



AGENDA INFORMATION  
TIFFIN CITY COUNCIL COMMUNICATION

<b>DATE:</b>	April 2, 2026
<b>AGENDA ITEM:</b>	Discussion and Consideration Change Order #2 – Tricon Construction – Tiffin Water Treatment Facility Upgrade Project
<b>ACTION:</b>	Motion

**Background**

The City of Tiffin is currently completing improvements to the Water Treatment Facility as part of ongoing infrastructure upgrades.

Change Order No. 2 reflects a series of adjustments to the project scope based on field conditions, design clarifications, and coordination with utility providers and operational needs. The change order was issued April 1, 2026, with an effective date of April 7, 2026.

This change order includes both increases and decreases to the contract based on necessary project modifications, including:

- Addition of a new water service line in the chemical room
- Installation of bollards and a concrete pad at the relocated transformer for protection
- Addition of concrete curbs for chemical containment areas
- Modifications to an existing masonry wall to support structural loading requirements
- Adjustments to valve configurations in piping systems
- Addition of ductwork intake in the MCC room
- Credit for low lift pumps that did not meet specified efficiency

These items are largely driven by field coordination, safety considerations, and ensuring the facility meets operational and regulatory requirements.

**Staff Recommendation**

Staff recommends approval of Change Order No. 2 for the Tiffin Water Treatment Facility Upgrade project in the amount of \$7,728.57, as submitted by Tricon Construction Group.

**ATTACHMENTS:** Change Order

**CHANGE ORDER NO.: 2**

Owner:	City of Tiffin	Owner's Project No.:	
Engineer:	MSA Professional Services	Engineer's Project No.:	13603021
Contractor:	Tricon Construction Group	Contractor's Project No.:	25-012-IA
Project:	Tiffin WTF Upgrade		
Contract Name:	13603021 – Tiffin WTF Upgrade		
Date Issued:	April 1, 2026	Effective Date of Change Order:	April 7, 2026

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

Description: This change order shall incorporate the following changes:

- Increase for new water service = \$3,454.10
- Increase for installation of bollards and concrete pad at transformer location b/c of relocation = \$1,804.21
- Increase to include concrete curbs for chemical containment areas = \$1,022.01
- Increase to change masonry wall in existing WTP to load bearing to support truss loadings = \$2,556.62
- Decrease to eliminate (2) 6" and (1) 8" butterfly valves on the clean in place piping and to include (1) 12" butterfly valve in the forced draft aerator vault = (\$1,619.74)
- Increase to include ductwork intake in the MCC Room = \$3,402.31
- Decrease for acceptance of low lift pumps which had a lower efficiency than specified = (\$2,809.94)

Attachments: Change order request documents.

Change in Contract Price	Change in Contract Times
Original Contract Price: \$ <u>12,182,553.00</u>	Original Contract Times: Substantial Completion: <u>9/30/26</u> Ready for final payment: <u>11/30/26</u>
<b>Increase</b> from previously approved Change Orders No. 1 to No. 1 \$ <u>12,420.34</u>	<b>[Increase] [Decrease]</b> from previously approved Change Orders No.1 to No. <b>[Number of previous Change Order]</b> : Substantial Completion: <u>N/A</u> Ready for final payment: <u>N/A</u>
Contract Price prior to this Change Order: \$ <u>12,194,973.34</u>	Contract Times prior to this Change Order: Substantial Completion: <u>9/30/26</u> Ready for final payment: <u>11/30/26</u>
<b>Increase</b> this Change Order: \$ <u>7,728.57</u>	<b>[Increase] [Decrease]</b> this Change Order: \$0.00 Substantial Completion: <u>0</u> Ready for final payment: <u>0</u>
Contract Price incorporating this Change Order: \$ <u>12,202,701.91</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>9/30/26</u> Ready for final payment: <u>11/30/26</u>

Recommended by Engineer  
By: *Clint Wiener*  
Title: Senior Project Engineer  
Date: April 2, 2026

Accepted by Contractor  
*[Signature]*  
Owner  
04.02.26

	<u>Authorized by Owner</u>	<u>Approved by Funding Agency (if applicable)</u>
By:	_____	_____
Title:	_____	_____
Date:	_____	_____



[www.triconcg.com](http://www.triconcg.com)

746 58th Ave Ct SW  
Cedar Rapids, IA 52404

Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

March 30, 2026

Clint Wiene  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 3R2

New water service in Chemical Room per attached.

Dennis Spencer Construction, Inc	3,018.07
Fosters Kraus Mechanical Group	965.31
Tricon Misc Materials	(201.42)
Tricon Labor (8 hrs @ \$69.50/HR)	<u>(556.00)</u>
Sub-Total	3,225.96
OHP	161.30
General Liability Insurance	16.80
Bond	<u>50.04</u>
<b>Total</b>	<b>\$ 3,454.10</b>

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

3/30/2026  
Date

Clint Wiene - MSA Professional Services Inc

Date

City of Tiffin

Date

# Change Authorization Request

Dennis Spencer Construction, Inc.

Project: Tiffin Water Treatment Plant



Submitted To:	Contractor
<b>Tricon Construction</b> 746 58th Ave. CT. SW Cedar Rapids, IA 52404	Dennis Spencer Construction Attn: Alex Spencer 319-631-2376 <a href="mailto:alex@spencer-construction.com">alex@spencer-construction.com</a>

Date	Description	Quantity	Unit	Rate	Extended Rate
	<b><u>2" Water Service COR</u></b>				
	Excavator	6	HRS	\$375.00	\$2,250.00
	Labor	12	HRS	\$115.00	\$1,380.00
	2" Tap	1	EA	\$550.00	\$550.00
	12"x2" Saddle	1	EA	\$159.50	\$159.50
	2" Corp	1	EA	\$412.50	\$412.50
	2" Curb Stop	1	EA	\$605.00	\$605.00
	2" CTS HDPE	100	FT	\$3.03	\$303.00
	2" SS Insert	1	EA	\$3.50	\$3.50
	Tracer Wire	40	FT	\$0.28	\$11.20
	Curb Box	1	EA	\$93.50	\$93.50
	SS Rod	1	EA	\$60.50	\$60.50
	12" Holding Spool	1	EA	\$450.00	-\$450.00
	4" MJ Tee	1	EA	\$210.00	-\$210.00
	4" MJ Sleeve	1	EA	\$145.00	-\$145.00
	4"x6" MJ Reducer	1	EA	\$160.00	-\$160.00
	6" Gate Valve	1	EA	\$1,025.00	-\$1,025.00
	Valve Box	1	EA	\$400.00	-\$400.00
	Install Hydrant	1	LS	\$900.00	-\$900.00
	4" Special Radius Bend	1	EA	\$205.00	\$205.00
				<b>Sub Total</b>	\$2,743.70
				<b>10% OHP</b>	\$274.37
				<b>Total</b>	\$3,018.07

Submitted By: Alex Spencer

Date: 3/24/26



# PRICE QUOTATION



**CEDAR RAPIDS**  
**1106 Shaver Rd NE**  
**Cedar Rapids, IA 52402**  
**Ph: 319-365-9421**  
**FAX: 319-365-9867**  
**www.schimberg.com**

Quote Date	08/29/2025
Quote Number	10091799-00
Quote Expiration Date	09/05/2025
Writer	Mike Booth
Salesperson	Mike Booth
Total Weight	30.69
Freight Terms	SchimbergTruck
Placed By	MIKE

