The Seller should be kept up to date of any changes.

9. INSTALLATION EQUIPMENT

- All means necessary for carrying out the installation will be provided by the Buyer, such as but not limited to personnel work teams, cranes and the rest of the heavy equipment. This includes standard work tools and those necessary for the installation, as well as the materials for any repair work to the tunnel and necessary construction work etc.
- It will be the Buyer's responsibility to make available the necessary cranes and equipment
 for raising and manoeuvring the bladder for installation, including the unrolling bar, slings,
 chains and clamps etc. and equipment for moving the other ancillary components to their
 installation location.

10. SAFETY

The Buyer shall be responsible for but not limited to the following safety considerations:

- Installing safety barriers, alarms and safety warning signs for civilians etc., such as required by state or federal laws.
- Installing safety structures and equipment necessary for protecting any persons that might be on the upstream and downstream sides of the tunnel during installation works.



The Buyer should confirm their conformity to operate the ISG and to assure the Seller that
they are in full compliance with state and federal laws, confirmed by the issuance of an
approval certificate to be issued by the authorities prior to commissioning.

11. TRANSPORTATION, STORAGE & EQUIPMENT

The Buyer shall be responsible for but not limited to the following transportation, storage and equipment considerations:

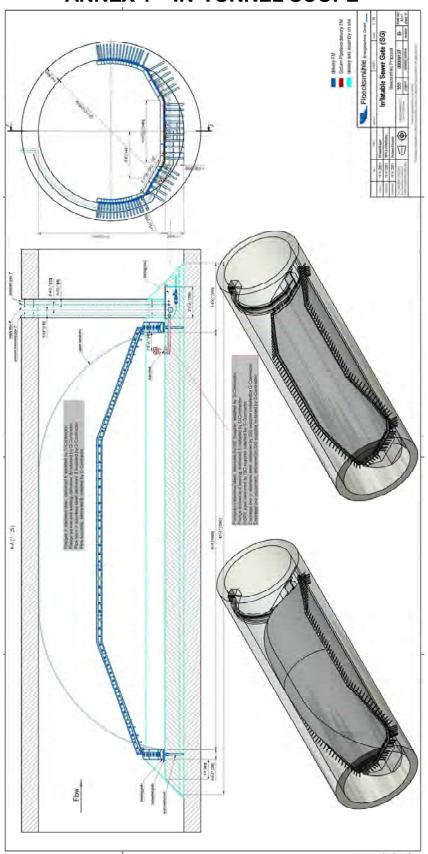
- Organize a secure warehouse or a suitable location to house the Seller's equipment, ensuring that it is kept safe and dry until installed at site.
- Making available any lifting equipment, including beams and slings to fit and manoeuvre the bladder and other component parts at the work site.

12. ANNEXES

- Annex 1: In-tunnel scope
- Annex 2: Plate dimensions
- Annex 3: Number of Plates
- Annex 4: Anchor core drill depth
- Annex 5: P&ID
- Annex 6: Control room layout drawing
- Annex 7: Daily and hourly rates
- Annex 8: Floecksmühle Standard Warranty Letter

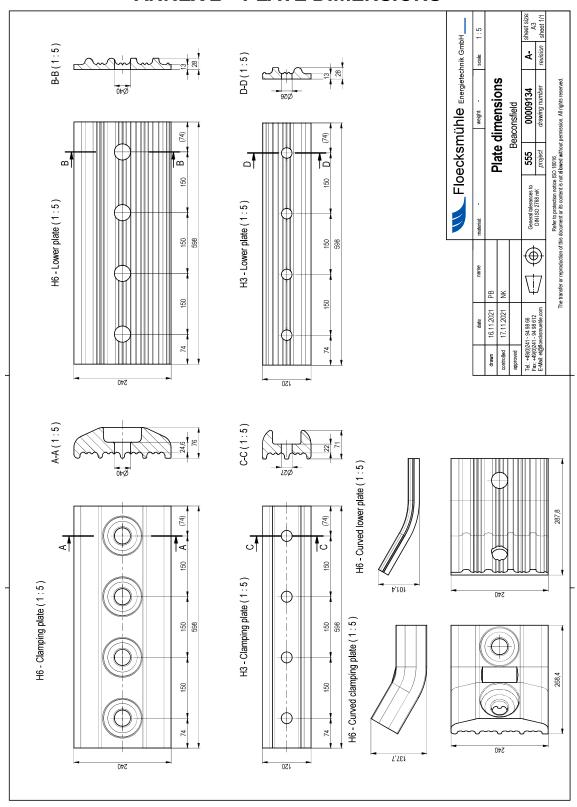


ANNEX 1 – IN-TUNNEL SCOPE



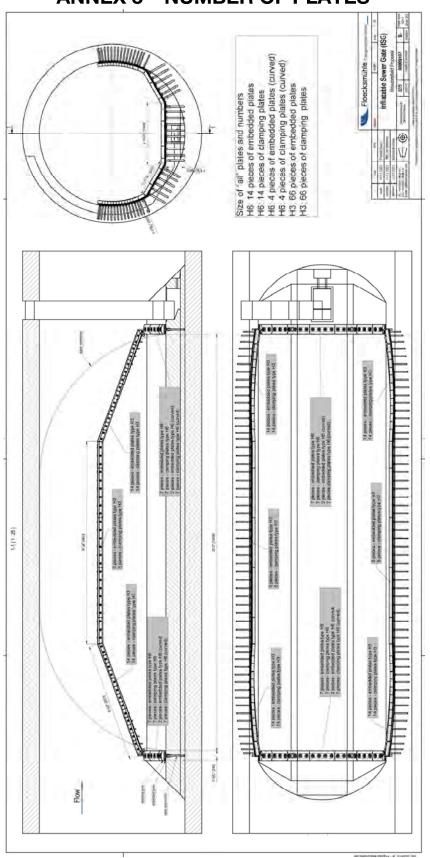


ANNEX 2 - PLATE DIMENSIONS



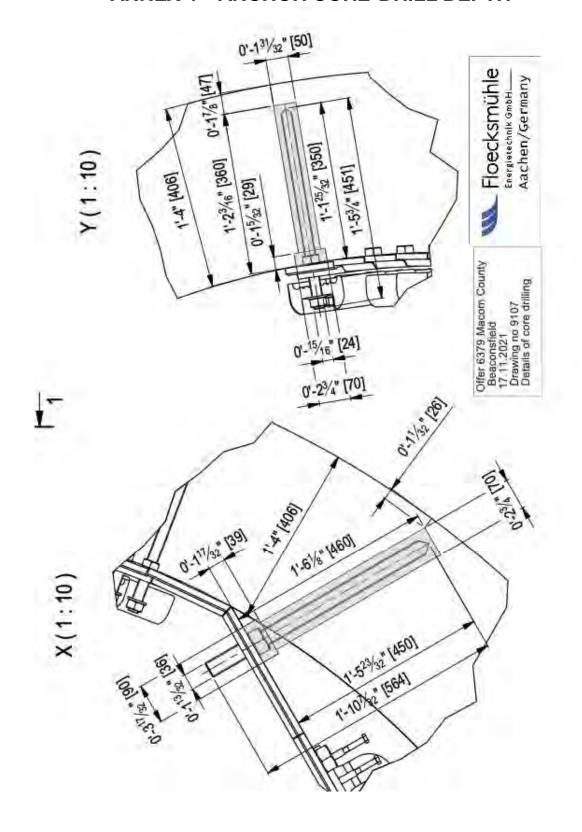


ANNEX 3 - NUMBER OF PLATES



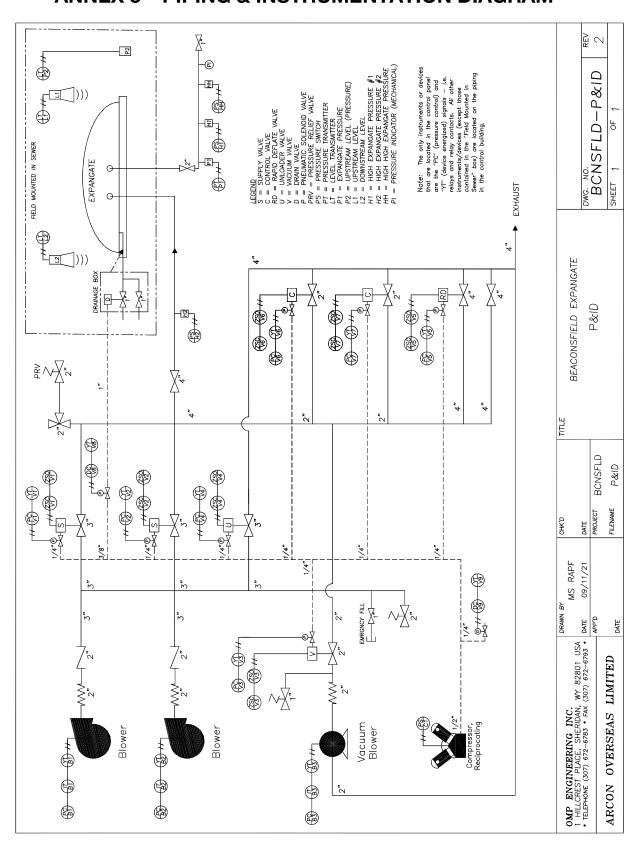


ANNEX 4 – ANCHOR CORE-DRILL DEPTH



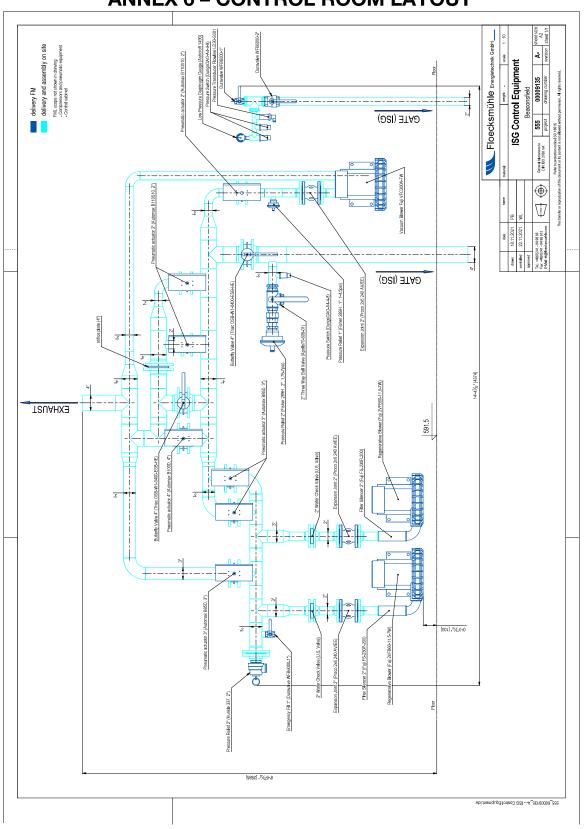


ANNEX 5 – PIPING & INSTRUMENTATION DIAGRAM





ANNEX 6 – CONTROL ROOM LAYOUT





ANNEX 7 - DAILY AND HOURLY RATES



Hourly rates and unit prices 2021

Floecksmühle Energietechnik GmbH

Engineer	98,97 €
Advisor	98,97€
Electrician	87,96€
Production	64,98 €
Phone calls	At cost
Drawings	10,00 €/pcs
Copies	0,13 €/pcs
Color copies / Prints	1,10 €/pcs

Regular working times: 38.0 h/week - 8.0 h/day

25 % surcharge for the 9th and 10th working hour

50 % surcharge for each additional working hour and on Sundays and holidays

100 % surcharge for night work and on sundays and public holidays

Expenses

Company car	0,51 €/km
Company truck	0,80 € /km
Daily expenses with overnight stay	51,00€
Accommodation costs	At cost

Assembly preparation and travel times will be charged at the above rates.

Incidental costs will be invoiced according to expenditure. All prices are subject to the statutory value-added tax applicable at the time of the final invoice. This information is valid until 30.12.2021. Thereafter, we reserve the right to increase the rates in accordance with the development of standard wages and other costs.



OMP RATE LIST

Daily rate – travel
On site days
Travel expenses (hotel, rental car and subsistence)
Return flight

\$480/ day \$960/ day at cost plus 15% at cost plus 15%



M2i RATE LIST

RATE LIST US\$ - 2022

The current rates for work on site, after sale services or maintenance services are as follows:

Office Work

DESCRIPTION	TIME	RATES
Intern	Regular Overtime (1.5X)	\$ 78.00 / hr \$ 101.40 / hr
Buyer	Regular Overtime (1.5X)	\$ 104.40 / hr \$ 135.60 / hr
Concept Engineer	Regular Overtime (1.5X)	\$ 189.00 / hr \$ 246,00 / hr
Project Engineer	Regular Overtime (1.5X)	\$ 220.20 / hr \$ 286.80 / hr
Project Manager	Regular Overtime (1.5X)	\$ 137.40 / hr \$ 178.20 / hr

Site Work

DESCRIPTION	TIME	RATES
Foreman	Regular Overtime (2x)	\$ 120,60 / hr \$ 217.20 / hr
Millwrights/ Iron Workers/ Welders	Regular Overtime (2x)	\$ 99.60 / hr \$ 174.00 / hr
Supervisor/ Service Technician	Regular Overtime (1.5x)	\$ 128.40 / hr \$ 180,00 / hr
Technician Quality Control	Regular Overtime (1.5x)	\$ 138.60 / hr \$ 194.40 / hr
Site Manager	Regular Overtime (1.5x)	\$ 153.60 / hr \$ 214.80 / hr

· Rates definition for office work

- o Regular: From Monday to Friday on an 8 hours/day basis.
- Overtime: All hours above 8 hours/day from Monday to Friday, Saturday and Sunday all day. All Civic Holidays such as Christmas, New Year's Day, Easter, St-Jean Baptist, Confederation, Labour Day as well as emergency service calls out of Regular Time.

Rate definition for site work

- Regular: From Monday to Friday on an 8 hours/day basis or Monday to Thursday on an 10 hours/day basis.
- Travel: Traveling is always charged in regular time but is still part of the calculation for the total worked time throughout that day.
- Overtime: All hours above 8/10 hours/day from Monday to Thursday, Friday, Saturday and Sunday all day. All Civic Holidays such as Christmas, New Year's



Day, Easter, St- Jean Baptist, Confederation, Labour Day as well as emergency service calls out of Regular Time.

Expenses

o Mileage: \$0.54/mi for Company car/ Minivan

Mileage: \$0.64/mi for Company truck

Mileage: \$0.18/mi for Tool trailer

o Meals per diem: \$78 / day

 Transport (air tickets, rental car, etc.), Living expenses, consumables and other expenses: At Cost +15 % on presentation of supporting documents.

Conditions

o Services will be invoiced on a weekly basis and payable net 30 days.

Tools & Equipment on site

DESCRIPTION	RATES
Pick up	127.20\$/ Day
Minivan	96\$/ Day
Tool Container/ Service truck (incl. bobcat 225 gas welding machine)	174\$/ Day
Tool trailer	127.20\$/ Day
Greenly (job box) with tools	60\$/ Day



ANNEX 8 – FLOECKSMÜHLE STANDARD WARRANTY LETTER

Floecksmühle Energietechnik GmbH, hereinafter called "Supplier", warrants the Inflatable Sewer Gate (ISG), hereinafter called "Component Parts", supplied to XXXXXXXXX, hereinafter called "Purchaser", as described in Contract no. XXXX-XXXX and under the following conditions:

1. SCOPE OF WARRANTY

This Warranty shall be limited to the Components Parts supplied by the Supplier.

- a. ISG Bladder(s)
- b. Spacer system
- c. Fixing system
- c. Control equipment

This Warranty covers defects in materials and workmanship only.

This Warranty shall not cover any installation work or other work pertinent to the said Component Parts and shall not to be applied to any other goods or materials.

2. CONDITIONS OF WARRANTY

This Warranty is in effect only as long as the Component Parts are stored, handled, installed/ assembled, operated and maintained under the conditions described in Contract no. XXXX-XXXX, installation, operation and maintenance manuals, and as shown in the Supplier's drawings. The following additional conditions apply to this Warranty:

- a. That the Supplier shall be notified in writing within thirty (30) days of the date of completion of installation of the Component Parts.
- b. That the Supplier shall be given a reasonable period to inspect said defective or failed Component Parts.
- c. That any claim under this Warranty shall be lodged with the Supplier within thirty (30) days after discovery of any defect or failure. The Purchaser must describe the discovery of any defect or failure in detail. Additional information in connection with the ISG, the control system, the weather and the hydraulic conditions at/ near to the tunnel and the weir, prior to, during and after the detection of the claim, can be requested by the Supplier, including but not limited to photographs and sketches.

3. WARRANTY PERIOD

The Components Parts are warranted for twenty-four (24) months from the date of commissioning or twenty-seven (27) months from the date of shipment, namely the date of the Contract for the International Carriage of Goods by Sea (BOL), whichever occurs sooner.

4. MANUFACTURER'S LIMITATION OF LIABILITY

The Supplier is liable only for repair or replacement, at its discretion, of the Component Parts described above. The Supplier's aggregate liability shall be limited to the amount of the Component Parts actually shipped by it, calculated on the contracted INCOTERMS 2020 basis and shall exclude any incidental or consequential damages or losses.



5. EXEMPTIONS

In addition to those limitations specified above, the Supplier is free from liability in the following cases:

- a. Damage to Component Parts resulting from incorrect installation and/ or operation by Purchaser and End User.
- b. Damage resulting from Force Majeure.
- c. Change in appearance of the product, which does not affect its performance. This includes but is not limited to discoloration or corrosion of steel parts.
- d. Damage to Component Parts resulting from modification by the Purchaser or other Party.
- e. Damage to Component Parts caused by any third party.
- f. Damage to Component Parts caused by water borne debris.
- g. Damage to Component Parts caused by lightning and over voltage.

6. <u>EXTENSION/ PROLONGATION OF WARRANTY</u>

If the Purchaser requests an extension/ prolongation of the standard two (2) year warranty, and it is agreed by the Supplier and is specified in the Contract; any valid claim made under the Warranty will be granted on the basis that the utilization of the damaged Component Parts are charged for their time in service.

Value of time in service = value of repairing x (time in service/ design life)

In the case of a Warranty claim, the Purchaser will be responsible for the cost of the "value of time in service".

The Warranty is deemed to have been made in Aachen and shall apply and be construed in accordance with German Law.

Floecksmühle Energietechnik GmbH Bachstrasse 62-64, D-52066 Aachen, GERMANY Managing Director: Norbert Kessels Registered Office: Aachen HRB 4726

Tax Id. No. DE 811 414 684 Tel. +49 241 949 8620 Fax: +49 241 949 8612

E-Mail: et@floecksmuehle.com
URL: www.floecksmuehle.com



June 30, 2022

Mr. Zachary Zechmeister Weiss Construction Co. LLC Novi, MI 48375

Re: Formal Notice of Claim, Floecksmuhle Cost Increase Letter from Weiss Construction, May 16, 2022, Response.

Dear Mr. Zechmeister:

As you've been made aware via email, the Owner has decided to bear the entire added cost from Floecksmuhle of \$123,500.00. Note that the Owner does not feel it is their responsibility to provide added compensation for this work. It is clear based on our research and the communication provided by Weiss and between Weiss and Floecksmuhle that Weiss did not meet the January 31, 2022 deadline to provide a signed Contract with Floecksmuhle. This single error is the cause of the escalated cost and should be borne by the Contractor. Nevertheless, the Owner wishes to demonstrate good faith effort, maintain a good working relationship with Weiss, and move forward.

Please understand that this is a one-time exception and does not set a precedent, nor does it negate the Owner's rights under the Contract nor sever any part of the agreement. The cost of any other errors on the Contractor's part that may be discovered as the project progresses will be borne by the Contractor.

As previously requested by the Owner, please prepare a single Request for Change that includes all changes, such as the smaller site modifications, DTE costs, and this cost, for presentation to the board.

We consider this Claim to be closed.