**PHONE:** (319) 465-5129  
**EMAIL:** mbooth@schimberg.com

<b>Bill To</b> 690	<b>FOSTERS KRAUS</b> 999 ENTERPRISE DR; STE 100 MARION, IA 52302 US
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<b>Ship To</b> SAME	<b>FOSTERS KRAUS</b> 999 ENTERPRISE DR; STE 100 MARION, IA 52302 us
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<b>Notes</b>	

<b>Terms</b> N 45 DAYS	<b>Req Ship Date</b> 09/05/2025	<b>Ship Point</b> SCHIMBERG CEDAR RAPIDS	<b>Ship Via</b> S CO TRUCK
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Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
1		<b>81702010200</b> PIPE HDPE DR11 2X20'	20.0	FT	1.57	31.40
2		<b>81760400200</b> HDPE MPT BRASS ADP X SW 2	1	EA	41.18	41.18
3		<b>408045002001</b> MIL UPBA450 BL VL CXC 2 BALL VALVE SWEAT LEAD FREE BRONZE BODY, CHROME PLATED BALL, FILLED TEFLON SEATS,600# FULL PORT LEVER HANDLE	1	EA	268.56	268.56
4		<b>61060020238</b> RB BUSH 2X1	1	EA	17.56	17.56
5		<b>88560400100</b> PVC80 ML ADP SXT 1	1	EA	5.09	5.09
6		<b>88060700100</b> PVC80 90 ELL SXS 1	4	EA	2.59	10.36
7		<b>80202010100</b> PIPE S80 PVC PE 1x20	20.0	FT	1.17	23.40

7 Lines Total **Total 397.55**  
**SALES PERSON CONTACT INFORMATION** **Taxes 0.00**  
**Mike Booth** **Quote Total 397.55**  
**mbooth@schimberg.com**

All prices quoted are valid for 24 hours and are subject to change based on availability, increase in Tariffs, duties, or any other government-imposed import restrictions.  
 If "ns" is indicated in the "ns" column or any part number begins with an "n" or "w", it is non-stock material and subject to manufacturers restock & return freight charges.

---Jobs with multiple shipments or a duration of more than 30 days must be authorized in advance.---

Customer Copy

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10091799-00

# PRICE QUOTATION



**CEDAR RAPIDS**  
 1106 Shaver Rd NE  
 Cedar Rapids, IA 52402  
 Ph: 319-365-9421  
 FAX: 319-365-9867  
 www.schimberg.com

Quote Date	03/30/2026
Quote Number	10151025-00
Quote Expiration Date	04/06/2026
Writer	BRENTON HAKES
Salesperson	Rep 132
Total Weight	0
Freight Terms	Customer Pays In
Placed By	TOM S

**PHONE:** (563) 588-9516  
**EMAIL:** bhakes@schimberg.com

<b>Bill To</b> 7310	<b>TRICON CONSTRUCTION</b> 1230 EAST 12TH ST DUBUQUE, IA 52001 US
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<b>Ship To</b> SAME	<b>TRICON CONSTRUCTION</b> 1230 EAST 12TH ST DUBUQUE, IA 52001 US
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**Notes**

8" x 2" NPT Saddle deduct

<b>Terms</b> NET 30 DAYS	<b>Req Ship Date</b> 03/30/2026	<b>Ship Point</b> SCHIMBERG CEDAR RAPIDS	<b>Ship Via</b> UPS GROUND / 531303
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Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
1	NS	<b>N948</b> 202NS-9.05 X 2 IP OD RANGE 8.63-9.05 286-090572  Manufactured/assembled products quoted above meet AIS/BABA requirements as mandated by the EPA unless otherwise noted.	1	EA	201.42	201.42

1 Lines Total

**SALES PERSON CONTACT INFORMATION**  
**BRENTON HAKES**  
 bhakes@schimberg.com

**Total** 201.42  
**Taxes** ~~14.10~~  
**Quote Total** ~~215.52~~

All prices quoted are valid for 24 hours and are subject to change based on availability, increase in Tariffs, duties, or any other government-imposed import restrictions.

If "ns" is indicated in the "ns" column or any part number begins with an "n" or "w", it is non-stock material and subject to manufacturers restock & return freight charges.

---Jobs with multiple shipments or a duration of more than 30 days must be authorized in advance.---

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10151025-00



[www.triconcg.com](http://www.triconcg.com)

746 58th Ave Ct SW  
Cedar Rapids, IA 52404

Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

October 21, 2025

Clint Wiene  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 4 - RFI-014

Transformer Pad Relocate - Added Bollards per RFI-014.

Eggleston Concrete Contractors	950.00
Tricon	<u>671.12</u>
Sub-Total	1,621.12
OHP (Subcontracted)	47.50
OHP (Self-Performed)	100.67
General Liability Insurance	8.78
Bond	<u>26.14</u>
<b>Total</b>	<b>\$ 1,804.21</b>

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

10/21/2025  
Date

Clint Wiene - MSA Professional Services Inc

Date

City of Tiffin

Date

**ITEM ANALYSIS**

Project	<u>Tiffin Water Treatment Facility Upgrade</u>	Location	<u>Tiffin, IA</u>
Description	<u>Alliant Transformer Pad Relocate per Owner Request</u>	Estimator	<u>Tom Shedek</u>
Contractor	<u>Tricon Construction Group</u>	Date	<u>10/20/2025</u>

Item #	Description	QTY	Units	Unit Rate	Man-hours	Labor Expense		Permanent Materials		Sub Contracts		Total Direct Cost
						Wages		Engineered Equipment				
						U.P.	Total	U.P.	Total	U.P.	Total	
<b>Base Bid Costs (Deducts)</b>												
1-1							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-2							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-3							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-4							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-5							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-6							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Totals</b>							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Base Bid Changes per Team/City Request</b>												
2-1	Added concrete paving to accommodate 4 bollards - Eggeston Paving	1	LS				\$ -	\$ -	\$ -	\$ 950.00	\$ 950.00	\$ 950.00
2-2	4 added Bollards along transformer pad - Material & Labor - Tricon	1	LS				\$ 208.50	\$ 208.50	\$ 412.62	\$ 50.00	\$ 50.00	\$ 671.12
2-3							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-4							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-5							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-6							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Totals</b>							\$ 208.50	\$ 208.50	\$ 412.62	\$ 1,000.00	\$ 1,000.00	\$ 1,621.12

**Delta = Orange - Blue** (pos # is total add, neg # is total deduct)      0.0      \$ 208.50      \$ 412.62      \$ 1,000.00      \$ 1,621.12

NOTES: Delta = (Addition total - Base Bid total)

The above costs do not include any contractual markups.

Project Manager or Authorized Designee Signature

X

Date:

## Tom Shedek

---

**From:** Matthew Koopmann <matthew@egglestonconcrete.com>  
**Sent:** Tuesday, October 14, 2025 3:50 PM  
**To:** Andy Knapp  
**Cc:** Tom Shedek  
**Subject:** RE: Tiffin WTPU: Transformer Pad Changes COR

**\$950 - 2x19' Strip with thickened Edge for Bollard mounts. Including Expansion joint against Transformer**

---

**From:** Andy Knapp <andyknapp@triconcg.com>  
**Sent:** Tuesday, October 14, 2025 12:04 PM  
**To:** Matthew Koopmann <matthew@egglestonconcrete.com>  
**Cc:** Tom Shedek <tomshedek@triconcg.com>  
**Subject:** Re: Tiffin WTPU: Transformer Pad Changes COR

Matt  
The added area with be almost 19' now.  
Please account for that in your pricing.

Thank You  
**Andy Knapp** | Field Manager

### TRICON CONSTRUCTION GROUP

C: [563.451.3796](tel:563.451.3796)  
[andyknapp@triconcg.com](mailto:andyknapp@triconcg.com)



[746 58<sup>th</sup> Ave. Ct. SW](#)  
[Cedar Rapids, IA 52404](#)  
T: [563.588.9516](tel:563.588.9516) | F: [563.588.9519](tel:563.588.9519)

On Oct 14, 2025, at 9:00 AM, Matthew Koopmann <[matthew@egglestonconcrete.com](mailto:matthew@egglestonconcrete.com)> wrote:

Yes sorry just seeing this, I'll get this back to you.

Thanks,

Matthew Koopmann

Eggleston Concrete Contractors

On Oct 14, 2025, at 08:18, Andy Knapp <[andyknapp@triconcg.com](mailto:andyknapp@triconcg.com)> wrote:

**Tiffin WTPU: Transformer Pad Relocation COR**

**Refer to RFI #4**

Tricon:	Labor:	Hours	Rate	Total
	Laborer	3	\$ 69.50	\$ 208.50
Tricon:	Material:	Product	Cost	Total
		Bollards	\$ -	\$ -
		Bollards Covers + Shipping (U-Line)	\$ 45.00	\$ 210.86
		316 SS Anchors	\$ 35.00	\$ 70.00
		316 SS Anchor Nuts	\$ 0.61	\$ 9.76
		316 SS Anchor Washers	\$ 0.43	\$ 6.88
		Anchor Epoxy	\$ 60.00	\$ 60.00
		Rubber Pads under Bollards	\$ 13.78	\$ 55.12
		Misc drill bits for anchors	\$ 50.00	\$ 50.00
				\$ 462.62
<b>TOTAL</b>				<b>\$ 671.12</b>

## REVIEW AND SUBMIT

[CART](#) [ADDRESS](#) [SHIPPING](#) [PAYMENT](#) **REVIEW AND SUBMIT**

Submit Order

Billing Address	Shipping Address <a href="#">Change</a>	Shipping <a href="#">Change</a>	Payment <a href="#">Change</a>
TRICON CONSTRUCTION GROUP 1230 E 12TH ST DUBUQUE, IA 52001-2330  Uline Account #: 11260208 Order Placed by: TOM SHEDEK	TRICON CONSTRUCTION GROUP 746 58TH AVENUE CT SW CEDAR RAPIDS, IA 52404-4818  ATTN: Andy Knapp	UPS Ground Delivery Time: 1 day Ships: Today Delivers on: 10/21/2025 Ships From: HUDSON, WI  Add Special Instructions	Invoice Me - Pay within 30 days  PO# Tiffin WTP  Add Priority code <a href="#">?</a>

Model #	Description	Unit Cost	Qty	Ext. Cost
H-9231Y	Smooth Bollard Sleeve - 6 x 56", Yellow	\$45.00 / EA	4	\$180.00

You qualify for a free item! [Select here.](#)

[Pricing Request](#) [?](#)

Subtotal = \$180.00  
~~Tax = \$12.60~~  
 Shipping/Handling = \$30.86  
 Total = ~~\$223.46~~  
 210.86

Text me order updates from Uline. [?](#)  
 (913) 238-6689 [Edit](#)

Submit Order

## Smooth Bollard Sleeve - 6 x 56", Yellow



### INDOOR/OUTDOOR

Maintenance-free protection with a clean, finished look.

- Stays brighter longer. UV resistant, holds 98% of color for 5 years.
- High-density polyethylene can be trimmed to fit.
- Installation kit included.
- Made in the USA.

[More Images & Video](#)

SPECIFY COLOR:

MODEL NO.	DESCRIPTION	FITS POST DIAMETER	DIAMETER		HEIGHT	PRICE EACH			COLOR	IN STOCK SHIPS TODAY
			OUTSIDE	INSIDE		1	4	12+		
H-9231Y	Smooth	6"	7 1/4"	7"	56"	\$45 any quantity			<input type="checkbox"/> Yellow	1 <input type="button" value="ADD"/>

SHIPS VIA UPS

[Additional Info](#) [Parts](#) [Shopping Lists](#) [Request a Catalog](#)

<p><b>DIMENSIONS:</b></p> <ul style="list-style-type: none"> <li>• (2) Polyurethane Foam Strips: 100 x 1 1/2 x 3/4" (L x W x D)</li> <li>• Additional Info About Chart Dimensions:                     <ul style="list-style-type: none"> <li>◦ Fits Post Diameter:                             <ul style="list-style-type: none"> <li>▪ 6" when using sleeve with foam installation strips.</li> <li>▪ Will fit 7" post without using foam strips.</li> </ul> </li> <li>◦ Diameter (Outside):                             <ul style="list-style-type: none"> <li>▪ 7 1/4" is the overall diameter of the sleeve.</li> </ul> </li> </ul> </li> </ul> <p><b>THICKNESS:</b></p> <ul style="list-style-type: none"> <li>• Wall: 1/8"</li> </ul> <p><b>TEMPERATURE:</b></p> <ul style="list-style-type: none"> <li>• Performance: -40° to 140° F</li> </ul> <p><b>USAGE:</b></p> <ul style="list-style-type: none"> <li>• Recommended to be used with concrete bollards.</li> <li>• Too thick to cut with utility knife or hand cutter.                     <ul style="list-style-type: none"> <li>◦ Can be trimmed with Sawzall, Skilsaw or other device.</li> </ul> </li> </ul>	<p>Availability: <a href="#">In Stock</a> Unit Weight: 7.11 lbs.</p> <p>Last ordered 2 on 09/05/2023</p> <p><a href="#">Instructions</a></p> <p><a href="#">Catalog Page 605</a></p> <p><a href="#">Email Item</a></p> <p>Country of Origin: USA</p>
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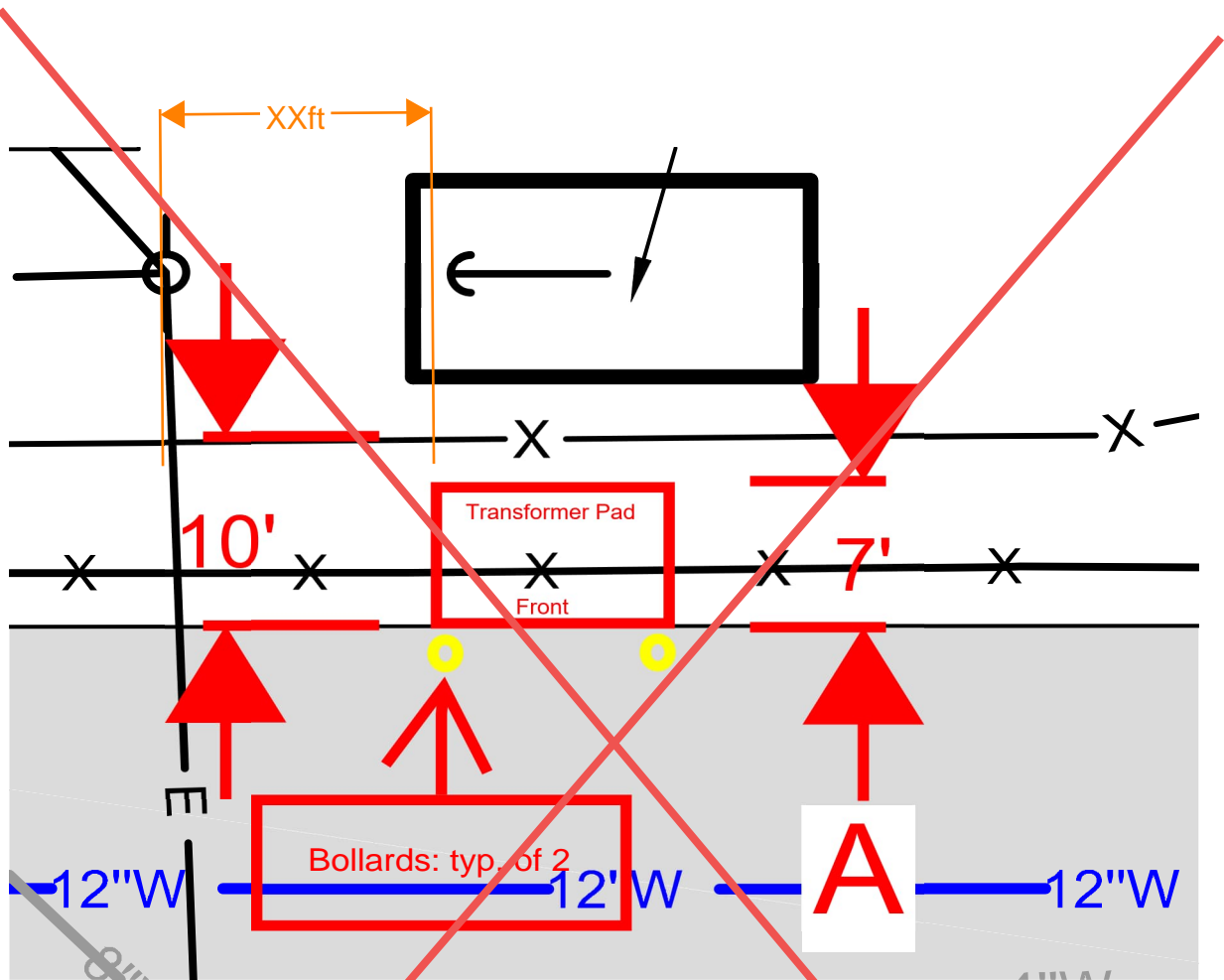
SAME DAY SHIPPING