Sincerely,

Timothy W. Ard,

Construction Manager, Tetra Tech

copy: Vincent Astorino, MCPWO

Steven Wanger, MCPWO Steve Rozycki, MCPWO Jeremy Jarinski, MCPWO

Joe Mulville, Weiss Construction

Brian Rubel, Tetra Tech David Weiss, Tetra Tech

WEISS CONSTRUCTION CO. LLC



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Thursday, August 25, 2022

Mr. Timothy Ard Construction Manager Tetra Tech 710 Avis Drive, Suite 100 Ann Arbor, MI 48108 Via- Electronic Delivery (Email)

RE: Tetra Tech 200-16347-19001: Macomb WWS-2021-006; Weiss WC22-01

<u>Subject: PR-C - Gaukler Site Modifications</u>

Dear Mr. Ard-

Please find the attached quote for Weiss CE-08 in response to PR-C (Gaukler site modifications). We note this includes a revised credit from the carbon cannister supplier (ECS) beyond their first offer of \$12,500.

Please review and let us know any concerns. There are no schedule impacts associated with this change as the Gaukler site is not on the critical path and this change was noted early.

Sincerely,

Zachary Zechmeister Project Manager

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: David Weiss



CE 08 - Gaulker PR-C - Delete Carbon Can., Slab Mods, Process Changes, Site Changes

Description	Qŧ	Unit	-	Lab Unit	Labor Total	Mat Unit		Material	Equip Unit	Equipment	ار	Subcontractor	Sales Tax	
Process CREDITS - SEE DETAILED BREAKOWN AT MCAA RATES	AT MCA/	N RATES												
Labor - Plumber Straight Time Deleted Pipe and Cann. Portions ONLY Pipe Support BASE BID ONLY	-150.9	ᆂᆂ	⋄⋄	82.23 \$ 82.23 \$	(12,408.51)									
Material Core and Main - partial items Etna Carbon Cannister - ECS Quote	444	S S S				\$ 11,11 \$ 55 \$ 18,5(11,110.25 \$ 591.00 \$ 18,500.00 \$	(11,110.25) (591.00) (18,500.00)					\$ (666.62) \$ (35.46) \$ (1,110.00)	
Credit for SOG Pad Size Reduction (15x15 to 14x14)	4x14)													
Labor 1 ea. Carp Foreman 2 ea. Laborer	4 %	¥ ¥	ᡐ᠊ᡐ	70.95 \$ 50.48 \$	(283.80) (403.84)	⋄ ⋄	⋄ ⋄	v, v,	1 1	₩ ₩			๛๛๛	
Material Concrete - Class A Resteel -Nucor Harris see quote	-1	yard LS				\$ 78	180.00 \$ 675.00 \$	(900.00) \$ (675.00)	ı	· •				
Credit for Oct. Tank Pad														
Labor 1 ea. Carp Foreman 1 ea. Laborer	φ φ	ᆄ	⋄ ⋄	70.95 \$ 50.48 \$	(567.60) (403.84)	⋄ ⋄	\$ \$	· · ·	1 1	₩ ₩				
Material Concrete - Class A	ကု	yard				\$	180.00 \$	(540.00) \$	•	₩.			· · · · ·	
Misc Credit Fence DELETE Stone DELETE	7 7					\$ 1,00	1,000.00 \$	(1,000.00)				\$ (6,000.00)		
Grand Total - CREDIT ONLY Quote Grand Total CREDIT ONLY				⋄	(15,218.81) (56,387.63)		∽	(33,316.25)		, ❖		(0'000'0) \$	\$ (1,852.58)	
Process ADDS - SEE DETAILED BREAKOWN AT MCAA RATES	I MCAA R	ATES												
Labor - Plumber Straight Time New Pipe Support	40.0	ħ	↔	82.23 \$	3,289.20								ሳ ሳ ጭ ጭ	
Material PWC Quote -PWC - NET ON QUOTE	1	SJ				\$ 12,76	12,761.41 \$	12,761.41					INC	
Misc Landscaping Mulch ADD Emerald Green Arborvitae ADD	5 10	5 yd 10				\$ \$	40.00 \$ 175.00 \$	200.00			_		, w	



CE 08 - Gaulker PR-C - Delete Carbon Can., Slab Mods, Process Changes, Site Changes

Description	Qty Unit	Unit	Lab Unit	Labor Total Mat Unit	Mat Unit	Material	Material Equip Unit Equipment	Equipment	Subcontractor	Sales Tax
Totals Pre OHP - ADDS ONLY				\$ 3,289.20		\$ 14,711.41		· \$	❖	
OHP Calculations - ADDS ONLY				15%		15%	% .	15%	%5	15%
OHP - ADDS ONLY				\$ 493.38		\$ 2,206.71		· •	· •	· ·
Total Including - ADDS ONLY										
Grand Total - ADDS ONLY				\$ 3,782.58		\$ 16,918.12		· •\$. ◆5•	√γ.
Quote Grand Total ADDS ONLY				\$ 20,700.70						

TOTAL NET CREDIT



8 ½ Mile Relief Drain Drainage District In-System Storage

Scope of Supply

Macomb County Public Works

ECS Project #: 6113 Date: August 9, 2022

ECS Municipal

2201 Taylors Valley Road Belton, Texas 76513

> Office (254) 933-2270 Fax (254) 933-2212

I. EQUIPMENT REMOVED FROM THIS DEDUCTIVE CHANGE ORDER

- Gaukler odor control unit
- Deduct from contract \$18,500
- Terms of payment per original contract



Nucor Harris Rebar Midwest LLC

Change Order No.:

CHANGE ORDER

Sent To Customer

Bid Item No.:	Job No.: 07621192	Job Description: Macomb 8-1/2 Mil	le Relief Drain	Original C/O Date: 08/02/22	Revised C/O Da	ate:
	struction Co LLC unting@weiss-constr	uction.com				
Change Order Description	on: GAULKLER SLAB					
Description			Туре	Quantity	Unit Price	Line Amount
Rebar Grade 60 Black CHANGE DESCRIP AUTHORIZED BY: Z DESIGN DRAWING HARRIS DRAWING ADDITIONAL REGU Revisions to Gaulker	TION:DEDUCT - GA ZACHARY ZECHMEI S AFFECTED: 35 S AFFECTED: R09 ILAR DETAILING HO	STER -S-101 DATED: 7/ 9 DATED: 08-0 DURS: 3	2-2022	-1 LS	\$675.00	\$-675.00
					Total:	\$-675.00 Deletion To Contract Tax: Michigan -Extra
Issued By: Jason Ba	arnstable		Accepted By: Name	e:	(Please Print)	
			Date:		(Signature)	



Bid Proposal for Import Weiss 8.5 Mile ISS Updated Bid

Bid #: 2314824

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1580		GAUKLER			
1580 1590	1	GAUKLER 24 FLGXPE DI PIPE PR 7' PRIMED IMP	EA	3,055,44	3,055,44
1580 1590	1	24 FLGXPE DI PIPE PR 7' PRIMED IMP	EA	3,055.44	3,055.44
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1590 1610 1630	1	24 FLGXPE DI PIPE PR 7' PRIMED IMP NO LENGTH GIVEN 24X10 FLG TEE C110 USA	EA		3,103.66 2,487.10
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1590 1610 1630 1640	1 1 1	24 FLGXPE DI PIPE PR 7' PRIMED IMP NO LENGTH GIVEN 24X10 FLG TEE C110 USA IMPORT QUOTED NOT DOM 24 FLGXFLG DI PIPE PR 2'6" PRIMED IMP 24 MJ TEE C153 IMP	EA EA EA	3,103.66 2,487.10 2,104.67 3,055.44 2,823.34	3,103.66 2,487.10 2,104.67 3,055.44 2,823.34
1590 1610 1630 1640 1650 1660	1 1 1 1	24 FLGXPE DI PIPE PR 7' PRIMED IMP NO LENGTH GIVEN 24X10 FLG TEE C110 USA IMPORT QUOTED NOT DOM 24 FLGXFLG DI PIPE PR 2'6" PRIMED IMP 24 MJ TEE C153 IMP 24 FLGXPE DI PIPE PR 7' PRIMED IMP 24 FLGXPE DI PIPE PR 7' PRIMED IMP	EA EA EA EA	3,103.66 2,487.10 2,104.67 3,055.44	3,103.66 2,487.10 2,104.67 3,055.44 2,823.34
1590 1610 1630 1640 1650 1660	1 1 1 1	24 FLGXPE DI PIPE PR 7' PRIMED IMP NO LENGTH GIVEN 24X10 FLG TEE C110 USA IMPORT QUOTED NOT DOM 24 FLGXFLG DI PIPE PR 2'6" PRIMED IMP 24 MJ TEE C153 IMP 24 FLGXPE DI PIPE PR 7' PRIMED IMP 24 FLG 90 C110 PR IMP 24 FLGXPE DI PIPE PR 7' PRIMED IMP	EA EA EA EA	3,103.66 2,487.10 2,104.67 3,055.44 2,823.34	3,055.44 3,103.66 2,487.10 2,104.67 3,055.44 2,823.34 3,055.44 1,962.79

		In-System	Storage Process P	iping Chang	es				
<u>Qty</u>	<u>Size</u>	<u>Materials</u>	<u>Labor Ea</u>	Lbr Total	Matl Ea	Matl Total	Mat'l Source		
1.0	1ft	24" flanged DI Spool piece	12.10	12.1		\$2,487.10		DELETE	
1.0	24"	Flanged DI 90 elbow	14.86	14.9		\$2,823.34		DELETE	
1.0	24"	Flanged DI TEE	19.49	19.5		\$2,104.67		DELETE	
1.0	24"x10"	flanged reducing tee di 24"x10"	17.09	17.1		\$3,103.66		DELETE	
								DELETE	
21.0	10"	PVC SCH 80 pipe	0.33	6.9		\$200.00		DELETE	
2.0	10"	PVC #150 flange SW	3.98	8.0		\$141.48		DELETE	
1.0	10"	PVC SCH 80 45 elbow	4.16	4.2		\$125.00		DELETE	
1.0	10"	PVC SCH 90 elbow SW	4.26	4.3		\$125.00		DELETE	
				0.0					
1.0	ea	set canister	32.00	32.0				Delete	
1.0	ea	fill canister	32.00	32.0				Delete	
				0.0				CREDIT HOURS	ŝ
1.0	ea	SS pipe support	14.00	14.0				CREDIT - MOD	IFY



Public Works Constructors, LLC 48485 485th Ave. Ashton, NE 68817

(P): (308) 738-2241 (F): (308) 738-2243

E-Mail: zdouthit@pwc-llc.com

CR#:02 – Pipe Stand Change

Project Name: 8-1/2 Mile Relief Drain Drainage District – In – System Storage

PWC Job No.: WC22-01-PO-19

Customer: Weiss Construction Company, LLC

Owner: 8-1/2 Mile Relief Drain Drainage District; Macomb County Public Works

Commission

Engineer: Tetra Tech of Michigan

Drawings: Rev.05 00-D-002, Rev.04 35-C-103, Rev.04 35-C-104, Rev.04 35-D-101, Rev.05

35-S-101, & Rev.05 35-S-103

Specifications: 05 12 00 – Structural Steel

Quote Date: 08/15/2022

Description of CR: This quote includes detailing, fabrication, and (1) delivery to the jobsite of the following Miscellaneous Metals items:

Add:

- (1 EA) Galvanized revised Vent Pipe Support, field welded by others, consisting of the following:
 - O (4 EA) HSS6x6x5/16x6'-2", approximant, HDG posts W/ PL1/4x7 1/2x0'-7 ½" cap plate, shop welded, PL1/4x11x0'-11", base plate, shop welded, (16 EA) AB3/4x0'-8", HDG Anchor Rods, F1554, Grade 55, Weldable, (32 EA) NU ¾ DIA, HDG, A563 Heavy Hex Nuts includes leveling nuts for posts, (16 EA) ¾ DIA, HDG, F436 Hard Flat Washers, (3 EA) Injectable Mortar Hilti HY 200-R V3 330/1/WH Epoxy, and (1 EA) Round Brush HIT-RB ¾ hole cleaning brush.
 - o (4 EA) HSS6x6x5/16x4'-4 ½", approximant, HDG struts.

Subtotal Tax 7%

\$13,015.72 \$911.10



Deduct:

• (1 EA) 10" RSJK # U9210 Adjustable Stainless Steel, SS304, Pipe Saddle Support W/ C/L = 8'-9" Ref. A/35-D-101, & 90-D-500 Gaulker.

Subtotal Tax 7%

(\$1,089.17) (\$76.24)

Furnish Only: \$11,926.55 Sales Tax 7%: \$834.86 Total: \$12,761.41

Exceptions:

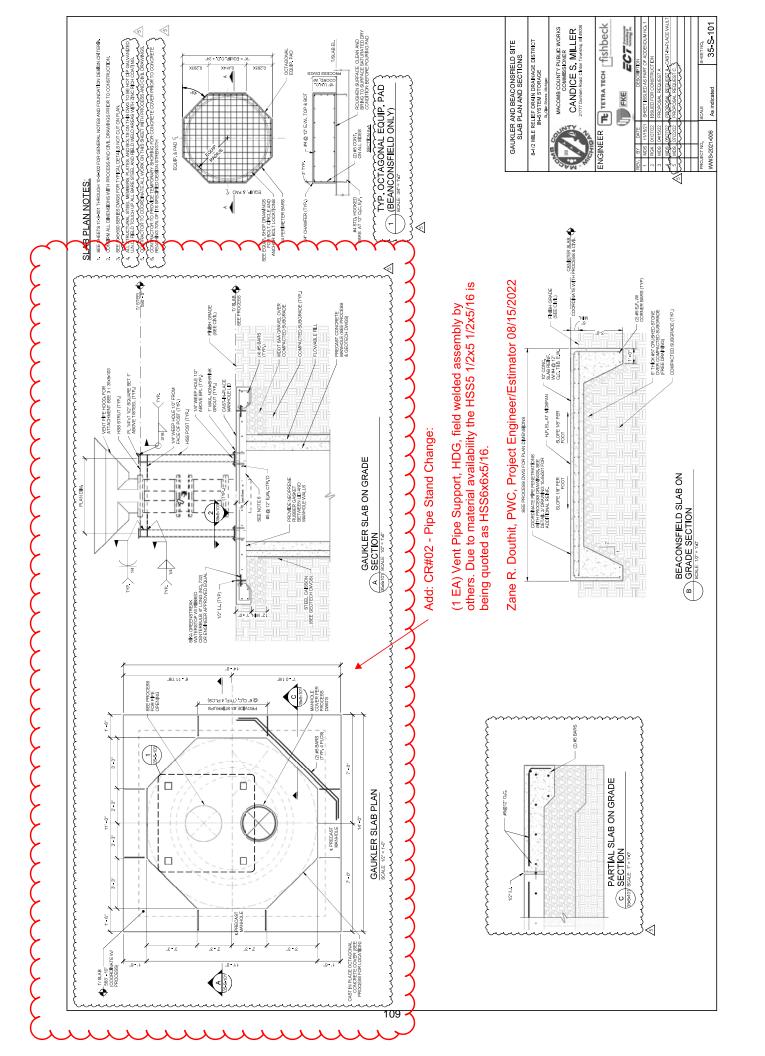
• The HSS6x6x5/16 is being quoted instead of the HSS5 1/2x5 1/2x5/16 due to material availability.

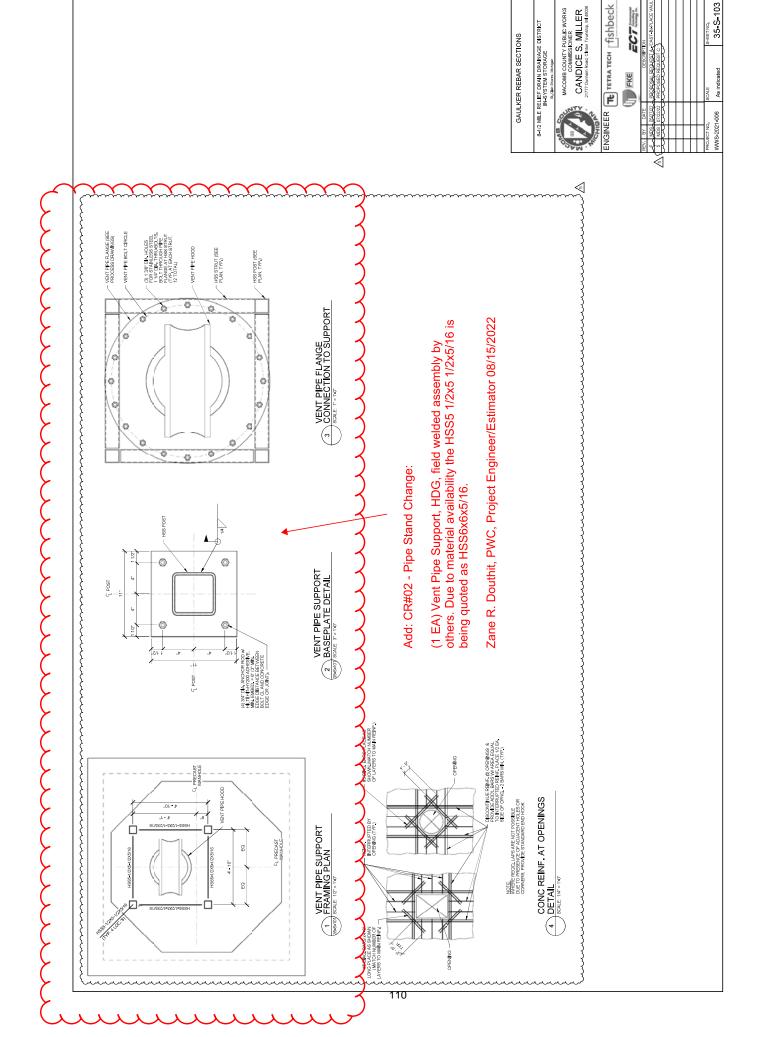
Exclusions:

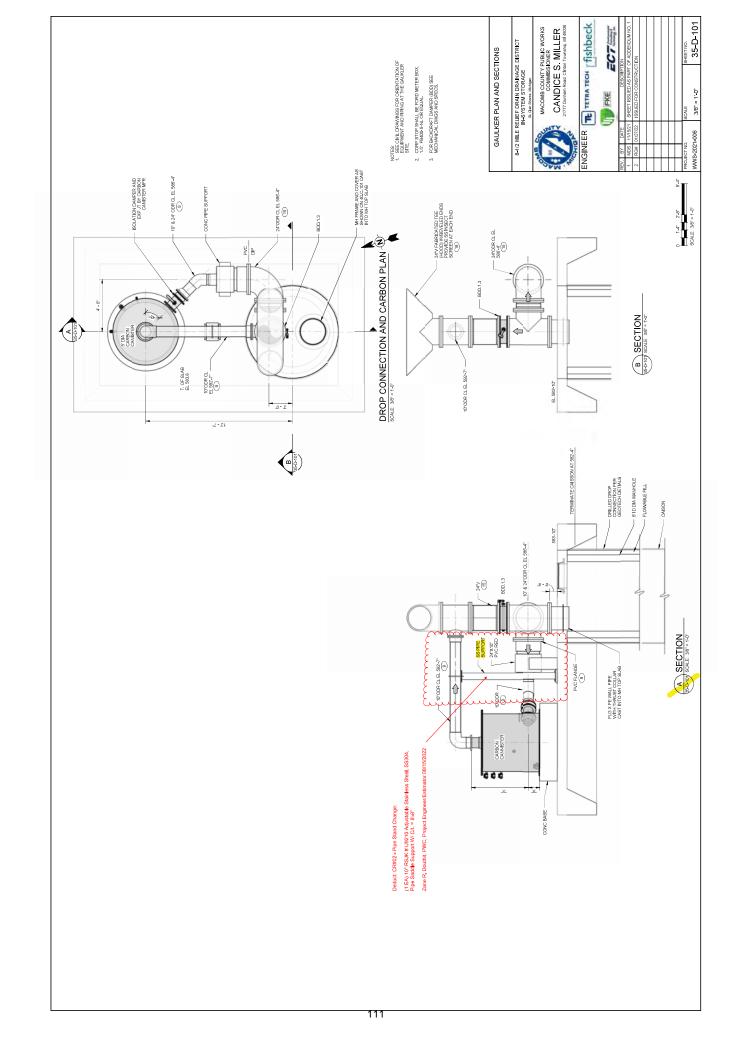
- Erection.
- Engineering/Design Calculations.
- Shop painting over galvanized members.
- Any item or service not listed on quotation.

Zane R. Douthit

08/15/2022









U9210

Adjustable Pipe Saddle Support w/ U-Bolt

The U9210 is a full circle saddle clamps support with u-bolt. This clamp is designed to fit ductile iron pipe but will pull down tight and work on standard iron pipe.

Comes complete with base plate. Available in sizes 2' through 36".

MATERIAL

Saddle and U-Bolt: ASTM A36 Carbon Steel

Collar / Base Cup: ASTM A53 D.O.M. Tubing

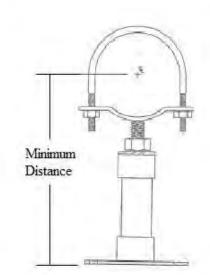
Threaded Stud: ASTM A36 Rolled Thread

Grade ASTM A307

Base Plate: ASTM A36 Sheet Steel - 1/4" Plate

Finishes / Material: Plain, HDG, 304SS & 316SS

Special fabrication is available to meet your requirements.



	Support Size	Pipe O.D.	Strap Size	Threaded Stud	Base Plate	Extension Pipe Required	Minimum Distance to Floor
	2"	2.50"	3/8" x 2"	1" x 6"	4"x6"x1/4"	2" Sch. 40	7"
	2 1/2"	3.00"	3/8" x 2"	1" x 6"	4"x6"x1/4"	2" Sch. 40	7"
	3"	3.96"	3/8" x 2"	1" x 6"	4"x6"x1/4"	2" Sch. 40	7"
	4"	4.80"	1/2" x 2"	1" x 6"	8"x8"x1/4"	2" Sch. 40	7"
	6"	6.90"	1/2" x 2"	1" x 6"	8"x8"x1/4"	2" Sch. 40	7"
	√8 /√	₹9.0 %	1/2"X2\	~ X. X. E. ~ .	8"x8"x1/4"~	2" Sch. 40	~~~~
ک	10"	11.10"	1/2" x 2"	1" x 6"	8"x8"x1/4"	2" Sch. 40	7"
1	كلالا	J13.20"J	1/2"\x\Z"\	\1\\x\5\\\	\8\\x8\\x1\/4\\\	24 Skb.40	كالعما
	14"	15.30"	5/8" x 3"	1 1/2" x 6"	8"x8"x1/2"	3" Sch. 40	9 1/2"

Deduct: CR#02 - Pipe Stand Change:

(1 EA) 10" RSJK # U9210 Adjustable Stainless Steel, SS304, Pipe Saddle Support W/ C/L = 8'-9"



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Wednesday, August 31, 2022

Mr. Timothy Ard Construction Manager Tetra Tech 710 Avis Drive, Suite 100 Ann Arbor, MI 48108 Via- Electronic Delivery (Email)

RE: Tetra Tech 200-16347-19001: Macomb WWS-2021-006; Weiss WC22-01

<u>Subject: PR-B - CE-05 Malvern Site Modifications</u>

Dear Mr. Ard-

Please find the attached quote for Weiss CE-05 in response to PR-B (Malvern site modifications). This is a net credit for the deletion of 2 galvanized pipes with miscellaneous fabrication for nautical detailing. This change does not result in a credit for equipment/operator labor as we are still required to use the equipment to set the work remaining. The paint credit from Signature is provided based on verbal correspondence (they lost power 8/30 and did not send a formal quote). Signature is still required to paint the remaining pipe (still containing multiple trips for applicable coats for specified system).

Please review and let us know any concerns. There are no schedule impacts associated with this change as the Malvern site is not on the critical path and this change was noted early.

Sincerely,

Zachary Zechmeister Project Manager

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: David Weiss



CE 05 - Malvern PR-C - Delete 2 Decorative Pipes and Nautical Detailing

Description	Qty	Unit	Lal	Lab Unit	Labor Total	a	Mat Unit	Material	Equip Unit	Equipment	Subcontractor	ctor	Sales Tax	Тах
Process CREDIT														
Labor - Plumber Straight Time Deleted Setting Pipe Inc. Grouting Base Deleted Rope/Misc Decorative Work Deleted Misc Fab Work	-10.0 -10.0 -5.0	4 4 4	~ ~ ~	82.23 82.23 82.23	\$ (822 \$ (822 \$ (411	(822.30) (822.30) (411.15)								
Material 14" galv pipe 16" galv pipe Connections/misc material Misc Mat (rope, HW)	다 다 다 다	S1 S1 S1 S1				<u> </u>	1,946.49 2,410.80 250.00 1,200.00	\$ (1,946.49) \$ (2,410.80) \$ (250.00) \$ (1,200.00)					<u> </u>	(116.79) (144.65) (15.00) (72.00)
Subcontractor Signature - Paint delete on 14" and 16" only	7	LS									\$ (800.00)	(00)		
Grand Total - CREDIT ONLY Quote Grand Total CREDIT ONLY					\$ (2,055.75) \$ (9,011.48)	.75)		\$ (5,807.29)		· ◆	\$ (800.00)	(00)	∿	(348.44)
Misc														
Totals Pre OHP - ADDS ONLY					•	_ ,					•			
OHP Calculations - ADDS ONLY OHP - ADDS ONLY					❖	15%		15%		15%	v.		↔	15%
Total Including - ADDS ONLY														
Grand Total - ADDS ONLY Quote Grand Total ADDS ONLY					⋄	П		· •		· •			٠	1
TOTAL NET CREDIT					\$ (9,011.48 <u>)</u>	.48)								



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Friday, August 26, 2022

Mr. Timothy Ard Construction Manager Tetra Tech 710 Avis Drive, Suite 100 Ann Arbor, MI 48108 Via- Electronic Delivery (Email)

RE: Tetra Tech 200-16347-19001: Macomb WWS-2021-006; Weiss WC22-01

Subject: DTE Update 8/26/2022 and Schedule Extension Request

Dear Mr. Ard-

Please consider this letter a formal update to our letters dated 4/25/2022, 7/1/2022, 7/8/2022, and 7/20/2022. Weiss has tracked the cost and time related this issue under Change Event 1 (CE-01). The final cost was previously established in CE01 R3 dated 7/20/2022 (detailing direct costs captured by the allowance as well as costs exceeding the allowance). This letter will address the time impact directly attributed to the DTE delay.

As an overview, Weiss initiated contact with DTE and tracked the planning activities as noted in our summary dated 5/13/2022 (attached for reference). After this summary was issued, a meeting was held with DTE 6/1/2022 at the Chapaton Pump Station/RTB. DTE provided commitments to review the work and implement the plans within 8 weeks of this meeting (7/29/2022 +/-).

As the project currently stands, DTE actually started work 8/15/2022 and set the poles within the church parking lot on 8/16/2022. The 13kV primary lines were removed overhead from the project site 8/25/2022. DTE's street lighting division and 2 network providers (WOW and Everstream) should be completing their work by 9/2/2022 based upon verbal correspondence.

This tracks with our current scheduling of our subcontractor, Rohrscheib Sons Caissons, to begin drilling work for the soldier piles on 9/6/2022.

In our baseline schedule submitted on 4/5/2022, reviewed FAC on 5/10/2022, the following activities/dates were established to meet the contractual substantial date of 9/23/2022.

- 1. BCV-1020 Relocation of Utilities by Others Complete
 - a. Baseline schedule assumed completion of 6/22/2022
 - b. Currently scheduled 9/2/2022
 - c. A delay of 69 days per our most recent schedule update (July 31st R2)

This assumed date specifically impacts the critical path as related to starting soldier pile work (clearing overhead power lines/obstructions to maintain MIOSHA specified clearances). This drives completing the excavation, concrete structure, and thus the installation of the ISG system.



Friday, August 26, 2022

As such, the below dates are proposed for schedule extension via change order.

Substantial Completion 09/23/2023 extended to 12/02/2023 Final Completion 11/22/2023 extended to 02/02/2024

We also request the terms of final completion be modified to specifically exclude site restoration (landscaping) as the time of year will not be in proper season for site restoration. We will complete all training, closeout documentation, and interior punchlist. Please advise the contract mechanics of documenting this exception for Spring 2024.

Finally, we must assert the caveat that this schedule extension has the potential to modify the operational demonstration and thus substantial completion of the project. Our baseline schedule assumed 2 rain events (each greater than 0.5" of rain) for activities CLO-1070 and CLO-1080. This determined a window of time from 8/25/2023 through 9/23/2023 that two events were probable based upon NOAA historical data for this month timeframe in September. The operational demonstration has now shifted into November/December and thus the probability of meeting 2 rain events of 0.5" has changed (generally speaking, is less likely).

Weiss intends on providing an operational system ready for beneficial use (including training, manuals, simulation/pre-testing as far as possible) prior to this November/December date (on about 11/2/2023).

Weiss reserves its right for a subsequent schedule extension should the project not experience wet weather of adequate intensity and duration (2 rain events producing rainfall greater than 0.5" each) after the system is completed and ready for beneficial use.

Sincerely,

Project Manager

Zachary Zechmeister

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: Brian Rubel, David Weiss

20chmous



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Friday, May 13, 2022

RE: Tetra Tech 200-16347-19001: Macomb WWS-2021-006; Weiss WC22-01

<u>Subject: RE : DTE Delay – Further Breakdown to Supplement 4/25/2022 Letter</u>

12/23/2021 - Weiss receives DTE contact information from Tetra Tech (after pre-award meeting)

12/29/2021 – Weiss initiates contact with DTE

01/03/2022 - DTE responds, various staff out of office due to Holidays

01/11/2022 - DTE (Steve Eriquez) starts contact (assigned planner)

01/12/2022 – Weiss provides overview of work with excerpt of Contract drawings

01/18/2022 - DTE (Steve Eriquez), Macomb (Steve Wagner), and Weiss (Zach Zechmeister) meet onsite

01/19/2022 – Weiss asked DTE to confirm voltages for determining working clearances per MIOSHA DTE reponds same day (below):

- Cross Streets: Oak Ave & Beaconsfield Ave | Overhead (3) 336 Primary Conductor, 3 Phase, Voltage 4.8kv
- Cross Street: Greater Mach Ave & Gaukler Street | Overhead Primary going EAST (2) #6_WP | Secondary (3) #2_WP | (WP) means Weatherproof, Cover Conductor
- Secondary on the Westside of the Vacant Property Running North & South (4) 1/0 A Covered

01/25/2022 – Weiss tracking down street lighting contact as Steve Eriquez is not responsible Started chasing down with Darin at Eastpointe DPW

02/11/2022 – DTE provides first preliminary drawing showing rough layout but no detailed dimensions See file W.O.#60792406 1 OverheadElectric

02/15/2022 – Second Field Meeting with DTE (Steve Eriquez + assistants) and Weiss (Zach Zechmeister)

At this point DTE noted relocation and new permanent service must be performed in one workflow (thus new OH for permanent service would remain OH across Beaconsfield at the SOE). Options discussed for moving the NEW permanent service underground ONLY but leaving relocation OH as shown on the plans

02/22/2022 – DTE provides plan for reroute (OH) and new feed (underground). Weiss starts procuring cost backup for ductbank for new scope gap (underground across Beaconsfield

See file W.O.#60792406_1A_OverheadElectric See file W.O.#64490107 1b UndergroundElectic

In reviewing these plans, note the new permanent service is fed from a same circuit that the OH that must be relocated. This is critical for later discussions.

03/01/2022 – Weiss was relayed contact information for street lighting courtesy of Eastpointe

03/02/2022 - DTE (Steve Eriquez) now notes he can pickup the streetlighting work

03/03/2022 - Cost discussion is ongoing for the 02/22/2022 plans

03/07/2022 - DTE request for Easement documents and request agreement from DTE

03/07/2022 – Weiss is making final checks on DTE layout provide 2/22/2022 and realizes DTE's proposed pole placement (keeping their OH within ROW) will NOT allow for clearances per MIOSHA. Weiss directs DTE to explore more options. Discussions occurring verbally with Steve about moving underground for all the work around the SOE.

03/30/2022 – DTE issues revised W.O.#64490107_Preliminary_2.



41001 Grand River Ave. Novi, MI 48375 (313) 567-4500

Friday, May 13, 2022

This plan completely changes to underground for the entire area around the corner of Oak/Beaconsfield. It also denotes (see email from Steve on 3/30/2022) the various different circuits, the creation of a double circuit underground, and added complexity. No cost given at this time. Shared update with Owner/Engineer.

04/04/2022 – Weiss shares draft Consumers Energy plan with DTE for coordination efforts. Shared with Owner/Engineer 4/6/2022. Verbal conversations occur through 4/18/2022

04/18/2022 – Weiss receives email from DTE about status to proceed. DTE not releasing cost estimate.

04/22/2022 – Weiss requests quote and timeline is of critical nature

04/22/2022 – Weiss receives verbal cost ROM of \$500k (DTE) and immediately notifies Owner/Engineer

04/22/2022 – Weiss receives and forwards quote with timeline attached

04/25/2022 – Weiss issues letter for potential delay

04/26/2022 – DTE issues 4.26.2022 Propose Relocate Beaconsfield Oak after meeting with Weiss

This plan routes lines behind the homes on existing easement and to the church parking lot. Leaving new service as directional bored underground from Oak pole.

Outline is diagrammatic in nature, not engineered plan. DTE investigating feasibility.

05/05/2022 – DTE slow to respond, DTE engineer out of office until 5/26/2022 05/09/2022 – DTE changes engineer (see email). DTE visiting site 5/12/2022 05/13/2022 – DTE provides understanding of new plan and scope (no drawings)

Current plan 5/13/2022 with new DTE engineer (Marc Maidaniuc), same DTE planner (Steve Eriquez)

- 1. Relocate existing "backbone" to deep easement behind homes (temporary only and must eventually be relocated to the relocation plan on the drawings, once construction is complete)
- 2. Pull new feeder off the other circuit and direction bore into the site. Will also serve as construction power.

BACKGROUND ON MISOHA STANDARDS-

See attached PDF part 10c. Also see DTE overlay sheet for appx layout when everything was overhead.

Page 15 – 1926.1407(a) – Grounding line is not allowable per DTE. Option 2 is 20ft. Option 3 is a table. Per the table, under 50kV, minimum clearance is 10ft. No closer for Contractors.

Under option 2 or 3, additional measurements must be taken to prevent encroachment per 1926.1407(b). Again, this requires minimum distance of 10ft. No provisions exist for clearances closer than 10ft.

CC Weiss: Joe Mulville

CC Macomb: Vincent Astorino, Steve Rozycki, Steven Wagner, Jeremy Jarinski

CC Tetra Tech: Brian Rubel, David Weiss



WEISS CONSTRUCTION COMPANY, LLC.

Presents the following

JULY 31, 2022 R2 – SCHEDULE UPDATE

8.5 MILE RELIEF DRAIN DRAINAGE DISTRICT

PREPARED WITH THE ASSISTANCE OF:



SCHEDULE NARRATIVE

8.5 MILE RELIEF DRAIN DRAINAGE DISTRICT

July 31, 2022 R2 (UPD-01) Schedule Update

EXECUTIVE OVERVIEW

Weiss Construction Company LLC ("Weiss") presents the following July 31, 2022 R2 - Schedule Update for the 8.5 Mile Relief Drain Drainage District project. The July 31, 2022 - Project Schedule is a Critical Path Method ("CPM") schedule in Primavera P6 format version 15.1.

MILESTONES / COMPLETION DATES

MILESTONES	CONTRACT	<u>ACTUAL</u>	PROJECTED
NTP (01/31/2022)	01/31/2022	01/31/2022	-
KICKOFF MEETING HELD	-	02/07/2022	-
DRY WEATHER FLOW ACHIEVED	-	-	8/28/2023
SUBSTANTIAL COMPLETION (600 D AFTER CCD = 9/23/2023)	9/23/2023	-	12/1/2023
FINAL COMPLETION (660 CD AFTER CCD = 11/22/2023)	11/22/2023	-	02/2/2024

The 8.5 Mile Relief Drain Drainage District - July 31, 2022 R2 (UPD-01) Schedule Update indicates that Substantial Completion is projected for December 1, 2023, which is sixty-nine (69) calendar days beyond the contract required Substantial Completion Date September 23, 2023. Final Completion is projected for February 2, 2024, which is seventy-two (72) calendar days beyond the contract required Final Completion Date of November 22, 2023.

SCHEDULE UPDATE	SCD	TOTAL FLOAT	VARIANCE
BASELINE SCHEDULE	9/23/20223	0	0
JULY 31, 2022 R2 (UPD-01)	12/1/2023	-69	69

GENERAL SEQUENCE / WBS

Milestones Submittals

Construction

Preliminary Construction
Primary Sites
Mobilize
Kelly Site
Gaukler Site
Beaconsfield
Malvern Site
Secondary Sites
Eastlawn Site
Greatermack Site
Edgewood Site

O'Connor Site

Closeout

Closeout Required for Substantial Completion Scada Development / Testing & Commissioning Closeout Required for Final Completion

CRITICAL PATH

In the 8.5 Mile Relief Drain Drainage District - July 31, 2022 R2 (UPD-01) Schedule Update, the critical path is driven by the estimated time required for DTE / CONSUMERS to complete the utility relocation work, and continues with the Beaconsfield Main Site Civil work, and the Beaconsfield Main Site Structural work. The critical path concludes with the Beaconsfield ISG Bladder, Bladder Checkout, SCADA Testing & Commissioning, Substantial Completion, Punchlist & Demobilization, Final Completion, and ends with Site Restoration (Post Final Completion).

Substantial Completion (activity MS-1030) is projected for December 1, 2023.

Final Completion (activity MS-1040) is projected for February 2, 2024.

Refer to the Critical Path Bar Chart for the detailed listing and sequence of the critical path.

SCHEDULE FILE INFORMATION

The 8.5 Mile Relief Drain Drainage District - July 31, 2022 R2 (UPD-01) Schedule Update was created by making a copy of the previously submitted 8.5 Mile Relief Drain Drainage District - Baseline Schedule (Filename: 8.5 MILE-BASE). The schedule data date was adjusted to August 1, 2022, and schedule progress was incorporated through July 31, 2022. Weiss then made the following changes to the schedule:

- Added & Deleted Activities: New schedule activities were added by Weiss to track and record the additional time (beyond June 22, 2022) required for DTE / Consumers to complete the utility relocation work at the Beaconsfield Site Main Site. Weiss also added new schedule activities to track and record progress on resubmittals.
- Added & Deleted Activity Relationships: Due to the referenced changes above, the July 31, 2022 includes changes to activity predecessor and successor relationships. Additionally, in the July 31, 2022 Schedule Update, Weiss corrected out of sequence schedule logic for activities adversely affecting the critical path
- Constraint Changes: Since the Owner agreed to allow site restoration work to occur post Final Completion, the Must Finish By Constraint was removed from the project. The Substantial Completion and Final Completion finish constraints remain the same. Weiss also added a Start On or After 01-APR-23 constraint to the Beaconsfield Control Bldg. CMU / BRICKWORK.

For the complete and detailed listing of all changes made to the schedule, refer to the PDF report titled "8.5 MILE RELIEF DRAIN DRAINAGE DISTRICT - JULY 31 2022 R2 - SCHEDULE COMPARISON" included with the Schedule Update.

DELAYS / ISSUE

• In the Baseline Schedule developed by Weiss, Weiss anticipated that DTE / Consumers would complete their utility relocation work (which is required for Weiss to begin construction) at the Beaconsfield Main Site no later than June 22, 2022. Based on the current available information, the utility relocation work is not anticipated to be complete until September 2, 2022, resulting in a schedule slippage of seventy (70) calendar days. In order to track and record this ongoing delay, Weiss added new two (2) new schedule activities. REL-1033 "ADDITIONAL TIME REQ. FOR DTE / CONSUMERS TO RELOCATE UTILITY 6-23 TO 7-29" tracks the actual delay which has occurred beginning June 23, 2022 and ending July 29, 2022. REL-1035 "EST. REMAINING TIME REQ. FOR DTE / CONSUMERS TO RELOCATE UTILITY 7-30 TO 9-2" forecasts the additional delay which is anticipated based on the current available information. Following completion of the utility relocation work by DTE / CONSUMERS, Weiss will submit a formal request for time extension.