HUGE SELECTION IN STOCK

SHIPS FROM 14 LOCATIONS







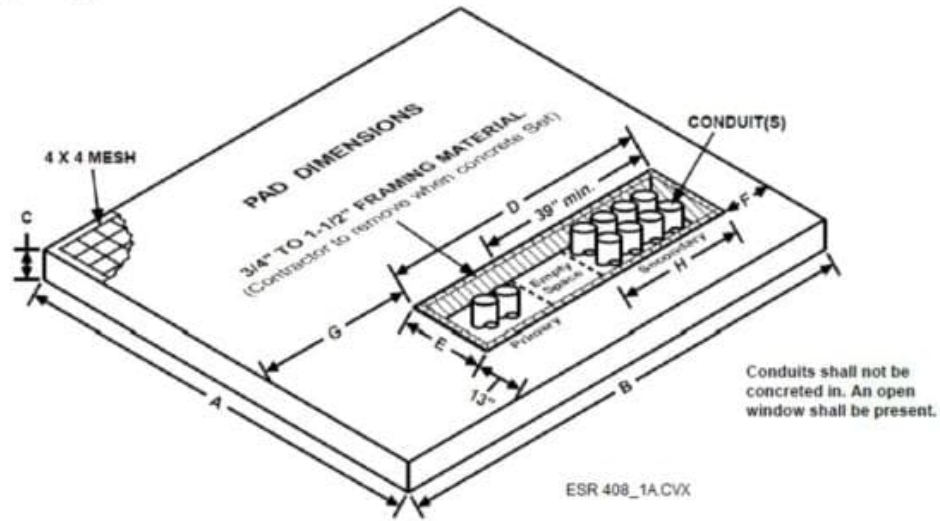
Transformer Pad Details:

Pad Size: 7' x 8' x 6"

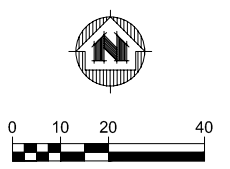
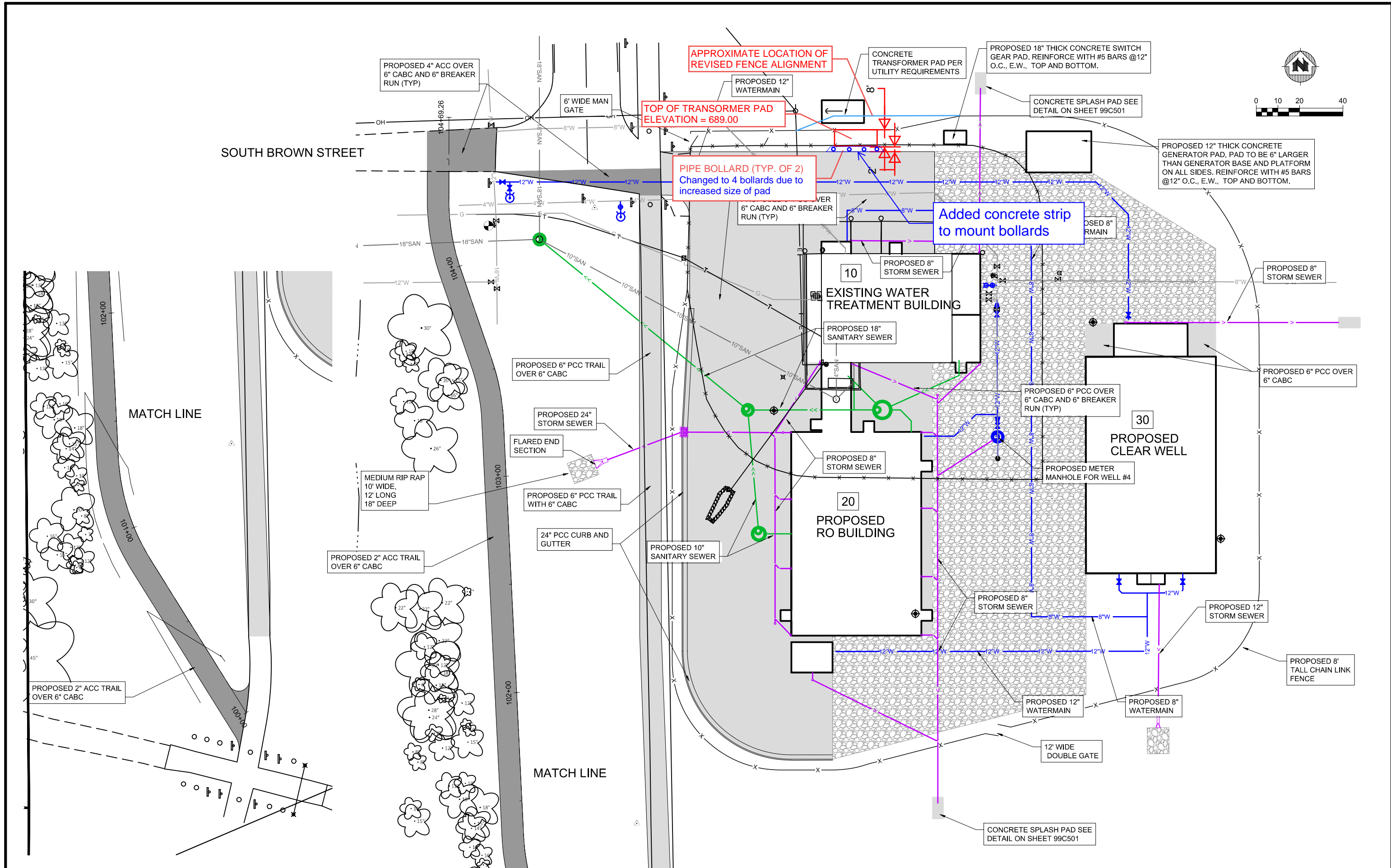
Alliant requires 3' on back/sides of pad and 10' in front

Per plans there is 10' of space between New fence and new concrete paving

Alliant is requesting protective measures for the transformer now that it's inside the fencing and adjacent to the concrete paving, such as bollards or other.