CALENDARS

The schedule contains the following calendars:

• 7-DAY – Seven-day calendar, no days are blocked out.

- 5-DAY H Saturdays, Sundays, and Government holidays are blocked out as non-workdays.
- 5-DAY W Saturdays, Sundays, Government holidays and Weather days per NOAA/Historical data* are blocked out as non-workdays. This calendar is used for all activities with the potential for delay due to inclement weather. Additionally, the NOAA/Historical data was used by Weiss to determine the duration required for Testing & Commissioning activities CLO-1070, and CLO-1080. Testing & Commissioning requires two storm events with greater than a .5" of precipitation, therefore the anticipated duration required for two storm events of this magnitude is 30 calendar days.

ACTIVITY CODES

Includes:

- Responsibility Coding
- Site Coding
- Trade Coding

SUBMITTED FILES

- P6 .XER File (Ver. 15.1)
- Schedule Narrative (PDF)
- All Activities Bar Chart (PDF)
- Critical Path Bar Chart (PDF)
- Remaining Activities Bar Chart (PDF)
- Summary Schedule Bar Chart (PDF)

Owner: 8-1	8-1/2 Mile Relief Drain Drainage District	2 Mile Relief I	Drain Drai	nage Dis	trict In-Sys	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	ices - Project N	lo. WWS-20	21-006			Weiss	Construction	Weiss Construction Company, LLC	
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1	BCV-1360 TERS REI BCV-1370 FILL BOX BCV-1380 BACKFILL BCV-1400 PREP / IN STRUCTURAL BST-1020 SEWER \(\) BST-1020 SEWER \(\) BST-1040 SEWER \(SABAT SEVER STRUCTURES SEWER (SAWCUT ENTRY) SLABAT SEVER STRUCTURES STRUCTURE WALLS TO 577 - TIGHT SIDE - FORM TIE POUR STRIP STRUCTURE WALLS TO 577 - TIGHT SIDE - FORM TIE POUR STRIP STRUCTURE WALLS TO 577 - TOHNEL PENS. FORM TIE POUR STRIP STRUCTURE WALLS TO 577 - OPEN SIDE - FORM TIE POUR STRIP STRUCTURE WALLS TO 577 - OPEN SIDE - FORM TIE POUR STRIP STRUCTURE WALLS TO 577 - MATICAL SHORING ABOVE PIPE UR, CURE DECK AT 577 - RETAIN SHORING STRUCTURE WALLS 577 TO 587 FIPS 771 LEVEL CLEAR, RESHORE IF NECESSARY FOR 587 DECK 3X SLAB - FIPS	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		18-Jul-23	25-Jul-23		×			
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15 15 15 15 15 15 15 15	BLA-1020 INSTALL	. SHREDDED HARDWOOD MULCH	2	2			14-Mar-24		×			
Vac De Purpo Port Service Support Savicul Vac De Purpo Port Service Servi	BLA-1030 INSTALL	. BLACK STEEL EDGING	5	2	-	-	21-Mar-24	_	<u> </u>			
AWE ENTRY TO SERVER AND CATA CAMPINED SPACE 5 6 <td>BEACONSFIELD - IS</td> <td>SG - BLADDER</td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	BEACONSFIELD - IS	SG - BLADDER				·						
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NOTING PROPRIORIES AND PROPRIED POR SUBSTRANTIAL COMPLETION REQUIRED FOR SUBSTRANTIAL COMPLETION REQUIRED F		ETE PREP WORK FOR BLADDER / ISG (CRACK REPAIR, SMOOTH WALLS)	2	2		_	11-Sep-23		×			
OUNCOETE BENCH PRAINAGE BOX INSTALLATION PAGE		, DEMO / HYDRODEMO OF PIPE WALL FOR INF / DEF / VENT	10	9		01-Sep-23	18-Sep-23		×			
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S S O% 23-Oct-23 A2 5-Day W		. BLADDER / CLAMP / TORQUE TO SPEC	2	2			20-Oct-23		×			
REQUIRED FOR SUBSTANTIAL COMPLETION ELCOPMENT / TESTING & COMMISSIONING SECONSTITUTE (COMPLETION)		: & LEAK TEST 2448HRS	က	က		23-0d-23	25-Oct-23		<u>N</u>			
5 5 0% 26-Od-23 01-Nov-23 48 5-DAY H Page 2 of 3 TASK filter: CRITICAL PATH.	CLOSEOUT											
5 5 0% 26-Oq.23 01-Nov.23 48 5-DAY H	CLOSEOUT REQU	UIRED FOR SUBSTANTIAL COMPLETION										
5 5 0% 26-Od-23 01-Nov-23 48 5-DaY H	SCADA DEVELOP	PMENT / TESTING & COMMISSIONING										
Page 2 of 3 TASK filter: CRITICAL PATH. TASK filter: CRITICAL PATH.	CLO-1040 BEACON	VS PIELD - ISG BLADDER CHECKOUT	S	2			01-Nov-23		Ξ,			
◆ Milestone	Actual Work	Critical Remaining Work	Page 2	2 of 3				TASK filter: (SRITICAL PATH.			
	Remaining Work										0 @	Oracle Corporatio

Owner:	8-1/2 Mile Relief Drain Drainage District 8-1	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	n-System	Storage De	evices - Projec	at No. WWS-20	121-006		Weiss Construction Company, LLC	, LLC
Engineer:	Tetra Tech of Michigan, PC	8.5 MI	ILE - CRIT	8.5 MILE - CRITICAL PATH	T				Data Date: 01-Aug-22	> I
ACTIVITY ID	ACTIVITY NAME		ORIG DUR	REM %	P START	FINISH	8 ⊭	CALENDAR A I S I Oct I N I D	2023 J.F.I.M.IAprl.M.I.J.Jull.A.I.S.IOctl	2024 Oct N I D Jan F I M No
CLO-1070	DEPENDAN OPERATION DEMONSTRATION - STORM EVENT 2 (>.5" OF PRECIPITATION) DEPENDAN OPERATION DEMONSTRATION STORM EVENT 4 (< 2" OF DESCRIPTION OF THE PROPERTY O		15	15 0%	02-Nov-23	16-Nov-23	69-			
CLOSE	Ď		_			01-06623	P P			
CLO-2010	PERFORM PUNCH LIST & DEMOBILIZE		42	42 0%	04-Dec-23	02-Feb-24	74	5-DAY Н		
127										
Actual Remains	Actual Work Critical Remaining Work Remaining Work A Milestone		Page 3 of 3	8			TASK	TASK filter: CRITICAL PATH.		© Oracle Corporation

	of the mile verse prairie grant age provided in object to the provided of the provided of the provided in the provided of the											_		
Engineer: Tetra Tech of Michigan, PC			8.5 MIL	E - ALL	ACTIVITIE\$	8.5 MILE - ALL ACTIVITIES BAR CHART	RT						Data Date: 01-Aug-22	>
ACTIVITY ID ACTIVITY NAME		ORIG DUR	REM DUR	% OWP	ACTUAL START	ACTUAL FINISH	EARLY START	EARLY	LATE START	LATE FINISH	Ŧ	CALENDAR	2023	2024
8 5 MII E REI IFE DRAIN DRAINAGE DISTRICT - IN SYSTEM STORAGE - IIII Y	TEM STORAGE	É		22 30	HEDIN	34 2022 SCHEDILI E LIPDATE	TH.						A SIO N DI J FIM A M JI J	ASONDJEMA
MIESTONES														
MIL-1000 NOTICE TO PROCEED DATE (NIP DATE = JANUARY 31, 2022)		0	0 10	100% 31	31-Jan-22							7-DAY		
MIL-1010 KICKOFF MEETING HELD		-	0 16	100% 07	07-Feb-22	07-Feb-22						5-DAY H		
MIL-1020 DRY WEATHER FLOW ACHIEVED		0	0	%0				28-Aug-23		26-Jun-23	43	5-DAY H		•
MIL-1030 SUBSTANTIAL COMPLETION DATE (600 CD AFTER CONTRACT COMMENCEMENT DATE = 9/23/2023)	INT DATE = 9/23/2023)	0	0	%0				01-Dec-23		23-Sep-23	69	7-DAY		•
	E = 11/22/2023)	0	0	%0				02-Feb-24		22-Nov-23	-72	7-DAY		*
MIL-1050 RESTORATION COMPLETION DATE (PERMITTED TO OCCURAFTER FINAL COMPLETION DATE)	APLETION DATE)	0	0	%0				21-Mar-24		21-Mar-24	0	7-DAY		•
SUBMITTALS														
DIVISION 00 & 01 - GENERAL REQUIREMENTS														
DIV-01-0001 SUBMIT BONDS & INSURANCE		2	0 16	100% 31	31-Jan-22	04-Feb-22						5-DAY H		
DIV-01-1040 PREPARE & SUBMIT - SUBMITTAL SCHEDULE		15	0	100% 16	16-Mar-22	16-Mar-22						5-DAY H		
DIV-01-1000 PREPARE & SUBMIT - HEALTH & SAFETY PLAN		15	0	100% 00	05-Apr-22	05-Apr-22						5-DAY H		
		10	0	100% 00	05-Apr-22	05-Apr-22						5-DAY H		
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		15	0		11-Apr-22	11-Apr-22						5-DAY Н		
		21	0		12-Apr-22	02-May-22						7-DAY		
NOV-01-1010 REVIEW & APPROVE - HEALTH & SAFETY PLAN		21	0	_	10-May-22	10-May-22						7-DAY		
		21	0	-	10-May-22	10-May-22						7-DAY		
		21	0	٠,٥	10-May-22	10-May-22						7-DAY		
		12	15 (%0			01-Aug-22	19-Aug-22	04-May-23	24-May-23	190	5-DAY H		
		21		%0			20-Aug-22	09-Sep-22	25-May-23	14-Jun-23	278	7-DAY		
		15	15 (%0			12-Sep-22	30-Sep-22	15-Jun-23	06-Jul-23	190	5-DAY H		
DIV-01-1130 REVIEW & APPROVE - TRAINING PLAN		21	21	%0			01-Oct-22	21-Oct-22	07-Jul-23	27-Jul-23	279	7-DAY		
0														
		15	0			01-Jun-22						5-DAY H		
		12			01-Jun-22	01-Jun-22						5-DAY H		
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		21	0		10-Jun-22	10-Jun-22						7-DAY		
		15	+		11-Jul-22		01-Aug-22	10-Aug-22	07-Jun-22	16-Jun-22	98	5-DAY H		
DIV-03-1020 PREPARE & SUBMIT - PRECAST VAULTS - KELLY / MALVE RN		15		%0			01-Aug-22	19-Aug-22	04-Apr-23	24-Apr-23	168	5-DAY H		
DIVJOS 4020 DELVIEW & APPTROVE - PRECASI RISERO - RELET / GAUREER		1 2		020			22-gu-01	22-guA-16	22-IIIU-71	07-JUF22	000	7 7		
DIA-00-1000 REVIEW AATTAOVE - TRECASI VAOL 10 - RELLI / WALVENA		17	7	8/0			22-fin-02	03-deb-27	02-144-02	13-1vidy-23	-	ξ		
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		50	20 (%0			01Aug-22	26-Aug-22	02-Mar-23	29-Mar-23	145	5-DAY H		
		21	21	%0			27-Aug-22	16-Sep-22	30-Mar-23	19-Apr-23	215	7-DAY		
DIV-04-1020 FABRICATE & DELIVER - UNITMASONRY		42	45 (%0			17-Sep-22	28-Oct-22	20-Apr-23	31-May-23	215	7-DAY		
DIVISION 05 - METALS														
DIV-05-1000 PREPARE & SUBMIT - LADDERS		40	40 (%0			01-Aug-22	26-Sep-22	05-Apr-23	31-May-23	169	5-DAY H	-	
Actual Work Critical Remaining Work Remaining Work Milestone				G.	Page 1 of 11				TASK filter:	TASK filter: All Activities				© Oracle Corporation
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the	Owner: 8-1/2 Mile Relief Drain Drainage District	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	nage Distri	ot In-System S	Storage Devic	es - Project N	o. WWS-202	1-006			Weiss	Weiss Construction Company, LLC	
STATE CONTINUES CONTINU			8.5 MILE	ALL ACTIVII	TIES BAR CH	ART						Data Date: 01-Aug-22	>[
Section Accordance 20 mm		-			ACTUAL	EARLY START	EARLY FINISH	LATE START	LATE FINISH		تسبي	2023 2023 2	2024
Section Sect	1	21	-			27-Sep-22	17-0d-22	31-May-23	21-Jun-23	247	`	2	ξ
Pace No. 12		09				01-Aug-22	24-Oct-22	01-Nov-22	01-Feb-23		-DAY H		
Part		21				25-Oct-22	14-Nov-22	02-Feb-23	22-Feb-23	100	7-DAY		
Properties assume the control of						15-Nov-22	20-Mar-23	23-Feb-23	28-Jun-23	100	7-DAY		
Part	DIVISION 08 - OPENINGS												
Part		20				01-Aug-22	26-Aug-22	14-Feb-23	13-Mar-23	L	-DAY H		ļ
Property Reserved No. Prop		21				27-Aug-22	16-Sep-22	14-Mar-23	03-Apr-23	199	7-DAY		
Part		84				17-Sep-22	09-Dec-22	04-Apr-23	26-Jun-23	199	7-DAY		
Property at Supplication Property Control	DIVISION 09 - FINISHES												
1.2		20	H			01-Aug-22	26-Aug-22	06-Mar-23	31-Mar-23	L	-DAY H		
1.5 Septical Explicits Holpistochanks Comings 1.5 Septical Explicits Holpistochanks Comings 1.5 Septical Explicits Holpistochanks Comings 1.5 Septical Explicits Holpistochanks Holpistochanks 1.5 Septical Explicit Explicits 1.5 Septical Explicit Explic		21	-			27-Aug-22	16-Sep-22	02-Apr-23	22-Apr-23	218	7-DAY		
14.5 PECONAL CONSTRUCTION PERPANE S A JUNE NA PERPANE S A J		39				17-Sep-22	25-0d-22	23-Apr-23	31-May-23	218	7-DAY	-0	
Prepare 8 shariff sign standards 40 0 0 0 0 0 0 0 0	DIVISION 13 - SPECIAL CONSTRUCTION												
Part		40		_	03-Jun-22					Ĺ	-DAY H		
SUMPLY A MERCET SIGNAL MORNEY CONDINIE W/ POINTY) 20 0 000% 17-Jan 2 19-Jan 2 19-Ja		21		-	24-Jun-22						7-DAY		
Predictive & Signature Sig		20			11-Jul-22						-DAY H		ļ ļ
Section Reproduce Sect		15			19-Jul-22						-DAY H		
Patricure & Delucer. So Buadro Representation		21				01-Aug-22	09-Aug-22	16-Dec-22	24-Dec-22	137	7-DAY		
2. PLUMBING PREPAME & SUBMIT - PLUMBING VALVES 2. PLUMBING CONTRACTOR CONTRACT	DIV-13-1030 FABRICATE & DELIVER - ISG BLADDER	198				10-Aug-22	23-Feb-23	25-Dec-22	10-Jul-23	137	7-DAY		
PIERDINE & SEIBMIT - PUNBINO NALVESS 174 April 1	DIVISION 22 - PLUMBING												
PECHINA S. PELINGEN CHANGEN SEELECTRINGEN SERVICE SERVINE S. SHEWIT. SERVINE S. SHEWI		20	_			01-Aug-22	26-Aug-22	17.Apr-23	12-May-23	L	-DAY H		ļ
23 - 14 17 18 18 18 18 18 18 18		21				27-Aug-22	16-Sep-22	14-May-23	03-Jun-23	260			
23-HWAC Prepare & Submit - Server & Sherif Verification 20 of 100% of 54pr22 o		40				17-Sep-22	26-Oct-22	04-Jun-23	13-Jul-23	260	7-DAY	-0-	
Perparte & Submit - Sewer & Saylarit - Sewer & Sa	DIVISION 23 - HVAC												
PERPARE & SLBMIT - DEFINER SAHAT VENTILATION 21 0 100% 06 Apr-22 10 Abay-22		20	Н	_	05-Apr-22					Ĺ	-DAY H		
PREPAMER SIMBINIT - TABLICATION 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		21			10-May-22						7-DAY		ļ
PREPARE & SUBMIT - TAB FOR HAVG 90		40			10-May-22						7-DAY		
PREPARE & SUBMIT - DOC SYSTEM FOR HAAC PREPARE & SUBMIT - DOC SYSTEM FOR HAAC PREPARE & SUBMIT - DOC SYSTEM FOR HAAC PREPARE & SUBMIT - DAC SYSTEM FOR HAAC PREPARE & SUBMIT - DAC SYSTEM FOR HAAC PREPARE & SUBMIT - DAC SYSTEM FOR HAAC PREPARE & SUBMIT - HAAC FANS PREPARE & SUBMIT - HAAC FANS PREPARE & SUBMIT - HAAC FANS PREPARE & SUBMIT - LOW-VOLTAGE FRANKS PREPARE & SUBMIT - LOW-VOLTAGE FRANKS PREPARE & SUBMIT - DAW FANS PREPA		30				01-Aug-22	12-Sep-22	24-May-23	06-Jul-23		-DAY H		
PREPARE & SUBMIT - HAVIC FANS 12		30	-			01-Aug-22	12-Sep-22	08-Jun-23	20-Jul-23		-DAY H		
PREPARE & SUBMIT. CAS.FIRE UNIT HEATERS 40 40 0% 014 Mg.22 26-5ep.22 27-feb.23 27-fe		30				01-Aug-22	12-Sep-22	13-Mar-23	21-Apr-23		-DAY H		
-TMB FOR HVAC DDC SYSTEM F		40				01-Aug-22	26-Sep-22	27-Feb-23	21-Apr-23		-DAY H		
DDC SYSTEM FOR HVAC 21 21 0% 0% 13.88p-22 03-0d-22 21-Jul-23 10-Jul-23 311 7-DAY HVAC FANS 21 21 0% 13.88p-22 03-0d-22 22-Apr-23 12-Jul-23 121 7-DAY 7-D		21				13-Sep-22	03-Oct-22	07-Jul-23	27-Jul-23	297	7-DAY		
HVAC FANS HVAC F		21				13-Sep-22	03-Oct-22	21-Jul-23	10-Aug-23	311	7-DAY		
GAS-FIRE UNIT HEATERS 21 27 6% 75.8ep-22 17.0d-22 22-Apr-23 12.AMay-23 207 7.DAY 7-HVACFANS R-ANACFANS 88 88 0% 9 40-Oct-22 29-De-22 13-Amay-23 07-Aug-23 221 7-DAY 7-GAS-FIRE UNIT HEARTS 88 88 0% 0% 18-Oct-22 13-Amay-23 07-Aug-23 221 7-DAY SPRING CITY LIGHTING - KELLY 40 40 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60 40 60		21				13-Sep-22	03-Oct-22	22-Apr-23	12-May-23	221	7-DAY		
CASA-FIRE UNIT HEARTS 87 87 6% 9 04-Oct-22 13-May-23 07-May-23 221 CASA-FIRE UNIT HEARTS 88 88 6% 7 18-Oct-22 13-May-23 07-May-23 207 SPRING CITY LIGHTING - KELLY 40 40 60 7 14-Ag-22 13-May-23 172 172 SPRING CITY LIGHTING - KELLY 40 40 60 60 01-Ag-22 26-Sep-22 16-Feb-23 172-Ag-12 135 LOW-VOLIAGE TRANSFORMERS 40 40 60 60 01-Ag-22 26-Sep-22 16-Feb-23 174-Ag-12 135 Als Remaining Work 40 40 60 60 01-Ag-22 26-Sep-22 16-Feb-23 174-Ag-12 135		21				27-Sep-22	17-0d-22	22-Apr-23	12-May-23	207	7-DAY		
A-CAS-FIRE UNIT HEARTS R8 88 88 0% 14-Oct-22 13-Jan-23 13-May-23 06-Jun-23 707 SPRING CITY LIGHTING - KELLY 40 40 40 60 60 60 66-Sep-22 10-Apr-23 172 172 PANEL BOARDS 40 40 60 60 60 60 60 172 172 172 172 182 182 183 183 183 183 184 184 185 18		87				04-Oct-22	29-Dec-22	13-May-23	07-Aug-23	221	7-DAY		ļ
SPRING CITY LIGHTING - KELLY 40 40 40 60 <		888				18-Oct-22	13-Jan-23	13-May-23	08-Aug-23	207	7-DAY		
PREPARE & SUBMIT - SPRING CITY LIGHTING - KELLY	DIVISION 26 - ELECTRICAL												
PREPARE & SUBMIT - PANELBOARDS 40 40 0% 014Aug-22 26-Sep-22 16-Feb-23 12-Apr-23 135		_				01-Aug-22	26-Sep-22	10-Apr-23	05-Jun-23		-DAY H		
PREPARE & SUBMIT - LOW-VOLTAGE TRANSFORMERS		40				01Aug-22	26-Sep-22	16-Feb-23	12-Apr-23		-DAY H		
Critical Remaining Work A Milestone		40				01-Aug-22	26-Sep-22	16-Feb-23	12-Apr-23		-DAY H		
4				Page 2 of 17	1			TASK filter:	All Activities				
•	Remaining Work Wilestone											© Oracle Corporation	oration