PAD	XFMR KVA	SERVICE SIZE		A	B	C	D	E	F	G	H
		208Y/120	480Y/277								
		AMPS		INCHES							
<del>I</del>	<del>750-2500</del>	<del>1000-12000</del>	<del>1000-3000</del>	<del>64</del>	<del>90</del>	<del>8</del>	<del>53</del>	<del>17</del>	<del>14</del>	<del>34</del>	<del>27</del>
II	750-2500	1600-3000	800-3000	105	108	8	60	17	14	34	27



PROJECT DATE:	NO.	DATE	REVISION	BY
DESIGNED BY: Init				
CHECKED BY: Init				

**MSA**  
 ENGINEERING | ARCHITECTURE | SURVEYING  
 FUNDING | PLANNING | ENVIRONMENTAL  
 400 Ice Harbor Drive, Dubuque IA 52001  
 (563) 582-3973 www.msa-ps.com  
 © MSA Professional Services, Inc.

**TIFFIN WATER TREATMENT PLANT UPGRADES**  
 CITY OF TIFFIN  
 JOHNSON COUNTY, IA

**PROPOSED SITE PLAN**

PROJECT NO:  
13603016  
 SHEET  
05C102



[www.triconcg.com](http://www.triconcg.com)  
746 58th Ave Ct SW  
Cedar Rapids, IA 52404  
Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

November 20, 2025

Clint Wiene  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 6 - RFI-010

Chemical Containment Curb Changes per attached.

Southside Concrete	954.50
OHP	47.73
General Liability Insurance	4.97
Bond	14.81
<b>Total</b>	<b>\$ 1,022.01</b>

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

11/20/2025  
Date

Clint Wiene - MSA Professional Services Inc

Date

City of Tiffin

Date

# Southside Concrete PROPOSAL

Scott McAtee / 4195 Saint Catherine Road / Bellevue IA 52031  
563.543.0464 / Southsideconcrete@yahoo.com

Submission Date: 10/31/2025  
Project: Tiffin WTP RFI # 10  
Project Address:  
Date of Plans:  
Submitted to:

I hereby submit specifications and estimates for:

RO BLDG - 6" containment curbs - 3 locations - RFI-010

Concrete 1 CY @ 180.00	\$ 180.00
Rebar	\$ 50.00
Add Water Stop	\$ 200.00
5 Man Hours @ 80.00	\$ 400.00
15% O/P	\$ 124.50
<b>TOTAL</b>	<b>\$ 954.50</b>

NOT INCLUDED:

I propose to furnish material and labor - complete in accordance with the above specifications per bid documents.

Respectfully submitted: Scott L. McAtee

This proposal may be withdrawn by Southside Concrete if not accepted within 30 days from submission date above. Any alterations/deviations from above specifications involving extra costs will be executed only upon written order and will become an extra charge over and above this estimate. All agreements contingent upon strikes, accidents, or delays beyond my control.

### Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. Southside is authorized to perform work as quoted. Payments will be made per bid documents.

Signature:

Date:



**RFI**

**To:** Clint Wiene  
MSA Professional Services  
400 Ice Harbor Drive #110  
Dubuque, IA 52001  
Ph: (563)582-3973 Fax: (563)582-4020

**RFI #:** 10  
**Date:** 10/14/2025  
**Job:** 25-012-IA Tiffin WTP  
**Phone:**

**CC:** Tom Shedek (Tricon General Construction), Andy Knapp (Tricon General Construction)

**Subject:** Chemical Containment Questions

**Drawing:** 20A101, 20M301, 20M302

**Spec Section:** 03 30 00

**Cost Impact:** TBD pending response to RFI

**Schedule Impact:** 0

<b>Request:</b>	<b>Date Required:</b> 10/21/2025
<ol style="list-style-type: none"> <li>Please provide the wall height for the chemical containment walls in the RO Building.</li> <li>Please provide details as to how water stop should be applied for the chemical containment areas in the RO Building along the precast and block walls.</li> </ol>	
<b>Requested by:</b> Betty Keuter Tricon General Construction	

<b>Response:</b>
<p>1. By code there needs to be 110% of stored volume for containment. Wall heights we had were as follows:          Caustic Soda Room (20-104)= 18" (need 550 gallons of storage)          Chlorine Room (20-105) = 18" (need 550 gallons of storage)          Anti-Scalant Room (20-102) = 15" (need 83 gallons of storage)          The wall heights and dimensions can be adjusted as necessary for precast changes, etc. as long as the required storage volumes are satisfied.</p> <p>2. It would probably make sense to pour a 6" tall concrete curb to ensure there is not an leakage of chemical at the precast wall and CMU wall interfaces. 4" pvc waterstop would be installed in the floor slab at the concrete wall/curb interfaces. Hydrophylic waterstop shall be installed at the vertical interfaces between the precast/CMU walls and the concrete walls. See snip below on next page for reference.</p>
<hr/> <b>Clint Wiene</b>
<hr/> Answered by <b>MSA</b>
<hr/> Company
<hr/> <b>October 21, 2025</b>
<hr/> Date



**KEY NOTES**

- 1 DOWNSPOUT LOCATION, CONNECT INTO STORM DRAIN - SEE YARD PIPING PLAN
- 2 PAINTED PIPE BOLLARD - DETAIL 5/99S504
- 3 FIRE EXTINGUISHER w/ WALL BRACKET - MOUNT TOP AT MAX 48" AFF.
- 4 MOTOR CONTROL CENTER - SEE ELECTRICAL
- 5 MEZZANINE ABOVE THIS AREA
- 6 COUNTER W/ CABINETS BELOW AND WALL HUNG CABINETS - SEE INTERIOR ELEVATIONS
- 7 TRENCH DRAIN - SEE PLUMBING
- 8 EMERGENCY SAFETY STATION (EYE/FACE WASH AND DRENCH SHOWER) - SEE PLUMBING
- 9 PROCESS MECHANICAL EQUIPMENT OR PIPE, TYP. - SEE PROCESS

**KEY NOTES**

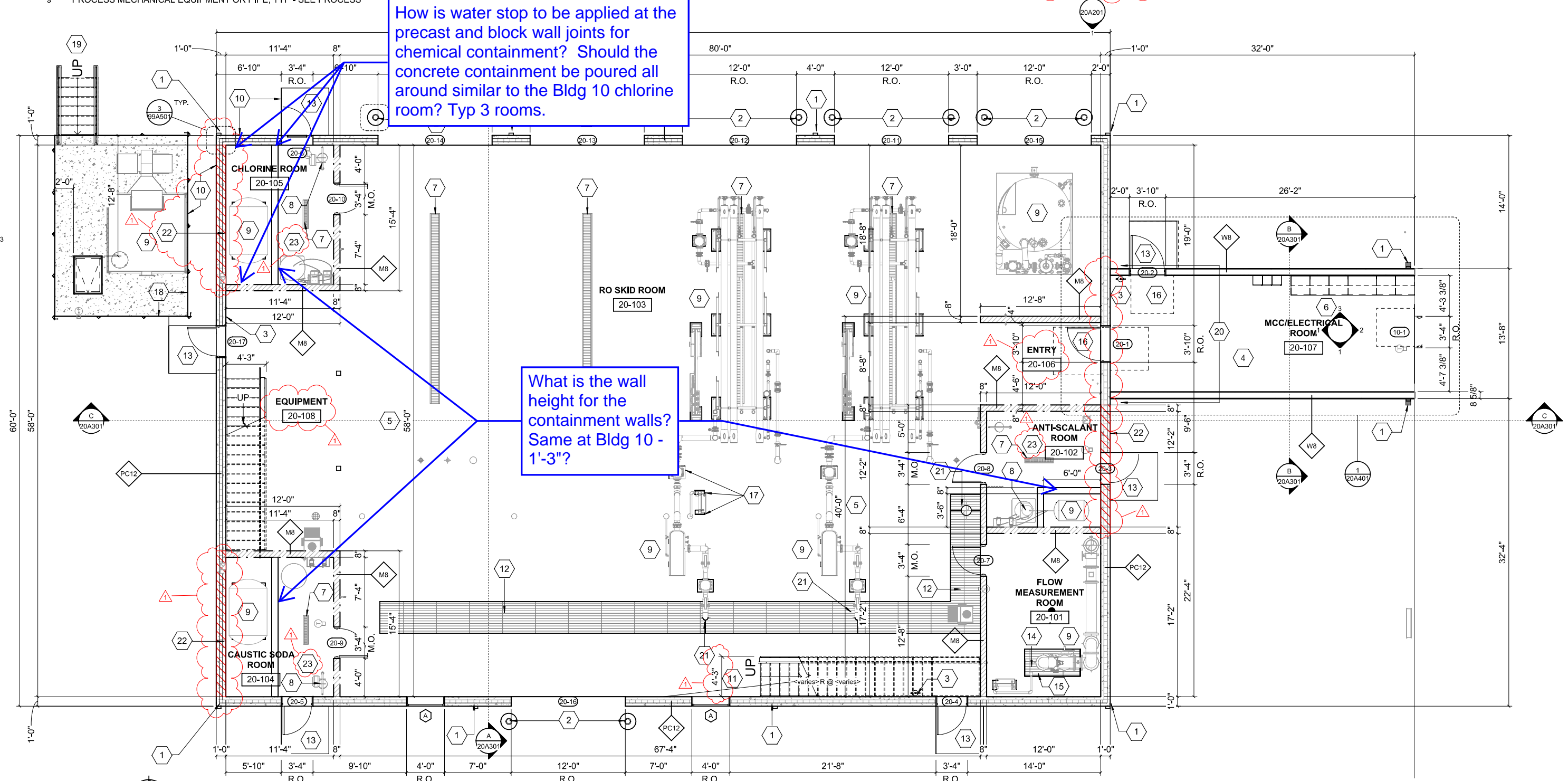
- 10 1/2" EXPANSION JOINT MATERIALS w/ REMOVABLE CAP AND SELF-LEVELING SEALANT BETWEEN SIDEWALK, BUILDING AND STOOP FOUNDATION, TYP
- 11 WOOD FRAMED STAIRS w/ GUARDRAIL AND HANDRAIL. SEE DETAIL 1/99A501
- 12 HD PULTRUDED FIBERGLASS GRATING OVER PIPE GALLERY
- 13 CONCRETE STOOP - SEE FOUNDATION PLAN
- 14 SUMP LOCATION - SEE STRUCTURAL
- 15 FIBERGLASS GRATING OVER PIPE GALLERY

**KEY NOTES**

- 16 DASHED LINE INDICATES ADA REQUIRED CLEAR AREA, FOR GRAPHIC PURPOSES ONLY - TYP.
- 17 PROCESS EQUIPMENT PAD, TYP. - SEE STRUCTURAL
- 18 ALUMINUM GUARD RAIL - SEE DETAIL
- 19 ALUMINUM STAIRS AND GUARDRAIL - SEE DETAIL
- 20 PRECAST EXTERIOR FACE TO HAVE SMOOTH FINISH 6" PAST EXTERIOR WALLS AND 3" ABOVE REGLET FLASHING ABOVE ROOFLINE IN THIS AREA
- 21 PROVIDE SPLIT GRATING AT PIPE PENETRATIONS FOR REMOVAL PURPOSES
- 22 SHADED AREA OF PRECAST TO HAVE 1-HOUR FIRE RATING
- 23 1-HOUR RATED ROOM

How is water stop to be applied at the precast and block wall joints for chemical containment? Should the concrete containment be poured all around similar to the Bldg 10 chlorine room? Typ 3 rooms.

What is the wall height for the containment walls? Same at Bldg 10 - 1'-3"?



**20-ARCHITECTURAL-PLAN-F.F.**  
 3/16" = 1'-0" (22" x 34")  
 3/32" = 1'-0" (11" x 17")

PROJECT DATE:	AUG 5, 2024	DRAWN BY:	JBR	No	1	DATE	8/19/2025	REVISIONS	BY
DESIGNED BY:	JBR	CHECKED BY:	CWW					PLAN REVIEW COMMENTS	CWW

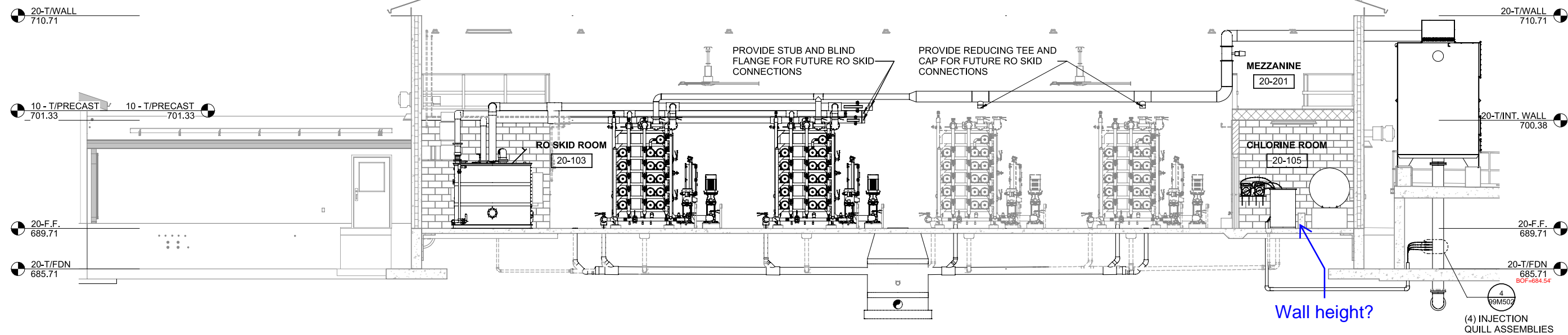
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**WATER TREATMENT FACILITY UPGRADE**  
 CITY OF TIFFIN  
 JOHNSON COUNTY, IA