Owner: 8-1/2 Mile Relief Drain Drainage District	8-1/2	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	9		elli ololage D	5001							Date (Constitution of the constitution of the	
Engineer: Tetra Tech of Michigan, PC			8.5 MIL	≣ - ALL AC	8.5 MILE - ALL ACTIVITIES BAR CHART	R CHART							Data Date: 01-Aug-22	>
ACTIVITY ID ACTIVITY NAME		ORIG	REM CO	% ACTUAL COMP START	UAL ACTUAL REINISH		EARLY START	EARLY 1	LATE START	LATE FINISH	Ľ	CALENDAR	2023	2024
DIV-26-1010 REVIEW & APPROVE - SPRING CITY LIGHTING - KELLY		21	21 0	%0		27-8	27-Sep-22 1	17-Oct-22	06-Jun-23	26-Jun-23	252	7-DAY	() ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	2
DIV-26-1070 REVIEW & APPROVE - PANEL BOARDS		21	21 0	%0		27.8	27-Sep-22 1	17-Oct-22	13.Apr-23	03-May-23	198	7-DAY		
DIV-26-1100 REVIEW & APPROVE - LOW-VOLTAGE TRANSFORMERS		21	21 0	%0		27.8	27-Sep-22 1	17-Oct-22	13-Apr-23	03-May-23	198	7-DAY		
DIV-26-1030 PREPARE & SUBMIT - ENGINE GENERATORS		09	0 09	%0		4 ₩	01-Aug-22 2	24-Oct-22	16-Nov-22	15-Feb-23	75	5-DAY H		
DIV-26-1040 REVIEW & APPROVE - ENGINE GENERATORS		21	21 0	%0		25-(25-Oct-22	14-Nov-22	16-Feb-23	08-Mar-23	411	7-DAY		
DIV-26-1020 FABRICATE & DELIVER - SPRING CITY LIGHTING - KELLY		86	98	%0		18-0	18-Oct-22	11-Jan-23	27-Jun-23	20-Sep-23	252	7-DAY		
DIV-26-1080 FABRICATE & DELIVER - PANELBOARDS		88	88	%0		18-0	18-Oct-22	13-Jan-23	04-May-23	30-Jul-23	198	7-DAY		
DIV-26-1110 FABRICATE & DELIVER - LOW-VOLTAGE TRANSFORMERS	(0)	88	88	%0		18-0	18-Oct-22	13-Jan-23	04-May-23	30-Jul-23	198	7-DAY		
DIV-26-1050 FABRICATE & DELIVER - ENGINE GENERATORS		88	88	%0		15-h	15-Nov-22	10-Feb-23	09-Mar-23	04-Jun-23	411	7-DAY		
DIVISION 31 - EARTHWORK						-								
DIV-31-1000 PREPARE & SUBMIT - SUPPORT OF EXCAVATION		40	0 10	100% 16-Mar-22	ar-22 06-Apr-22	r-22	-					5-DAY H		
DIV-31-1010 REVIEW & APPROVE - SUPPORT OF EXCAVATION		21	0 10	100% 07-Apr-22	or-22 10-Jun-22	1-22						7-DAY		
DIV-31-1020 FABRICATE & DELIVER - SUPPORT OF EXCAVATION		40	0 10	100% 16-Mar-22	ar-22 08-Jul-22	1-22						7-DAY		
DIV-31-1030 PREPARE & SUBMIT - SUPPORT OF EXCAVATION REV. 1		40	0 10	100% 10-Jun-22	n-22 29-Jul-22	1-22						5-DAY H		
DIV-31-1040 REVIEW & APPROVE - SUPPORT OF EXCAVATION REV. 1		21	19 9.6	9.52% 30-Jul-22	I-22	410	01-Aug-22 19	19-Aug-22	30-Jun-22	18-Jul-22	-32	7-DAY		
DIVISION 32 - IMPROVEMENTS														
DIV-32-1030 PREPARE & SUBMIT - PLANTING		ıc	2	%0		410	01-Aug-22 08	05-Aug-22	17-Jan-24	23-Jan-24	365	5-DAY H		
DIV-32-1040 REVIEW & APPROVE - PLANTING		ro.	2	%0		₩90	06-Aug-22 10	10-Aug-22	24-Jan-24	28-Jan-24	536	7-DAY		
DIV-32-1050 FABRICATE & DELIVER - PLANTING		7	7 0	%0		4-11	11-Aug-22 17	17-Aug-22	29-Jan-24	04-Feb-24	536	7-DAY		
98.32-1000 PREPARE & SUBMIT - CHAIN LINK FENCES AND GATES		20		%0		410	01-Aug-22 26	26-Aug-22	17.Apr-23	12-May-23	177	5-DAY H		
DIV-32-1010 REVIEW & APPROVE - CHAIN LINK FENCES AND GATES		21	21 0	%0		27.₽	27-Aug-22 16	16-Sep-22	14-May-23	03-Jun-23	260	7-DAY		
DIV-32-1020 FABRICATE & DELIVER - CHAIN LINK FENCES AND GATES		40	40 0	%0		17-8	17-Sep-22 2	26-Oct-22	04-Jun-23	13-Jul-23	260	7-DAY		
DIVISION 33 - UTILITIES														
DIV:33-1000 PREPARE & SUBMIT - WATER / STORM DRAINAGE UTILITIES	IES	20	20 0	%0		410	01-Aug-22 26	26-Aug-22	19-Jun-23	17-Jul-23	221	5-DAY H		
DIV-33-1010 REVIEW & APPROVE - WATER / STORM DRAINAGE UTILITIES	пез	21	21 0	%0		27.₽	27-Aug-22 16	16-Sep-22	18-Jul-23	07-Aug-23	325	7-DAY	+	
DIVISION 40 - PROCESS INTERCONNECTIONS														
DIV 40-1000 PREPARE & SUBMIT - ODOR CONTROL CARBON CANNISTERS	TERS	40	0 10	100% 24-May-22	3y-22 24-May-22	y-22						5-DAY H		
DIV40-1010 REVIEW & APPROVE - ODOR CONTROL CARBON CANS		21	0 10	100% 25-May-22	3y-22 22-Jun-22	-22						7-DAY		
DIV-40-1030 PREPARE & SUBMIT - PLUGS		40	40 0	%0		410	01-Aug-22 26	26-Sep-22	12-Aug-22	07-Oct-22	6	5-DAY H		
		40		%0		410		26-Sep-22	03-Nov-22	05-Jan-23	29	5-DAY H		
		40		%0		410	01-Aug-22 26	26-Sep-22	27-Feb-23	21-Apr-23	142	5-DAY H		
DIV.40-1040 REVIEW & APPROVE - PLUGS		21	21 0	%0		27.8	27-Sep-22 1	17-Oct-22	09-Oct-22	29-Oct-22	12	7-DAY		
		21		%0		27-8		17-Oct-22	06-Jan-23	26-Jan-23	101	7-DAY		
DIV40-1100 REVIEW & APPROVE - PROCESS SHOP DRAWINGS		21	21 0	%0		27-8	27-Sep-22 1	17-Oct-22	24-Apr-23	14-May-23	509	7-DAY		
DIV-40-1110 FABRICATE & DELIVER - PROCESS SHOP DRAWINGS		-	-0	%0		18-0	18-Oct-22	18-Oct-22	15-May-23	15-May-23	209	7-DAY		
DIV40-1020 FABRICATE & DELIVER - ODOR CONTROL CARBON CANS		114	114 0	%0		410	01-Aug-22 2	22-Nov-22	22-Jan-23	15-May-23	174	7-DAY		
DIV-40-1080 FABRICATE & DELIVER - HYDROGATES		185	185 0	%0		18-0	18-Oct-22 2	20-Apr-23	27-Jan-23	30-Jul-23	101	7-DAY		
DIV-40-1050 FABRICATE & DELIVER - PLUGS		214	214 0	%0		18-0	18-Oct-22 19	19-May-23	30-0d-22	31-May-23	12	7-DAY		
CONSTRUCTION														
PRELIMINARY CONSTRUCTION														
PERMITS														
				Page 3 of 11	s of 11				TASK filter: All Activities	l Activities				
Domoining Work														

Owner: 8	8-1/2 Mile Relief Drain Drainage District 8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	Jrain Drair	nage Dist	rict In-System	Storage Device	es - Project No). WWS-202	1-006			Weiss Construction Company, LLC	any, LLC	L
Engineer: T	Tetra Tech of Michigan, PC		8.5 MILE	: - ALL ACTIVI	8.5 MILE - ALL ACTIVITIES BAR CHART	ART					Data Date: 01-Aug-22	22	>
ACTIVITY ID	ACTIVITY NAME	ORIG RI	REM % DUR COMP	% ACTUAL MP START	ACTUAL	EARLY START	EARLY FINISH	LATE START	LATE FINISH	-18	CALENDAR	2023 20	024
PER-1020	PREPARE & SUBMIT - SESC PERMIT	50	0 100%	04-Apr-22	08-Apr-22						5-DAY H		₹ E
PER-1010	PREPARE & SUBMIT - EASTPOINTE PERMIT	20	0 100%	09-Mar-22	-						5-DAY H		
PER-1000	PREPARE & SUBMIT - ST CLAIR SHORES PERMIT	20	0 100%	3% 20-Apr-22	05-Jul-22						5-DAY Н		
UTILITY	RELOCATION									-			
REL-1000	WEISS SUBMITS REQUESTS FOR UTILITY RELOCATION - DTE / CONSUMERS	10	0 100%	3% 29-Dec-21	29-Dec-21						5-DAY H		
REL-1030	DTE / CONSUMERS - EST. DATE OF UTILITY RELOCATION	95	0 100%	30-Dec-21	22-Jun-22						5-DAY H		
REL-1045	WEISS SUBMITS REQUEST WATERMAIN RELOCATION - EASTPOINTE	10	0 100%	07-Jul-22 %C	13-Jul-22						5-DAY Н		
REL-1033	ADDITIONAL TIME REQ. FOR DTE / CONSUMERS TO RELOCATE UTILITY 6-23 TO 7-29	37	0 100%	3-Jun-22	29-Jul-22						7-DAY		
REL-1080	EASTPOINTE - EST. DATE OF WATERMAIN RELOCATION	95	1 98.91%	19-Jul-22		01-Aug-22	01-Aug-22	27-Jun-22	27-Jun-22	-24	5-DAY H	 	ļ
REL-1035	EST. REMAINING TIME REQ. FOR DTE / CONSUMERS TO RELOCATE UTLITY 7-30 TO 9-2	53	33 37.74%	74% 30-Jul-22		01-Aug-22	02-Sep-22	26-May-22	27-Jun-22	-67	7-DAY		
PRIMARY SITES	SITES												
MOBILIZE													
MOB-1010	MOBILIZE / SET JOBSITE TRAILER	10	0 100%	07-Jul-22	07-Jul-22					Ĺ	5-DAY H		
MOB-1000	SUBMIT PRE-CONSTRUCTION PHOTOGRAPHS & VIDEO RECORDING	10	0 100%	07-Jul-22	14-Jul-22						5-DAY H		ļ
MOB-1030	PERFORM DETAILED SITE SURVEY & ESTABLISH CONTROL POINTS	10	10 0%	9,		01-Aug-22	12-Aug-22	24-Jun-22	08-Jul-22	-25	5-DAY H		
MOB-1040	INSTALL OF GEOTECHINCAL MONITORING (BY OTHERS AT GAUKLER & KELLY)	10	10 0%	%		01-Aug-22	12-Aug-22	24-Jun-22	08-Jul-22	-25	5-DAY H□		
MOB-1020	NOTIFY RESIDENTS OF UTILITY OUTAGES & SHUTDOWNS (ONGOING)	306 3	336 0%	% 07-Jul-22		01-Aug-22	01-Dec-23	24-Jun-22	22-Sep-23	74	5-DAY Н		
KELLY SITE	TE												
CIMIL													
%CV-1000										ю	5-DAY W		
KCV-1040	INSTALL E&S CONTROL		0 100%							u)	5-DAY W		
KCV-1020	KELLY SITE - PRELIM UTILITY LOCATIONS	2	0 100%							u)	5-DAY W		
KCV-1010	MOBILIZE & INSTALL MOTTRAFIC CONTROL PLAN	-	0 100%							4)	5-DAY W		
KCV-1060	SHAFT DRILLING & CASING									υ)	5-DAY W		
KCV-1080	CONFINED SPACE ACCESS PROVISIONS									υ)	5-DAY W		
KCV-1090	GROUT ANNULAR SPACE		_	_	_					40	5-DAY W		
KCV-1100	DEMOBILIZE ROHRSCHEIB SONS			-	-					40	5-DAY W		
KCV-1110	HANDMINE TO TOP OF PIPE	+	+	_	-					0	5-DAY W		
KCV-1120	PKEP KING, LIE VIEEL		0 100%	22-nuc-11 %c							5-DAY W		
KCV1060	POUR KING + CORE IIME INGTALL TREE DEOTECTION EENDE	0 4		_	77-Inc-c1	04 A 100	04 Aug 22	24 Con 23	24 Con 22	-	DAY W		
KCV-1150	CONFIRM DEPTH MEASI REMENT & FIFT DOLD IF NECESSARY		0%	6 ~		01-Aug-22	02-Aug-22	31-lul-23	01-Aug-23	219	5-DAY W		
KCV-1070	REMOVE & REPLACE TREE (2" DEC TREE)			9		02-Aug-22	02-Aug-22	22-Sep-23	22-Sep-23		5-DAY W		
KCV-1030	UNLOAD PRECAST RISERS	-	1 0%	9		31-Aug-22	01-Sep-22	28-Jul-23	28-Jul-23	199 5	5-DAY W		
KCV-1140	CORE PIPE	2	2 0%	9		01-Sep-22	06-Sep-22	31-Jul-23	01-Aug-23	199	5-DAY W		
KCV-1160	INSTALL PRECAST RISERS	2	2 0%	9,		06-Sep-22	08-Sep-22	02-Aug-23	03-Aug-23	199 5	5-DAY W		
KCV-1170	EXCAVATE & INSTALL CARBON CANISTER VAULT	2	2 0%	9.		08-Sep-22	12-Sep-22	10-Aug-23	11-Aug-23	202 5	5-DAY W		
KCV-1180	GROUT PRECAST-CASING ANNULAR SPACE	2	2 0%	%		08-Sep-22	16-Sep-22	04-Aug-23	11-Aug-23	199 5	5-DAY W		
PROCESS	PROCESS EQUIPMENT												
KPR-1000			3 0%	%		16-Sep-22	22-Sep-22	14-Aug-23			5-DAY W		
KPR-1010	INSTALL 18" VENT LINE	2	2 0%	%		22-Sep-22	30-Sep-22	18-Aug-23	25-Aug-23	199 5	5-DAY W		
								_					-

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TASK filter: All Activities

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Owner: 8-1/2 Mile Rellef Drain Drainage District	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	nage Distr	ict In-System	Storage Devic	es - Project No	o. WWS-202	900-1		M	Weiss Construction Company, LLC	
Engineer: Tetra Tech of Michigan, PC		8.5 MILE	- ALL ACTIVI	8.5 MILE - ALL ACTIVITIES BAR CHART	ART					Data Date: 01-Aug-22	> >
ACTIVITY ID ACTIVITY NAME	ORIG F	REM %	P START	ACTUAL	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TF CALENDAR	2023 2024	2024
KPR-1020 INSTALL 4" ODR LINE	8	3 0%			30-Sep-22	05-Oct-22	28-Aug-23	30-Aug-23	199 5-DAY W	0 0 0	
KPR-1030 INSTALL PIPE SUPPORTS	m	3 0%			05-Oct-22	10-Oct-22	31-Aug-23		199 5-DAY W	~	
KPR-1040 INSTALL CARBON CANISTER	8	3 0%			10-Oct-22	14-Oct-22	06-Sep-23	08-Sep-23	199 5-DAY W	~	
	2	2 0%			14-Oct-22	18-Oct-22	11-Sep-23	12-Sep-23	199 5-DAY W	~	
KPR-1060 TIE-IN PIPES TO CARBON CANISTER	-	1 0%			18-Oct-22	20-Oct-22	14-Sep-23	14-Sep-23	199 5-DAY W	-	
	2	2 0%			20-Oct-22	27-Oct-22	15-Sep-23	22-Sep-23		~	
	2	2 0%			20-Oct-22	27-Oct-22	15-Sep-23	22-Sep-23		· · · · · · · · · · · · · · · · · · ·	
KPR-1090 INSTALL VENTED LIGHT POSTS	2	2 0%			12-Jan-23	13-Jan-23	21-Sep-23	22-Sep-23	154 5-DAY W	~	
GAULKER SITE											
CML											
GCV-1000 PROBE LOCATING - GAUKLER SITE	5	0 100%	% 27-Apr-22	29-Apr-22					5-DAY W	 	
GCV-1040 INSTALL E&S CONTROL	-	0 100%	% 23-May-22	23-May-22					5-DAY W	~	
GCV-1050 REMOVE TREE & BUSHES	-	0 100%	% 17-Jun-22	17-Jun-22					5-DAY W	~	
GCV-1020 MOBILIZE WEISS ASSIST CRANE FROM KELLY	S	0 100%	% 23-Jun-22	23-Jun-22					5-DAY W	~	
GCV-1010 MOBILIZE ROHRSHEIB FROM KELLY	-	0 100%	% 22-Jun-22	24-Jun-22					5-DAY W		
GCV-1060 SHAFT DRILLING & CASING	ß	0 100%	% 27-Jun-22	27-Jun-22					5-DAY W		
GCV-1080 GROUT ANNULAR SPACE	2	0 100%	% 27-Jun-22	28-Jun-22					5-DAY W		
GCV-1070 CONFINED SPACE ACCESS PROVISIONS	2	0 100%	% 28-Jun-22	28-Jun-22					5-DAY W	N	
GCV-1090 DEMOBILIZE ROHRSCHEIB SONS	r.	0 100%	% 28-Jun-22	28-Jun-22					5-DAY W		
GCCV-1100 HANDMINE TO TOP OF PIPE	ß	0 100%	% 29-Jun-22	29-Jun-22					5-DAY W	~	
O _{GCV-1110} PREP RING, TIE STEEL	2	0 100%	% 29-Jun-22	01-Jul-22					5-DAY W	~	
GCV-1130 POUR RING + CURE TIME	2	0 100%	% 06-Jul-22	06-Jul-22					5-DAY W	≥	
GCV-1030 UNLOAD PRECAST RISERS	_	1 0%			31-Aug-22	01-Sep-22	08-Jul-22	08-Jul-22	-33 5-DAY W	~	
GCV-1140 CORE PIPE	2	2 0%			01-Sep-22	06-Sep-22	17-Aug-23	18-Aug-23	210 5-DAY W		
GCV-1150 CONFIRM DEPTH MEASUREMENT & FIELD CUT BOTTOM IF NECESSARY	2	2 0%			01-Sep-22	06-Sep-22	17-Aug-23	18-Aug-23	210 5-DAY W		
GCV-1170 INSTALL PRECAST RISERS	2	2 0%			06-Sep-22	08-Sep-22	21-Aug-23	22-Aug-23	210 5-DAY W		
GCV-1120 REMOVE AND REPLACE CONCRETE SIDEWALK	7	%0 2			01-Sep-22	13-Sep-22	28-Aug-23	06-Sep-23	216 5-DAY W		
GCV-1180 PREP SITE, TIE STEEL, POUR PAD	2	2 0%			08-Sep-22	16-Sep-22	24-Aug-23		210 5-DAY W	0 ~	
	-	1 0%			16-Sep-22	19-Sep-22	01-Sep-23		211 5-DAY W	~	
	7	2 0%			13-Sep-22	26-Sep-22	07-Sep-23			_	
GCV-1200 PLACE 3" TOPSOIL, SEED AND MULCH	2	2 0%			16-Sep-22	26-Sep-22	11-Sep-23		216 5-DAY W		
GCV-1210 INSTALL GRASS BLOCK PAVERS	3	3 0%			26-Sep-22	30-Sep-22	19-Sep-23	22-Sep-23	216 5-DAY W	N	
	2				23-Nov-22	28-Nov-22	31-Aug-23			>	
GPR-1010 INSTALL PIPE SUPPORTS	8	3 0%			29-Nov-22	01-Dec-22	05-Sep-23	07-Sep-23	170 5-DAY W	2	
GPR-1020 INSTALL 24" ODR LINE	2	2 0%			02-Dec-22	09-Dec-22	08-Sep-23	15-Sep-23	170 5-DAY W		
GPR-1030 INSTALL 10" ODR LINE	2	2 0%			12-Dec-22	19-Dec-22	18-Sep-23	25-Sep-23	170 5-DAY W		
GPR-1040 PRESSURE TEST PIPES	2	2 0%			20-Dec-22	21-Dec-22	26-Sep-23	28-Sep-23	170 5-DAY W	~	
GPR-1050 INSTALL ISOLATION DAMPER AND EXPANSION JOINT	-	1 0%			22-Dec-22	22-Dec-22	29-Sep-23	29-Sep-23	170 5-DAY W		
GPR-1060 TIE-IN 10"AND 24" ODR LINE TO CARBON CANISTER	2	2 0%			27-Dec-22	28-Dec-22	02-Oct-23	03-Oct-23		~	
GPR-1070 TEST & INSPECT PROCESS EQUIPMENT	2	2 0%			29-Dec-22	05-Jan-23	04-Oct-23	10-Oct-23	170 5-DAY W	~	
BEACONSFIELD SITE											
			Page 5 of 11	11			TASK filter: All Activities	All Activities			
Remaining Work										00	© Oracle Corporation