**RO BUILDING**  
 ARCHITECTURAL FLOOR PLAN

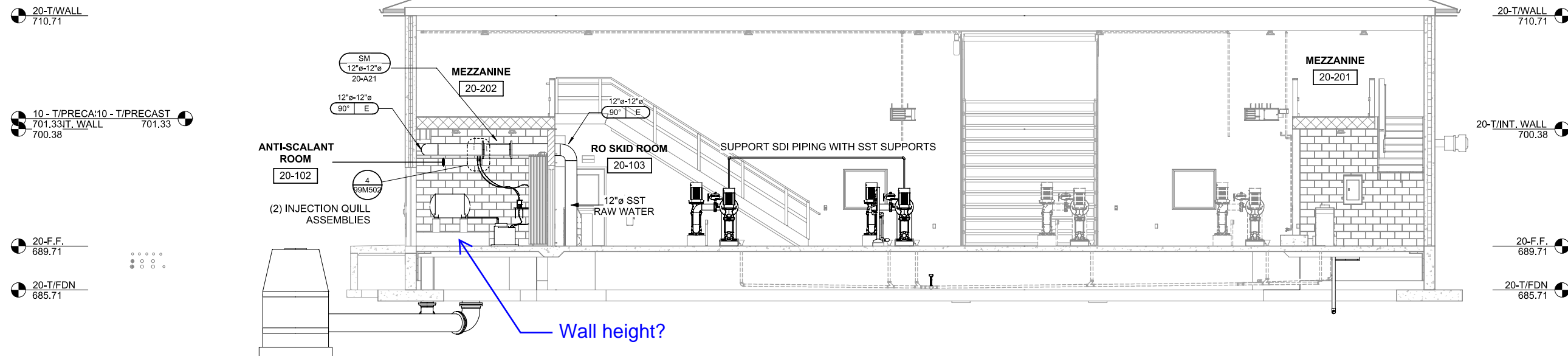
PROJECT NO.	13603016
SHEET	20A101

PLOT DATE: 8/20/2025 5:15:57 AM; Medium: C:\Users\jbr\AppData\Local\Temp\13603016\_TIFFIN\_IA\_VFP\_ARCH\20A101\_FFP.dwg



**A 20-PROCESS MECHANICAL-SECTION**

20M301 3/16" = 1'-0" (22" x 34") 0 2 4 8 12  
 3/32" = 1'-0" (11" x 17")



**B 20-PROCESS MECHANICAL-SECTION**

20M301 3/16" = 1'-0" (22" x 34") 0 2 4 8 12  
 3/32" = 1'-0" (11" x 17")

PLOT DATE: 24-08-2024 14:32 PM JobNumber: 13603016 - Tiffin IA WTP - ACCI 13603016 - Tiffin IA WTP - SAP-4

PROJECT DATE:	DRAWN BY:	No	DATE	REVISIONS	BY
AUG 5, 2024	JBR				
	DESIGNED BY: CWW				
	CHECKED BY: CWW				

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**WATER TREATMENT FACILITY UPGRADE**  
 CITY OF TIFFIN  
 JOHNSON COUNTY, IA

**RO BUILDING  
 PROCESS SECTION VIEWS**

PROJECT NO.  
13603016  
 SHEET  
20M301





[www.triconcg.com](http://www.triconcg.com)

746 58th Ave Ct SW  
Cedar Rapids, IA 52404

Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

November 20, 2025

Clint Wiene  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 7 - RFI-011

Building 10 Load Bearing Wall Changes per attached.

Southside Concrete	442.75
Seehase Masonry	<u>1,945.00</u>
Sub-Total	2,387.75
OHP	119.39
General Liability Insurance	12.44
Bond	<u>37.04</u>
<b>Total</b>	<b>\$ 2,556.62</b>

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

11/20/2025  
Date

Clint Wiene - MSA Professional Services Inc

Date

City of Tiffin

Date

# Southside Concrete PROPOSAL

Scott McAtee / 4195 Saint Catherine Road / Bellevue IA 52031  
563.543.0464 / Southsideconcrete@yahoo.com

Submission Date: 10/31/2025  
Project: Tiffin WTP RFI # 11  
Project Address:  
Date of Plans:  
Submitted to:

I hereby submit specifications and estimates for:

WTP BLDG		
Rod		\$ 100.00
Epoxy		\$ 125.00
Labor 2 hrs. @ 80.00		\$ 160.00
15% O/P		\$ 57.75
TOTAL		\$ 442.75

NOT INCLUDED:

I propose to furnish material and labor - complete in accordance with the above specifications per bid documents.

Respectfully submitted: Scott L. McAtee

This proposal may be withdrawn by Southside Concrete if not accepted within 30 days from submission date above. Any alterations/deviations from above specifications involving extra costs will be executed only upon written order and will become an extra charge over and above this estimate. All agreements contingent upon strikes, accidents, or delays beyond my control.

### Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. Southside is authorized to perform work as quoted. Payments will be made per bid documents.

Signature:

Date:

**ESTIMATE**

Seehase Masonry, Inc.  
1018 W 1st St  
Sumner, IA 50674

nate@seehasemasonry.com  
+1 (563) 578-3284



Tricon Construction, Inc.:Tiffin WTF Upgrades 25-23

Bill to  
Tricon Construction, Inc.

**Estimate details**

Estimate no.: 2867  
Estimate date: 11/20/2025  
Expiration date: 12/20/2025

P.O. Number: RFI 011 CMU Changes  
Sales Rep: Nate Schmidt

#	Description	Qty	Rate	Amount
1.	Material and labor to complete masonry related changes per request by Tricon Construction, dated 10/29/25. Changes to CMU walls per RFI 011.			\$1,945.00
			<b>Total</b>	<b>\$1,945.00</b>
			Expiry date	12/20/2025

Accepted date

Accepted by



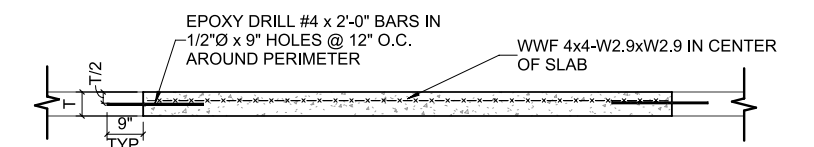
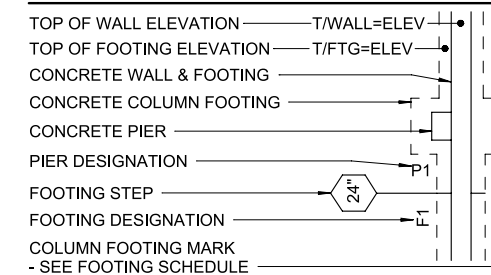
### STRUCTURAL GENERAL NOTES

- A. EXCAVATION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT (SEE PROJECT MANUAL APPENDIX FOR GEOTECHNICAL REPORT.)
- B. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PLANS FOR SIZE & LOCATION OF FLOOR/WALL OPENINGS AND PIPE PENETRATIONS NOT SHOWN. PROVIDE PIPE SLEEVES CAST INTO CONCRETE.
- C. SEE SHEET 99S601 FOR DESIGN LOADS AND CRITERIA, DESIGN STRESSES, AND STEEL REINFORCING TABLES.
- D. SEE SHEET 99S001 FOR GENERAL STRUCTURAL NOTES, CONCRETE & REINFORCING NOTES, AND SCHEDULES.
- E. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL DIMENSIONING.
- F. SEE 99S602 FOR ADDITIONAL STRUCTURAL SCHEDULES (FOOTING, FOUNDATION WALLS, ETC.)
- G. PROVIDE WATERSTOPS AT ALL VERTICAL & HORIZONTAL LIQUID-RETAINING JOINTS. PROVIDE PVC WATERSTOPS AT ALL WALL/BASE CONSTRUCTION JOINTS PER DETAIL 2/99S502.
- H. PROVIDE WATER-PROOFING CONCRETE ADMIXTURE AT ALL LIQUID-RETAINING ELEMENTS.