Owner: 8-1/2 Mile Relief Drain Drainage District	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	ו Drainag	le District	In-System St	torage Devices	s - Project No). WWS-202	21-006			Weiss	Weiss Construction Company, LLC	K
Engineer: Tetra Tech of Michigan, PC		ő	5 MILE - A	ILL ACTIVITI	8.5 MILE - ALL ACTIVITIES BAR CHART	ıRT						Data Date: 01-Aug-22	>
ACTIVITY ID ACTIVITY NAME	ORIG	G REM	% COMP	ACTUAL START	ACTUAL	EARLY START	EARLY	LATE START	LATE FINISH	<u></u>	CALENDAR	202	2024
BEACONSFIELD - MAIN SITE													M M
GIVIL BROBE I OCATING. BEACONSFIELD SITE		_	100%	27.Apr.22	29.Anr.22						W YACZ		
	0, 0,		100%	11-Jul-22	11-Jul-22						5-DAY W		
	0		%0				02-Sep-22		27-Jun-22	-67	7-DAY		
BCV-1030 REMOVE 12" STORMWATER SEWER	2	2	%0			06-Sep-22	07-Sep-22	28-Jun-22	29-Jun-22	42	5-DAY W		
BCV-1040 REMOVE & CAP 1.25" GAS MAIN	е е	₆	%0			06-Sep-22	08-Sep-22	28-Jun-22	30-Jun-22	42	5-DAY W		
BCV-1100 REMOVE 8" WATER MAIN (2 LOCATIONS)	6	-	%29.99	19-Jul-22		09-Sep-22	09-Sep-22	01-Jul-22	01-Jul-22	42	5-DAY W		
BCV-1050 REMOVE 24" STORMWATER SEWER	2	2	%0			08-Sep-22	09-Sep-22	30-Jun-22	01-Jul-22	42	5-DAY W		
BCV-1060 CONFIRM BEACONFIELD LAYOUT	C)	2	%0			06-Sep-22	12-Sep-22	11-Jul-22	18-Jul-22	-34	5-DAY W		
BCV-1070 ESTABLISH BEACONFIELD TEMP POWER	Ω.	S	%0			06-Sep-22	12-Sep-22	30-Jun-22	07-Jul-22	40	5-DAY W		
BCV-1080 BEACONSHELD MOT - LONG TERM TRA FFIC CONTROL	ഗ	ro.	%0			06-Sep-22	12-Sep-22	11-Jul-22	18-Jul-22	-34	5-DAY W		
BCV-1090 SITE FENCING & SITE LAYDOWN MOBE	ß	ις	%0			06-Sep-22	12-Sep-22	11-Jul-22	18-Jul-22	-34	5-DAY W		
BCV-1110 REMOVE ABANDONED 6" GAS MAIN	m	ო	%0			12-Sep-22	15-Sep-22	05-Jul-22	07-Jul-22	42	5-DAY W	_	
BCV-1120 REMOVE EXISTING SEWER MANHOLE	-	-	%0			16-Sep-22	16-Sep-22	08-Jul-22	08-Jul-22	42	5-DAY W		
BCV-1130 MOBILIZE ROHRSHEIB FROM GAUKLER	2	2	%0			19-Sep-22	20-Sep-22	11-Jul-22	12-Jul-22	42	5-DAY W		
BCV-1140 INSTALL RIB & BOARD (6 LOCATIONS) - ENTRY WEATHER DEPENDANT	ιΩ	ß	%0			19-Sep-22	26-Sep-22	11-Jul-22	18-Jul-22	42	5-DAY W		
BCV-1150 SOLDIER PILES	=======================================	Ξ	%0			27-Sep-22	13-Oct-22	19-Jul-22	04-Aug-22	42	5-DAY W		
BCV-1160 COMPLETE CONCRETE PAVEMENT REMOVAL TO LIMITS REQUIRED	ß	ß	%0			14-Oct-22	21-0d-22	05-Aug-22	12-Aug-22	42	5-DAY W		
U BCV-1170 ERECT HANDRAIL, PREP ACCESS	e		%0			24-Oct-22	26-Oct-22	15-Aug-22	18-Aug-22	45	5-DAY W		
	S		%0			27-Oct-22	03-Nov-22	19-Aug-22	26-Aug-22	45	5-DAY W		
	8		%0			04-Nov-22	09-Nov-22	29-Aug-22	31-Aug-22	-42	5-DAY W		
	2	ည	%0			10-Nov-22	18-Nov-22	01-Sep-22	08-Sep-22	45	5-DAY W		
BCV-1210 TERS INSTALL 581.5 (LEVEL 2 OF 3)	ro.	2	%0			21-Nov-22	29-Nov-22	09-Sep-22	16-Sep-22	42	5-DAY W		
BCV-1220 EXCAVATE 580 TO 573 - TOP OF PIPE	ß	ß	%0			30-Nov-22	06-Dec-22	19-Sep-22	26-Sep-22	42	5-DAY W		
BCV-1230 TERS INSTALL 573 (LEVEL 3 OF 3)	co.	ις	%0			08-Dec-22	15-Dec-22	27-Sep-22	04-Oct-22	42	5-DAY W		
BCV-1240 EXCAVATE TIGHT SIDE CROWN TO SPRING	S	2	%0			16-Dec-22	22-Dec-22	05-Oct-22	11-Oct-22	42	5-DAY W		
	9		%0			16-Dec-22	22-Dec-22	05-Oct-22	11-Oct-22	45	5-DAY W		
	S		%0			27-Dec-22	03-Jan-23	13-Oct-22	20-0d-22	45	5-DAY W		
	10	-	%0			04-Jan-23	19-Jan-23	21-Oct-22	04-Nov-22	45	5-DAY W		
	10		%0			20-Jan-23	03-Feb-23	07-Nov-22	23-Nov-22	45	5-DAY W		
	20		%0			06-Feb-23	07-Mar-23	28-Nov-22	29-Dec-22	45	5-DAY W		
	m		%0			09-Mar-23	13-Mar-23	30-Dec-22	04-Jan-23	45	5-DAY W		
	e	-	%0			02-Jun-23	06-Jun-23	27-Mar-23	29-Mar-23	45	5-DAY W		
	2		%0			08-Jun-23	09-Jun-23	30-Mar-23	31-Mar-23	45	5-DAY W		
	2		%0			12-Jun-23	13-Jun-23	03-Apr-23	04-Apr-23	45	5-DAY W		
BCV-1340 BACKFILL-FLOW FILL TO 577'	8	ო	%0			15-Jun-23	19-Jun-23	06-Apr-23		45	5-DAY W		
BCV-1350 BACKFILL 577 TO 581	ις.	ß	%0			18-Jul-23	25-Jul-23	08-May-23	15-May-23	42	5-DAY W		
	2		%0			27-Jul-23	28-Jul-23	16-May-23		45	5-DAY W		
	2	2	%0			31-Jul-23	01-Aug-23	19-May-23		45	5-DAY W		
BCV-1380 BACKFILL 581.5 TO 587 - JUST BELOW FINISH GRADE, STEP / PROTECT	Ω.	ro	%0			02-Aug-23	08-Aug-23	23-May-23	31-May-23	42	5-DAY W		
BCV-1390 CUT OFF SOLIDER PILES 5' BELOW GRADE, LAGGING	ß	2	%0			02-Aug-23	08-Aug-23	12-Jun-23	19-Jun-23	<u>ئ</u>	5-DAY W	. = .	
Actual Work Critical Remaining Work				Page 6 of 11				TASK filter:	TASK filter: All Activities				
Remaining Work												© Oracle Corporation	Sorporation

Owner:	8-1/2 Mile Relief Drain Drainage District 8-	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	Orainage	District In	-System Ston	age Device	s - Project No	. WWS-202	1-006			Weiss	Construction	Weiss Construction Company, LLC	
															>
Engineer:	Tetra Tech of Michigan, PC		8.51	MILE - AL	8.5 MILE - ALL ACTIVITIES BAR CHART	S BAR CHA	RT						Data Date: 01-Aug-22	-Aug-22	
ACTIVITY ID	ACTIVITY NAME	ORIG	NEM DUR	% COMP	ACTUAL START	ACTUAL FINISH	EARLY START	EARLY FINISH	LATE START	LATE FINISH	Ľ	CALENDAR		2023 	23 2024 I.A.ISLOINIDIII.EIM
BCV-1400	1400 PREP / INSPECT TO CONNECT TO LIVE SEWER (SAWCUT ENTRY)	0	0	%0				08-Aug-23		31-May-23	42	5-DAY W		•	
BCV-1410	1410 INSTALL ADA PLATES (2 LOCATIONS)	ω	2	%0			10-Aug-23	17-Aug-23	20-Jun-23	27-Jun-23	ج ا	5-DAY W			
BCV-		ß	2	%0			18-Aug-23	25-Aug-23	28-Jun-23	05-Jul-23	ج ا	5-DAY W			
BCV-	BCV-1430 INSTALL BOLLARDS	ιΩ	2	%0			28-Aug-23	01-Sep-23	06-Jul-23	13-Jul-23	43	5-DAY W			
BCV-	BCV-1440 INSTALL SCREEN FENCE	ω	2	%0			05-Sep-23	11-Sep-23	14-Jul-23	21-Jul-23	-31	5-DAY W			
BCV-1450	1450 REMOVE & REPLACE CURB AND GUTTER	ro	2	%0			12-Sep-23	19-Sep-23	24-Jul-23	31-Jul-23	ج ب	5-DAY W			
BCV-1460	1460 REMOVE & REPLACE CONCRETE SIDEWALK / PAVEMENT	ß	S	%0			21-Sep-23	28-Sep-23	15-Sep-23	22-Sep-23	ო	5-DAY W			
SITE															
BSI-1000		2	2	%0			21-Sep-23	28-Sep-23	01-Aug-23	07-Aug-23	-31	5-DAY W			
BSI-1010	010 INSTALL 3/4" COPPER WATER SERVICE	S	2	%0			29-Sep-23	05-Oct-23	08-Aug-23	15-Aug-23	-31	5-DAY W			
STRU	STRUCTURAL														
BST-1000	1000 3' BASE SLAB ATSEWER STRUCTURES	7	7	%0			14-Mar-23	23-Mar-23	05-Jan-23	17-Jan-23	45	5-DAY W			
BST	BST-1010 18" SLAB AT BY PASS STRUCTURE	ω	c)	%0			24-Mar-23	30-Mar-23	10-Mar-23	17-Mar-23	φ	5-DAY W			
BST-1020		12	12	%0			24-Mar-23	11-Apr-23	18-Jan-23	03-Feb-23	45	5-DAY W			
BST-1030	1030 SEWER STRUCTURE WALLS TO 577 - TUNNEL PENS. FORM TIE POUR STRIP	7	7	%0			13-Apr-23	24-Apr-23	06-Feb-23	16-Feb-23	45	5-DAY W			
BST-1040	1040 SEWER STRUCTURE WALLS TO 577 - OPEN SIDE - FORM TIE POUR STRIP	10	10	%0			25-Apr-23	08-May-23	17-Feb-23	02-Mar-23	42	5-DAY W			
BST-1050	1050 GATE STRUCTURE WALLS - MASS - FORM TIE POUR STRIP	10	10	%0			25-Apr-23	08-May-23	17-Feb-23	02-Mar-23	42	5-DAY W			
BST-1060	1060 BYPASS STRUCTURE WALLS - FORM TIE POUR STRIP	ω	2	%0			09-May-23	16-May-23	20-Mar-23	24-Mar-23	-33	5-DAY W			
BST-1070	1070 FORM DECKAT 577 - NOTE - CRITICAL SHORING ABOVE PIPE	7	7	%0			09-May-23	19-May-23	03-Mar-23	14-Mar-23	45	5-DAY W			
BST-1090	1090 BYPASS STRUCTURE DECK - FORM TIE POUR STRIP	7	7	%0			18-May-23	30-May-23	14-Apr-23	25-Apr-23	-21	5-DAY W		•	
0801-T88 4	1080 TIE, POUR, CURE DECKAT 577 - RETAIN SHORING	7	7	%0			22-May-23	01-Jun-23	16-Mar-23	24-Mar-23	45	5-DAY W		•	
BST-1100	1100 INSTALL VENT STACK SLAB	ß	2	%0			31-May-23	06-Jun-23	26-Apr-23	02-May-23	-21	5-DAY W			
BST-1110	1110 LAYOUT PIPE PENETRATIONS, SLEEVES ETC AT 587	-	-	%0			20-Jun-23	20-Jun-23	21Apr-23	21-Apr-23	-36	5-DAY W		 - <u>-</u>	
BST-1120	SEWER STRUCTURE WALLS 577 TO 587 FTPS	7	7	%0			20-Jun-23	29-Jun-23	11-Apr-23	21-Apr-23	45	5-DAY W			
BST-1130	1130 STRIP 577 LEVEL CLEAR, RESHORE IF NECESSARY FOR 587 DECK	7	7	%0			30-Jun-23	11-Jul-23	24-Apr-23	02-May-23	45	5-DAY W			
BST-1140	1140 587 DECK SLAB - FTPS	က	ო	%0			13-Jul-23	17-Jul-23	03-May-23	05-May-23	42	5-DAY W			
MEC	MECHANICAL														
BME	BME-1000 INSTALL SLUICE GATES	ις	ß	%0			18-Jul-23	25-Jul-23	02-Jun-23	09-Jun-23	-27	5-DAY W			
BME	BME-1010 INSTALL INSTRUMENTATION	n	က	%0			27-Jul-23	31-Jul-23	12-Jun-23	15-Jun-23	-27	5-DAY W	 		
BME	BME-1020 INSTALL CARBON CANISTER	က	ო	%0			01-Aug-23	03-Aug-23	16-Jun-23	20-Jun-23	-27	5-DAY W			
BME		2	2	%0			04-Aug-23	11-Aug-23	22-Jun-23	28-Jun-23	-27	5-DAY W		Q .	
BME	BME-1040 INSTALL 1'VENT/ 1"A/ 2" CS / 4" IF / DF LINE	ß	2	%0			14-Aug-23	21-Aug-23	29-Jun-23	06-Jul-23	-27	5-DAY W			
BME	BME-1050 INSTALL 10" ODRLINE	ß	2	%0			22-Aug-23	29-Aug-23	07-Jul-23	14-Jul-23	-27	5-DAY W			
BME	BME-1060 INSTALL PIPE SUPPORTS	ß	2	%0			30-Aug-23	06-Sep-23	17-Jul-23	24-Jul-23	-27	5-DAY W			
BME	BME-1070 PRESSURE TEST LINES	5	2	%0			07-Sep-23	14-Sep-23	25-Jul-23	01-Aug-23	-27	5-DAY W			
BME	BME-1080 TIE-IN COMPLETE	S	2	%0			15-Sep-23	22-Sep-23	02-Aug-23	08-Aug-23	-27	5-DAY W			
BME	BME-1090 TESTING / STARTUP OF EQUIPMENT	ß	2	%0			25-Sep-23	02-Oct-23	10-Aug-23	17-Aug-23	-27	5-DAY W			
ELEC	ELECTRICAL														
BEL-		ιΩ	2	%0			18-Jul-23	25-Jul-23	05-Jun-23	12-Jun-23	-56	5-DAY W			
BEL-		10	10	%0			27-Jul-23	10-Aug-23	13-Jun-23	28-Jun-23	-56	5-DAY W			
BEL-1020		ß	2	%0			11-Aug-23	18-Aug-23	29-Jun-23	06-Jul-23	-56	5-DAY W		-	
BEL-	BEL-1030 INSTALL PUSHBUTTON STATION FOR GATE ACTUATORS	2	2	%0			21-Aug-23	28-Aug-23	07-Jul-23	14-Jul-23	-26	5-DAY W		-	
									_						
A Ac	Actual Work Critical Remaining Work Remaining Work Milestone				Page 7 of 11				TASK filter:	TASK filter: All Activities				@	© Oracle Corporation

Figure Terra Tech of Michigan, PC ACTIVITY NAME	ORIO DING CONTROL ON C	8.5 MILE - A EM	8.5 MILE - ALL ACTIVITIES BAR CHART EM % ACTUAL FORD START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH COMP START FINSH FIN	BAR CHART	ART EARLY START		t t			Data Da	Data Date: 01-Aug-22		> >
ACTIVITY NAME	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Ļ	t	t				0	_	
BEL-1040 INSTALL CONDUITS BEL-1060 PLUL POWERAND CONTROL WIRING BEL-1070 TESTRING OUT OF THE ELECTRICAL SYSTEM LANDS CAPING INSTALL SHRABS / TREES BLA-1020 INSTALL BHACK STEEL EDGING BLA-1030 INSTALL BHACK STEEL EDGING EXCANATE, SUBGRADE PREP CST-1030 CONTROL BUILDING DRILLED PIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1030 GRADE BEADRAS / WALLS - FTFS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			FINISH		FINISH	LAIE SIAKI	LATE FINISH	TF CALENDAR	IDAR	2023 2024	2023	2024
BEL-1050 TERMINATE POWERAND CONTROL WIRING	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			584	29-Aug-23 0E	05-Sep-23	17-Jul-23	24-Jul-23	-26 5-D/	5-DAY W		0	2
BEL-1060 TESTHRINATE POWER AND CONTROL WIRING BEL-1070 TESTHRING OUT OF THE ELECTRICAL SYSTEM LANDS CAPING INSTALL SHRUBS / THEE S BLA-1020 INSTALL SHREDSD HARDWOOD MULCH BLA-1020 INSTALL SHREDDED HARDWOOD MULCH BLA-1030 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1020 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1030 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1040 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1040 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1050 STADE BEAMS / WALLS - FTPS CST-1060 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1060 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1070 INSTALL BY BOOF DRAIN CONNECTION TO MH CST-1080 INSTALL BY BOOF DRAIN CONNECTION TO MH CAR-1030 INSTALL BY DOOF TRUSSES CAR-1030 INSTALL POOFING SYSTEM PROCESS FOULPMENT CPR-1030 INSTALL HPJ CPR-10	w w w w w w w o			390	06-Sep-23 12	12-Sep-23	25-Jul-23	01-Aug-23	-26 5-DA	5-DAY W			} } }
BEL-1070 TESTRING OUT OF THE ELECTRICAL SYSTEM	0 0 0 0 0 0 0 0 0			148	14-Sep-23 21	21-Sep-23	02-Aug-23	08-Aug-23	-26 5-DA	5-DAY W		-	
LANDSCAPING	<u> </u>			22	22-Sep-23 29	29-Sep-23	10-Aug-23	17-Aug-23	-26 5-DA	5-DAY W			
BLA-1000 INSTALL SHRUBS / TREES	20 0 0 0 0 0 0 0 0												
BLA-1010 INSTALL GRASS PAVERS	0 0 0 0 0 0 0 0			-90		27-Feb-24	05-Feb-24	27-Feb-24	0 5-D/	5-DAY W			D
BLA-1020 INSTALL SHREDDED HARDWOOD MULCH BLA-1030 INSTALL BLACK STEEL EDGING	0 0 0 0 0 0			28-	28-Feb-24 08	05-Mar-24	28-Feb-24	05-Mar-24	0 5-D/	5-DAY W			-
BLA-1030 INSTALL BLACK STEEL EDGING BEACONSTIELD - CONTROL BLDG STRUCTURAL CST-1000 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1010 EXCAVATE, SUBGRADE PREP CST-1020 STRIP POOTINGS - FPTS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1040 UNDERGROUND WITHIN / OUTSIDE BUILDING FOOTPRINT (DRAIN, UTILITIES, ELECTRICAL) CST-1040 INSTALL S' ROOF DRAIN CONNECTION TO MH CAR-1030 INSTALL B' ROOF DRAIN CONNECTION TO MH CAR-1030 INSTALL ROOF TRUSSES CAR-1030 INSTALL ROOF TRUSSES CAR-1030 INSTALL NOOF TRUSSES CAR-1030 INSTALL HOURS / GLASS BLOCK CAR-1030 INSTALL HOUR S' S' TEM PROCESS EQUIPMENT CPR-1030 INSTALL HOUR S' S' TEM PROCESS EQUIPMENT CPR-1030 INSTALL HOURENS	0 0 0 0 0			-20	07-Mar-24 14	14-Mar-24	07-Mar-24	14-Mar-24	0 5·D/	5-DAY W			-
STRUCTURAL CST-1000 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1010 CONTROL BUILDING DRILLEDPIERS (10X 30"), BACKFILL WIPEASTONE - TEMP CST-1020 STRUP FOOTINGS - FPTS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1040 UNDERGROUND WITHIN / OUTSIDE BUILDING FOOTPRINT (DRAIN, UTILITIES, ELECTRICAL) CST-1050 GRADE BEAMS / WALLS - FTPS CST-1050 INSTALL S' ROOF DRAIN CONNECTION TO MH CST-1050 INSTALL CMU / BRICKWORK (**START ON ORAFTER 01-APR-23***) CAR-1030 INSTALL BOORS / LOUVERS / GLASS BLOCK CAR-1030 INSTALL ROOF TRUSSES CAR-1030 INSTALL WOOF TRUSSES CAR-1030 INSTALL HOUTH SYSTEM PROCESS EQUIPMENT CPR-1030 INSTALL HOUTH SYSTEM PROCESS EQUIPMENT CPR-1030 INSTALL HOUTH SYSTEM PROCESS GOUPMENT CPR-1030 INSTALL HOUTH SYSTEM PROCESS GOUPMENT CPR-1030 INSTALL HOUTH BLOWERS	0 0 0 0 0			15-	15-Mar-24 2	21-Mar-24	15-Mar-24	21-Mar-24	0 5-D/	5-DAY W			
STRUCTURAL CST-1000 CONTROL BUILDING DRILLED PIERS (10X 30"), BACKFILL W/PEASTONE - TEMP CST-1010 CSTAPL FOOTINGS - FPTS	00 01 00 00 0												
CST-1000 CONTROL BUILDING DRILLED PIERS (10.X 30"), BACKFILL WIPEASTONE - TEMP CST-1010 EXCAVATE, SUBGRADE PREP CST-1020 STRIP FOOTINGS - FPTS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1040 UNDERGROUND WITHIN / OUTSIDE BUILDING FOOTPRINT (DRAIN UTILITIES, ELECTRICAL) CST-1040 LONDERGROUND WITHIN / OUTSIDE BUILDING FOOTPRINT (DRAIN UTILITIES, ELECTRICAL) CST-1040 LOSTALL BY ROOF DRAIN CONNECTION TO MH CST-1040 INSTALL BY ROOF DRAIN CONNECTION TO MH CAR-1010 INSTALL ROOF TRUSSES CAR-1020 INSTALL ROOF TRUSSES CAR-1030 INSTALL HADOWERS CPR-1030 INSTALL HADOWERS CPR-1030 INSTALL HADOWERS CPR-1030 INSTALL HADOWERS	ω N N N ω ο												
CST-1010 EXCAVATE, SUBGRADE PREP CST-1020 STRIP FOOTINGS - FPTS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1030 GRADE BEAMS / WALLS - FTPS CST-1040 UNDERGROUND WITHIN / OUTSIDE BUILDING FOOTPRINT (DRAIN, UTILITIES, ELECTRICAL) CST-1050 COST-1050 COST-1050 CST-1050 CST-1	0 W W W			14-		26-Oct-22	25-Apr-23	04-May-23		5-DAY W			
CST-1020 STRIP FOOTINGS - FPTS	w w w	%0		-72		28-Oct-22	05-May-23	08-May-23	115 5-D/	5-DAY W			
CST-1030 GRADE BEAMS / WALLS - FTPS	v v v	2 0%		31-	31-Oct-22 07	07-Nov-22	09-May-23	16-May-23	115 5-D/	5-DAY W			
CST-1040 UNDERGROUND WITHIN / OUTSIDE BUILDING FOOTPRINT (DRAIN, UTILITIES, ELECTRICAL)	ω ο	2 0%		-60	09-Nov-22 1	17-Nov-22	18-May-23	25-May-23	115 5-D/	5-DAY W			
CST-1050 SOG PREP & POUR CST-1060 EQUIPMENT PADS				-60		17-Nov-22	18-May-23	25-May-23		5-DAY W			
CST-1060 EQUIPMENT PADS CST-1070 INSTALL B'ROOF DRAIN CONNECTION TO M+		3 0%		18-		22-Nov-22	26-May-23	31-May-23	115 5-DA	5-DAY W			
CST-1070 INSTALL 6"ROOF DRAIN CONNECTION TO M+	2	2 0%		124	12-May-23 15	15-May-23	27-Jul-23	28-Jul-23	44 5-D/	5-DAY W			
### CAP TIEST CONTRACT CAPPA	2	2 0%		124	12-May-23 19	19-May-23	08-Aug-23	15-Aug-23	52 5-D/	5-DAY W			
CAR-1000 INSTALL CAM / BRICKWORK (""START ON ORAFTER 01-APR-23"")													
CAR-1010 INSTALL DOORS / LOUVERS / GLASS BLOCK				-60		26-Apr-23	01-Jun-23	26-Jun-23		5-DAY W			
CAR-1020 INSTALL ROOF TRUSSES	2			-72		28-Apr-23	27-Jun-23	28-Jun-23		5-DAY W			
CAR-1030 INSTALL ROOFING SYSTEM PROCESS EQUIPMENT CPR-1000 INSTALL HPU CPR-1010 CPR-1010 INSTALL VACUUM BLOWERS CPR-1020 INSTALL INPLATION BLOWERS				014		03-May-23	29-Jun-23	03-Jul-23		5-DAY W			
PROCESS EQUIPMENT CPR-1000 INSTALL HPU CPR-1010 INSTALL VACUUM BLOWERS CPR-1020 INSTALL INPLATION BLOWERS	2	2 0%		044	04-May-23 11	11-May-23	05-Jul-23	11-Jul-23	36 5-D/	5-DAY W			
	es es			164	_	18-May-23	31-Jul-23	02-Aug-23	52 5-D	5-DAY H			
	e e			194	Н	23-May-23	03-Aug-23	07-Aug-23		5-DAY H			
				244		26-May-23	08-Aug-23	10-Aug-23		5-DAY H			
				304		01-Jun-23	11-Aug-23	15-Aug-23		5-DAY H			
CPR-1040 TIE-IN YARD PIPING TO EQUIPMENT	2	2 0%		96	06-Oct-23 09	09-Oct-23	16-Aug-23	17-Aug-23	-36 5-D	5-DAY H			
MECHANICAL													
				-52	+	72-NON-87	12-Jul-23	13-Jul-23		5-DAY H			
CANE-1010 INSTALL CLEANOULS	N C	%0 %		124	124May-23 15	15-May-23	12-Jul-23	13-Jul-23	42 42	5-DAY H			
CME-1000 INSTALL HOSE BIR				191	_	16-May-23	14-III-23	14-III-23		S-DAY H			
	2	+		174	+	18-May-23	17-Jul-23	18-Jul-23	+	5-DAY H	-		
CME-1050 INSTALL 1.25" NG LINE				194	+	23-May-23	19-Jul-23	21-Jul-23		5-DAY H			+
CME-1060 INSTALL 3/4" DOW LINE		+		244	+	26-May-23	24-Jul-23	26-Jul-23	41 5-D	5-DAY H			
CME-1070 INSTALL DUCTWORK	4	%0		304	30-May-23 02	02-Jun-23	27-Jul-23	01-Aug-23	41 5-D	5-DAY H			
CME-1080 INSTALL EXHAUST FAN	-	1 0%		05-		05-Jun-23	02-Aug-23	02-Aug-23	41 5-D	5-DAY H			
CME-1090 INSTALL IN-LINE FAN	m	3 0%		05-	05-Jun-23 07	07-Jun-23	08-Aug-23	10-Aug-23	45 5-D	5-DAY H			
CME-1100 INSTALL LOUVER / DAMPERS	es es	3 0%		-50	05-Jun-23 07	07-Jun-23	08-Aug-23	10-Aug-23	45 5-D	5-DAY H			
			Page 8 of 11				TASK filter: All Activities	Activities					
Remaining Work Miestone												© Oracle	© Oracle Corporation

Engineer: Tetra Tech of Michigan, PC		8.5 MIL	E - ALL ACT	8.5 MILE - ALL ACTIVITIES BAR CHART	HART					Data Date: 01-Aug-22	01-Aug-22
ACTIVITY ID ACTIVITY NAME	ORIG	REM DUR	% ACTUAL COMP START	ML ACTUAL	EARLY START	EARLY FINISH	LATE START	LATE FINISH	± 8	CALENDAR	2023 2024 SIOINID LEMINIM IN IN ISIOINID LIEM
CME-1110 INSTALL DAMPERS	4	4	%0		06-Jun-23	09-Jun-23	03-Aug-23	08-Aug-23	41	5-DAY H	
CME-1120 INSTALL UNIT HEATER (UH-1)	2	2	%0		12-Jun-23	13-Jun-23	09-Aug-23	10-Aug-23	14	5-DAY H	
CME-1130 INSTALL HVAC CONTROLS	2	2	%0		14-Jun-23	20-Jun-23	11-Aug-23	17-Aug-23	14	5-DAY H	
ELECTRICAL			_	_							
CEL-1000 ELECTRICAL ROUGHIN	10	10	%0		27-Apr-23	10-May-23	17-Jul-23	28-Jul-23	22	5-DAY H	
CEL-1010 INSTALL PANELBOARDS / CONTROL PANELS/ATS	m	က	%0		11-May-23	15-May-23	31-Jul-23	02-Aug-23	55	5-DAY H	
CEL-1020 INSTALL LIGHTING PANELS, CONDUITS AND CABLES	60	က	%0		16-May-23	18-May-23	03-Aug-23	07-Aug-23	55	5-DAY H	_
CEL-1030 INSTALL POWER CONDUITS AND CABLES	60	8	%0		19-May-23	23-May-23	08-Aug-23	10-Aug-23	55	5-DAY H	
CEL-1040 TERMINATE ELECTRICAL - INTERNAL RING OUT- TEST	2	2	%0		08-Jun-23	14-Jun-23	11-Aug-23	17-Aug-23	45	5-DAY H	
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ISS-1000 GATE FRAME INSTALL ATION	Ľ	ĸ	%0		10-410-23	17-A110-23	10.Aug.23	17-AIM-23		W YAC	
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	2	2	%0		18-Aug-23	25-Aug-23	09-Jun-23	16-Jun-23	45	5-DAY W	
ISG-1030 TEMP WEIR INSTALLATION- ROUTING INTO BYPASS	2	2	%0		28-Aug-23	01-Sep-23	19-Jun-23	26-Jun-23	45	5-DAY W	
ISG-1040 CONCRETE PREP WORK FOR BLADDER / ISG (CRACK REPAIR, SMOOTH WALLS)	2	2	%0		05-Sep-23	11-Sep-23	27-Jun-23	03-Jul-23	42	5-DAY W	
ISG-1050 PARTIAL DEMO / HYDRODEMO OF PIPE WALL FOR INF / DEF / VENT	10	10	%0		01-Sep-23	18-Sep-23	26-Jun-23	10-Jul-23	42	5-DAY W	
ISG-1060 POUR CONCRETE BENCH	4	4	%0		12-Sep-23	18-Sep-23	05-Jul-23	10-Jul-23	42	5-DAY W	
ISG-1070 DRAINAGE BOX INSTALLATION	2	2	%0		15-Sep-23	18-Sep-23	07-Jul-23	10-Jul-23	42	5-DAY W	
\top	0	0	%0		19-Sep-23		11-Jul-23		42	5-DAY W	•
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ISG-1140 INFLATE & LEAK TEST 24-48HRS	m	က	%0		23-Oct-23	25-Oct-23	14-Aug-23	17-Aug-23	-42	5-DAY W	
MALVERN SITE											
MCV-1000 COMPLETE SUBMITTALS & CONFIRM MATERIAL IN HAND (ALL)	-	-	%0		19-Jun-23	19-Jun-23	16-May-23	16-May-23	-19	5-DAY W	
MCV-1010 MOBILIZE MOT, CONFIRM REQUIREMENTS WITH SCS	2	2	%0		20-Jun-23	22-Jun-23	18-May-23	19-May-23	-19	5-DAY W	
MCV-1020 UTILITY LOCATION	S	2	%0		23-Jun-23	29-Jun-23	22-May-23	30-May-23	-19	5-DAY W	
MCV-1030 RELOCATE WATERMAIN - COORDINATE WITH SCS	10	10	%0		30-Jun-23	17-Jul-23	31-May-23	15-Jun-23	-19	5-DAY W	
MCV-1040 SAWCUT & DEMO CONCRETE PAVEMENT	-	-	%0		18-Jul-23	18-Jul-23	16-Jun-23	16-Jun-23	-19	5-DAY W	
MCV-1050 START EXCAVATION FOR VAULT & SITE UTLITIES	2	2	%0		20-Jul-23	21-Jul-23	19-Jun-23	20-Jun-23	-19	5-DAY W	_
MCV-1060 CONFIRM LAYOUT & ELEVATION / SLOPES OF UTLITIES	2	2	%0		24-Jul-23	25-Jul-23	22-Jun-23	23-Jun-23	-19	5-DAY W	
MCV-1070 SET VAULT	-	-	%0		27-Jul-23	27-Jul-23	26-Jun-23	26-Jun-23	-19	5-DAY W	
MCV-1080 CONFINED SPACE ENTRY TO MANHOLE, INSTALL PROTECTION / LAYOUT CORES	10	10	%0		28-Jul-23	11-Aug-23	27-Jun-23	11-Jul-23	-19	5-DAY W	
MCV-1090 CORE EXISTING MANHOLE STRUCTURE	က	က	%0		14-Aug-23	17-Aug-23	13-Jul-23	17-Jul-23	-19	5-DAY W	-
MCV-1100 COMPLETE 24" VENT, 6" VENT, & 4" DRAIN FROM VAULT TO MANHOLE	m	က	%0		18-Aug-23	22-Aug-23	18-Jul-23	21-Jul-23	-19	5-DAY W	
MCV-1110 INSPECTION - SCS, MCPWC, TETRATECH	-	-	%0		24-Aug-23	24-Aug-23	24-Jul-23	24-Jul-23	-19	5-DAY W	
MCV-1120 BACKFILL TRENCHES / VAULT, PREP PAVEMENT SUBGRADE	2	2	%0		25-Aug-23	31-Aug-23	25-Jul-23	01-Aug-23	-19	5-DAY W	
MCV-1130 INSPECTION - SCS, MCPWC, TETRATECH - TEST SUBGRADE	20	2	%0		01-Sep-23	08-Sep-23	02-Aug-23	08-Aug-23	-19	5-DAY W	
MCV-1140 POUR PAVEMENT	2	2	%0		11-Sep-23	18-Sep-23	10-Aug-23	17-Aug-23	-19	5-DAY W	
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			Page 9 of 11	of 11			TASK filter: All Activities	All Activities			
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Packer Laber Packer P	CURE DE VENT STACK 2 DOATING 3 GBON CANISTER 1 E SUPPORTS 2 6" ODR LINES 2 1.5" DRAIN LINES 2 VENT LINE 2 VES AND ACCESSORIES 1 TEST PIPES 1 NAFECT OF PROCESS EQUIPMENT 5 NACOLSONIC METER SENSORS 1 TEL MODEMIN PANEL 456RD 1 STAND TERMINAL STREP 1			19-Sep-23	26-Sep-23	15-Sep-23	22-Sep-23	-	1
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STATEMENT STAT	PE VENT STACK 20 ATING 20 ATING 48 ON CANISTER 4. SUPPORTS 6. ODR LINES 1. STATE PROCESSORIES 1. STATE PRES 4. STATE PRES 4. STATE PROCESSORIES 5. STATE PROCESSORIES 4. STATE PROCESSORIES 5. STATE PROCESSORIES 6. STATE PROCESSORIES 6. STATE PROCESSORIES 6. STATE PROCESSORIES 7. STA					-			
CADE DESIGNATION CADE DESIGNATION<	SON CANISTER			24-Aug-23	25-Aug-23	28-Aug-23	29-Aug-23		<u> </u>
Comparison Com	## SECULOR CANISTER ## SECUPPORTS ## SECUPPORTS ## SECUPPORTS ## SECUPPORT LINES ## SECUP			28-Aug-23	30-Aug-23	30-Aug-23	01-Sep-23		<u> </u>
Part	WSTALL PIPE SUPPORTS 1 WSTALL 4" / 6" ODR LINES 2 WSTALL 24" VENT LINE 2 WSTALL 24" VENT LINE 2 WSTALL VALVES AND ACCESSORIES 1 PRESSURE TEST PIPES 1 ESTING & INSPECT OF PROCESS EQUIPMENT 5 WSTALL NEW ACCUSONIC METER SENSORS 1 REMOUNT CELL MODEM IN PAREL 456RD 1 RELOCATE HT AND TERMINAL STRAP 1	l		31-Aug-23	31-Aug-23	05-Sep-23	05-Sep-23		
INSTITUTE OFFICE NOTE NEEDS 1989	WSTALL 4" / 6" ODR LINES 2 WSTALL 24" / 15" DRAIN LINES 1 WSTALL 24" VENT LINE 2 WSTALL VALVES AND ACCESSORIES 1 PRESSURE TEST PIPES 1 ESTING & INSPECT OF PROCESS EQUIPMENT 5 WSTALL NEW ACCUSONIC METER SENSORS 1 REMOUNT CELL MODEM IN PAREL 456RD 1 REL CATE HT AND TERMINAL STRAP 1	+		01-Sep-23	01-Sep-23	06-Sep-23	06-Sep-23		×
New Collection Colle	NSTALL 4" / 1.5" DRAIN LINES NSTALL 24" VENT LINE NSTALL VALVES AND ACCESSORIES 1 1 1 1 1 1 1 1 1 1 1 1 1			05-Sep-23	06-Sep-23	07-Sep-23	08-Sep-23	+	
PRESENTE OFFICE PRESENTED	NSTALL 24" VENT LINE NSTALL VALVES AND ACCESSORIES 1 1 1 1 1 1 1 1 1 1 1 1 1	+		07-Sep-23	07-Sep-23	11-Sep-23	11-Sep-23	+	
PRESIDE TEST PRESIDENTEST PRE	NSTALL VALVES AND ACCESSORIES 1 FESTING & INSPECT OF PROCESS EQUIPMENT 1 STALL NEW ACCUSONIC METER SENSORS 1 SEMOUNT CELL MODEM IN PAREL 456RD 1 SELCATE HT AND TERMINAL STRAP	+		08-Sep-23	11-Sep-23	12-Sep-23	14-Sep-23	-	
IESTING & NOTICE TO PROCESSE CLANIANT CONCERTE LANDAGE INTERPARENT CONCERT	1 FESTING & INSPECT OF PROCESS EQUIPMENT 5 ESTING & INSPECT OF PROCESS EQUIPMENT 5 NSTALL NEW ACCUSONIC METER SENSORS 1 EMOUNT CELL MODEM IN PAREL 456RD 1 ELL CATE HT AND TERMINAL STRAP 1			12-Sep-23	12-Sep-23	15-Sep-23	15-Sep-23		
TESTING & INSPECTIOF PROCESS EQUIPMENT TESTING & INSPECTIOF PROCESS EQUIPM	ESTING & INSPECT OF PROCESS EQUIPMENT 5 NSTALL NEW ACCUSONIC METER SENSORS 1 EMOUNT CELL MODEM IN PANEL 456RD 1 ELL CATE HT AND TERMINAL STRP 1			14-Sep-23	14-Sep-23	18-Sep-23	18-Sep-23		_
INSTITUTE PROMOZIGONO METER BENISCREEN INSTITUTE PROMOZIGONO METER RENISCREEN INSTITUTE PROMOZIGONO METER RENISCR	NSTALL NEW ACCLSONIC METER SENSORS TEMOUNT CELL MODEM IN PAREL 456RD TELCOATE HIT AND TERMINAL STRAP			15-Sep-23	22-Sep-23	19-Sep-23	26-Sep-23		<u> </u>
NAME	INSTALL NEW ACCLSONIC METER SENSORS REMOUNT CELL MODEM IN PANEL 456RD RELOCATE FIT AND TERMINAL STRAP								
PRIONICAL MONTRED MINISTRES 2 Ministration 1 mm 1 mm 1 mm 2 Ministration 2 Mi	REMOUNT CELL MODEM IN PANEL 456RD RELOCATE HT AND TERMINAL STRAP			25-Sep-23	25-Sep-23	28-Sep-23	28-Sep-23		<u> </u>
RECAVORE TO SOUTH MANAGEMENT MANA	RELOCATE HT AND TERMINAL STRP			26-Sep-23	26-Sep-23	29-Sep-23	29-Sep-23		<u> </u>
PRETACE DOCIDER WITHOUTED CHOLTED REALERS 1 1 0% 1 0		+		28-Sep-23	28-Sep-23	02-Oct-23	02-Oct-23	-	<u> </u>
INSTILL CORE IN CORMAN FREWALL AND SMITCH INSTILL CORP	REPLACE LOAD CENIER WITH DINKAIL MOUNTED CIRCUIT BREAKERS			29-Sep-23	29-Sep-23	03-Oct-23	03-Oct-23		~
TEST NOWER TEED TO NEW ACCUSION C TRANSMITTER 1 1 0 % 0.0-0423 0.0-04	INSTALL CABLE MODEM, FIREWALL AND SWITCH			02-Oct-23	02-Oct-23	04-Oct-23	04-Oct-23		<u> </u>
PERCY ELICYTROAL SYSTEM PRECY ELICYTROAL SYST	CONNECT SIGNALS / POWER FEED TO NEW ACCUSONIC TRANSMITTER			03-Oct-23	03-Oct-23	05-Oct-23	05-Oct-23	_	=
FY WORK - CONFIRM MEASUFEMENTS FY MEASUFEMENTS	SPECT ELECTRICAL SYSTEM 3	-		04-Oct-23	06-Oct-23	06-Oct-23	10-Oct-23	\dashv	-
TORDY WORK - CONFIRM MEASUREMENTS 5 5 6 6 6 6 6 6 1 6 1 6 1 6 1 6 1	SECONDARY SITES								
NORK-CONPIRM MEASUREMENTS S S 0 % NORK-CONPIRM MEASUREMENTS S S 0 % NORK-CONPIRM MEASUREMENTS S S 0 % NORK-CONPIRM MEASUREMENTS S S S S S S S S S	EASTLAWN SITE								
THLS	EXPLORATORY WORK - CONFIRM MEASUREMENTS 5			01-Aug-22	05-Aug-22	29-Jun-22	06-Jul-22		M
ESTTOMCPWOTO MODIFY HW & SOADA 20 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	PANEL SUBMITTALS 50			08-Aug-22	27-Oct-22	07-Jul-22	27-Sep-22		<u> </u>
1 1 0% 1 1 0% 1 1 0% 1 1 0% 1 1 0% 1 1 0% 1 0% 1 0% 1 0% 1 0% 1 0% 1 0% 1 0% 1 0% 0 0 0 0 0 0 0 0	ACCESS REQUEST TO MCPWCTO MODIFY HW & SCADA			28-Oct-22	02-Dec-22	29-Sep-22	28-Oct-22		
1 1 0% 08-Dec-22 08-Dec-22 03-Nov-22 03-Nov-22 1-1 1-1 0% 08-Dec-22 09-Dec-22 03-Nov-22 1-1 1-1 0% 09-Dec-22 09-Dec-22 04-Nov-22 04-Nov-22 1-1 1-1 0% 09-Dec-22 09-Dec-22 07-Nov-22 1-1 07-Nov-22 17-Nov-22 17-Nov	DEMOLISH RECEPTACLE, INSTALL SHELF FOR CELLULAR MODEM AND FIREWALL	+		05-Dec-22	06-Dec-22	31-0d-22	01-Nov-22	4	
1 1 0% 09-Dec-22 09-Dec-22 04-Nov-22 1-1 1-1 0% 09-Dec-22 09-Dec-22 04-Nov-22 1-1 1-1 0% 09-Dec-22 07-Nov-22 1-1 1-1 0% 09-Dec-22 07-Nov-22 07-Nov-22 1-1 1-1 0% 07-Dec-22 07-Nov-22 07-Nov-22 1-1 07-Dec-22 09-Dec-22 0	INSTALL DINRAIL MOUNTED SWITCH			08-Dec-22	08-Dec-22	03-Nov-22	03-Nov-22		
AND CONDUIT UP TO PAREL. AND CONDUIT UP TO CONDUI	REPLACE LEVEL TRANSMITTER	+		09-Dec-22	09-Dec-22	04-Nov-22	04-Nov-22	4	
1 1 1 1 1 1 1 1 1 1	REPLACE SEAL AND CONDUIT UP TO PANEL	+		12-Dec-22	12-Dec-22	07-Nov-22	07-Nov-22	4	_ (
IN NACIDAL CONCRETE MANHOLE DETAILS WITH SCS 5 0% 10-Feb-23 17-Feb-23 17-Feb-23 18-Jan-23 18-Jan-23 19-Jan-23 18-Jan-23 19-Jan-23 19-Jan	COMMISSION			13-Dec-22	Z0-Dec-ZZ	72-Nov-52	17-Nov-22		
AVADIDIS / PERMIT / CONCRETE / MANHOLE DETAILS WITH SCS 5 6 6 6 6 6 7 7-Feb-23 17-Feb-23 10-Jan-23 18-Jan-23 -19 WARBLE CLOSURE WITH BUILDING OCCUPANITS 1 7 6 6 6 6 6 6 6 6 7-Feb-23 17-Feb-23 10-Jan-23 14-Jan-23 1-19 14-Jan-23 14-Jan-23 19-Jan-23 1-19 1-19 10-Jan-23 19-Jan-23 1-19-Jan-23 1-19-Jan-23 </td <td>30 III IN ACTUAL CONDITIONS</td> <td>-</td> <td></td> <td>Z1-Dec-ZZ</td> <td>09-rep-23</td> <td>72-NON-81</td> <td>09-Jan-23</td> <td>_</td> <td></td>	30 III IN ACTUAL CONDITIONS	-		Z1-Dec-ZZ	09-rep-23	72-NON-81	09-Jan-23	_	
CONFIRM ALL OWABLE CLOSURE WITH BUILDING OCCUPANTS 5 6 0% 10-Feb-23 17-Feb-23 16-Jan-23 19-Jan-23 19-Jan-	SICADING / PERMIT / CONCRETE / MANHOLE DETAILS WITH SCS			10-Feb-23	17-Feb-23	10-Jan-23	18-Jan-23		
DEMOLISH CONCRETE PER ST. CLAIR SHORES STANDARD 1 1 0% 20-Feb-23 20-Feb-23 19-Jan-23 1-9 1-9 NEW CASTING W/ 8DRAMH16 1 1 1 0% 21-Feb-23 21-Feb-23 20-Jan-23 1-9 POUR CONCRETE 2 2 2 2 0% 22-Feb-23 23-Jan-23 23-Jan-23 1-9 CURE CURE 2 2 0% 23-Feb-23 28-Han-23 27-Feb-23 27-Feb-23 27-Feb-23 27-Feb-23 27-Feb-23 27-Feb-23 27-Feb-23 28-Feb-23 28-Feb-2	CONFIRM ALLOWABLE CLOSURE WITH BUILDING OCCUPANTS 5			10-Feb-23	17-Feb-23	10-Jan-23	18-Jan-23		
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POUR CONORETE 1 1 0% 22-Feb-23 22-Feb-23 23-Jan-23 23-Jan-23 -19 CURE CURE 22 22 0% 23-Feb-23 28-Jan-23 27-Feb-23 27-Feb-23 27-Feb-23 27-Feb-23 27-Feb-23 28-Feb-23 28-Feb-23 -19 REMOVE BARRICADES, CLEANUP 1 1 0% 29-Mar-23 28-Feb-23 28-Feb-23 28-Feb-23 -19	NEW CASTING W/ 8DR-MH-16			21-Feb-23	21-Feb-23	20-Jan-23	20-Jan-23		_
CURE PEMOVE BARRICADES, CLEANUP 22 22 0% 23-6b-23 28-Mar-23 27-Feb-23 27-Feb-23 27-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 -19	POUR CONCRETE	H		22-Feb-23	22-Feb-23	23-Jan-23	23-Jan-23		
REMOVE BARRICADES, CLEANUP 1 1 1 0% 29-Mar-23 29-Mar-23 28-Feb-23 28-Feb-23 -19	CURE 22			23-Feb-23	28-Mar-23	24-Jan-23	27-Feb-23		
	REMOVE BARRICADES, CLEANUP	%0		29-Mar-23	29-Mar-23	28-Feb-23	28-Feb-23		, w
Actual Work	Jack	Page 10) of 11			TASK filter: A	II Activities		© Oracle Cornoration

8-1/2 Mile Relief Drain Drainage District 8-1/2 Mi	8-1/2 Mile Relief Drain Drainage District In-System Storage Devices - Project No. WWS-2021-006	amage Di	strict in-syst	em Storage Dev	ices - Project N	10. VVVV3-2U.	21-006			Weis	Weiss Construction Company, LLC	, LLC
Tetra Tech of Michigan, PC		8.5 MIL	LE - ALL AC	8.5 MILE - ALL ACTIVITIES BAR CHART	HART						Data Date: 01-Aug-22	>
ACTIVITY NAME	ORIG	REM DUR	% ACTUAL COMP START	JAL ACTUAL RT FINISH	EARLY START	FINISH	LATE START	T LATE FINISH	SH	CALENDAR	202)23 2024
EDGEWOOD SITE												0
EDG-1000 CONFIRM BARRICADING / PERMIT / CONCRETE / MANHOLE DETAILS WITH SCS	5	5	%0		30-Mar-23	06-Apr-23	01-Mar-23	07-Mar-23	-19	5-DAY W		
EDG-1010 DEMOLISH CONCRETE PER ST. CLAIR SHORES STANDARD	-	-	%0		07-Apr-23	07-Apr-23	09-Mar-23	09-Mar-23	-19	5-DAY W		
EDG-1020 NEW CASTING W/ 8DR-MH-08	-	-	%0		10-Apr-23	10-Apr-23	10-Mar-23	10-Mar-23	3 -19	5-DAY W		
EDG-1030 POUR CONCRETE	-	-	%0		11-Apr-23	11-Apr-23	13-Mar-23	13-Mar-23	-19	5-DAY W		
EDG-1040 CURE	22	22 (%0		13-Apr-23	16-May-23	14-Mar-23	17-Apr-23	3 -19	5-DAY W	- 0 -	
EDG-1050 REMOVE BARRICADES, CLEANUP	-	-	%0		18-May-23	18-May-23	18-Apr-23	18-Apr-23	3 -19	5-DAY W		
O'CONNOR SITE												
CON1000 CONFIRM BARRICADING / PERMIT / MANHOLE DETAILS WITH SCS	2	2	% 0		19-May-23	26-May-23	20-Apr-23	26-Apr-23	3 -19	5-DAY W		
	2	-	%0		30-May-23	05-Jun-23	27-Apr-23	H	+	5-DAY W		
CON-1020 TRIM AND REMOVE EXISTING SHRUBS	-	-	%0		06-Jun-23	06-Jun-23	04-May-23	04-May-23	3 -19	5-DAY W		
CON-1030 REPLACE MANHOLE 8DR-MH-007	-	-	%0		08-Jun-23	08-Jun-23	05-May-23	05-May-23	-19	5-DAY W		
CON-1040 RESTORE DISTURBED AREA W/ 3" TOPSOIL, SEED AND MULCH	2	5	%0		09-Jun-23	16-Jun-23	08-May-23	15-May-23	-19	5-DAY W		
CLOSEOUT												
CLOSEOUT REQUIRED FOR SUBSTANTIAL COMPLETION												
SCADA DEVELOPMENT / TESTING & COMMISSIONING												
CLO-1000 SCADA PRELIMINARY MEETING & DEVELOPMENT KICKOFF	-	-	% 0		24-Oct-22	24-0d-22	28-Jul-23	28-Jul-23	3 190	5-DAY H		
	2	2	%0		27-Oct-22	03-Nov-22	11-Oct-23	17-Oct-23	+	5-DAY H		
20 GAUKLER - COMMISSION & TEST	22	2	%0		06-Jan-23	12-Jan-23	11-Oct-23	17-Oct-23	3 194	5-DAY H		
QQLO-1030 AUX / SUPPORT SITES COMPLETE. TESTBACK TO SCADA	10		%0		10-Feb-23	23-Feb-23	31-Jul-23	11-Aug-23	+	5-DAY H		
CLO-1050 MALVERN - COMMISSION & TEST	2	2	%0		09-Oct-23	13-Oct-23	11-0d-23	17-Oct-23	3	5-DAY H		
	2		%0		10-Oct-23	16-Oct-23	18-Aug-23	24-Aug-23	36-36	5-DAY H		
CLO-1040 BEACONSFIELD - ISG BLADDER CHECKOUT	2	2	%0		26-Oct-23	01-Nov-23	18-Aug-23	24-Aug-23	3 48	5-DAY H		
CLO-1070 PERFORM OPERATION DEMONSTRATION - STORM EVENT 2 (>.5" OF PRECIPITATION)	12	15	%0		02-Nov-23	16-Nov-23	25-Aug-23	-	69-	7-DAY		
CLO-1080 PERFORM OPERATION DEMONSTRATION - STORM EVENT 1 (>.5" OF PRECIPITATION)	15	15	%0		17-Nov-23	01-Dec-23	09-Sep-23	23-Sep-23	69-	7-DAY		
CLOSEOUT REQUIRED FOR FINAL COMPLETION												
CLO-2000 PROVIDE CLOSEOUT DOCUMENTS	52		%0		26-Oct-23	04-Dec-23	18-Oct-23	22-Nov-23	φ	5-DAY H		
CLO-2010 PERFORM PUNCH LIST & DEMOBILIZE	42		%0		04-Dec-23	02-Feb-24	25-Sep-23	22-Nov-23	3 47	5-DAY H		
0 PROVIDE CLOSEOUT DOCUMENTS 3 PERFORM PUNCH LIST & DEMOBILIZE	25 42		%0		26-Oct-23 04-Dec-23	04-Dec-23 02-Feb-24	18-Oct-23 25-Sep-23				5-DAY H	5-DAY H

 From:
 Zachary Zechmeister

 To:
 Ard, Timothy

 Subject:
 RE: Schedule

Date: Thursday, September 1, 2022 8:48:14 AM

Attachments: image002.png image005.png image006.png image007.png

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Tim-

Explanation as follows:

"Regarding your question as to why the Late Start & Late Finish dates appear earlier than the Early Start & Early Finish dates (for activities with negative float*), below is a brief explanation:

- Early Dates are calculated using the forward pass. Late Dates are calculated using the backwards pass.
- For nearly all contracts, the backwards pass calculation begins with Final Completion.
- When the Final Completion date is mandated by the terms of the contract, a finish-on-or-before constraint is added to the schedule to reflect this contractual requirement.
- Due to the constraint on Final Completion, the backwards pass will never calculate a Late Start or Late Finish date which is beyond the constrained date since the constrained date.

Hope that makes sense. If not, let me know and I'll provide additional detail.

It just boils down to having the constraint in the schedule. Notice how activity MIL-1050 doesn't have negative float? It's because there's no constraint on that activity."

In summary, note the LATE finish on MIL 1030 (substantial) vs the EARLY. The EARLY is now the projected (negative float 69 days = our days of delay).

Same with MIL 1040 (final)

1050 is NOT the same because we did not constrain it.

?	

Call if we need to discuss. I'm in the office today.

Thanks,

Zach Zechmeister

Project Manager

Weiss Construction Company, LLC 41001 Grand River Ave Novi, MI 48375 Cell: (586) 596-3199 Office: (313) 567-4500 x 108 www.weiss-construction.com

From: Zachary Zechmeister

Sent: Thursday, September 1, 2022 8:18 AM **To:** 'Ard, Timothy' <Timothy.Ard@tetratech.com>

Subject: RE: Schedule

Tim-

Schedule will not be changing. I will have a short response shortly on the negative float and why it occurs in our particular condition.

Zach Zechmeister

Project Manager

Weiss Construction Company, LLC

41001 Grand River Ave Novi, MI 48375 Cell: (586) 596-3199 Office: (313) 567-4500 x 108 www.weiss-construction.com

From: Zachary Zechmeister

Sent: Monday, August 29, 2022 2:58 PM **To:** Ard, Timothy < <u>Timothy.Ard@tetratech.com</u>>

Subject: RE: Schedule

I'm on it the detailed explanation. Its closer than it was.

And OK on the restoration. Agreed.

Zach Zechmeister

Project Manager

Weiss Construction Company, LLC 41001 Grand River Ave Novi, MI 48375 Cell: (586) 596-3199 Office: (313) 567-4500 x 108

www.weiss-construction.com

From: Ard, Timothy < Timothy.Ard@tetratech.com >

Sent: Monday, August 29, 2022 2:43 PM

To: Zachary Zechmeister < zzechmeister@weiss-construction.com

Subject: Schedule

Zach,

There are still many entries that show the early start/finishing occurring after the late start/finish. I believe you said those entries are to indicate lost time and zero float. If so, please provide a description/reason so the board has an explanation.

Some items are still out of sequence. Item CST 1050 SOG is still showing completion prior to CME 1000, floor drains. I know that's microscopic in the scheme of things, but it's representative of corrections that need to be made. Please scan and make corrections where needed.

The Post-Final Completion date of March 24 for restoration is too early. The Contract requires growing vegetation prior to closeout. I am going to put this at June 1, which should provide plenty of time if properly maintained.

Tim

Timothy Ard | Construction Manager Main: 734.665.6000 | Direct: 734.213.4022 | Cell: 734.216.9280 tim.ard@tetratech.com

While we are operating remotely in response to COVID-19, Tetra Tech teams remain fully connected and hard at work servicing our clients and ongoing projects. We also would like to wish health and wellness to you and your family.

Tetra Tech | Water, Environment & Infrastructure

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