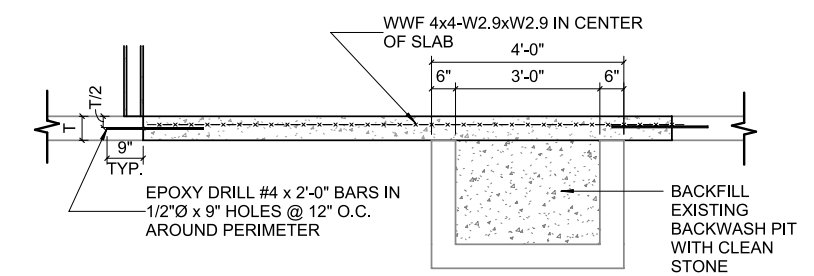
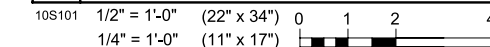
### KEY NOTES

- 1 PROVIDE (1) #5 DIAGONAL BAR x 18" IN CENTER OF FLOOR SLAB AT EACH CORNER OF DOOR OPENING, TYP - SEE DETAIL 3/99S501 (SIM). DO NOT CROSS CJ
- 2 THICKENED SLAB UNDER CMU WALL - LONGITUDINAL (2) #5 BARS (EQUALLY SPACED) - SEE DETAIL 6/99S501
- 3 CHEMICAL CONTAINMENT AREA: PROVIDE WATERSTOPS IN ALL JOINTS
- 4 1/2" RIGID INSULATION JOINT w/ REMOVABLE CAP AND SELF-LEVELING SEALANT AT PERIMETER SLAB-FOUNDATION WALL, TYP
- 5 NEW TO EXISTING FOUNDATION WALL JOINT. DRILL & EPOXY #5 BARS x 42" LONG @ 12" O.C. WITH 8" EMBEDMENT
- 6 6" THICK SLAB-ON-GRADE W/ 6x6-W2.9xW2.9 WWF OVER VAPOR BARRIER AND MIN. 12" COMPACTED GRANULAR FILL, SEE DETAIL 4/99S501
- 7 8" THICK x 30" TALL CHEMICAL TANK SUPPORT WALL. COORDINATE LAYOUT WITH APPROVED SHOP DRAWINGS FROM CHEMICAL TANK SUPPLIER.
- 8 CONCRETE SUPPORT FOR FD AERATOR BLOWER. MATCH SIZE OF EXISTING SUPPORT THAT IS TO BE REMOVED
- 10 HATCH INDICATES NON-BEARING CMU WALL LOCATED ON TOP OF SLAB-ON-GRADE

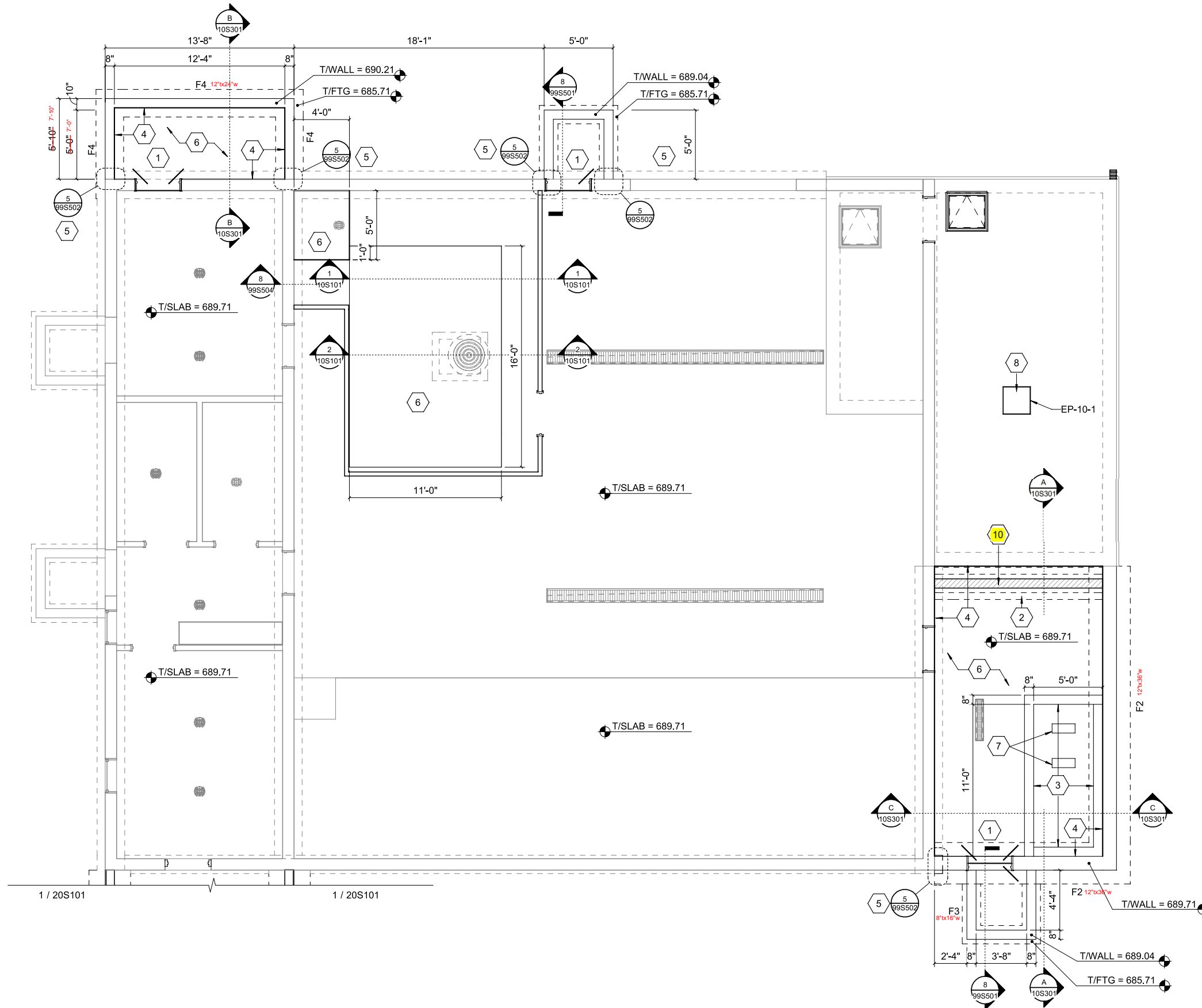
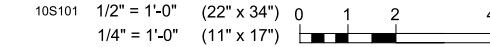
### FOUNDATION LEGEND



**EXISTING/PROPOSED SLAB CONNECTION DETAIL 1**



**EXISTING/PROPOSED SLAB CONNECTION DETAIL 2**



**10-STRUCTURAL-FOUNDATION PLAN**  
 1/4" = 1'-0" (22" x 34")  
 1/8" = 1'-0" (11" x 17")

PLOT DATE: 24/08/2024 14:39:39 Path: J:\Projects\10-Structural-Foundation Plan\10-Structural-Foundation Plan.dwg User: JBR Date: 24/08/2024 14:39:39 Path: J:\Projects\10-Structural-Foundation Plan\10-Structural-Foundation Plan.dwg User: JBR Date: 24/08/2024 14:39:39 Path: J:\Projects\10-Structural-Foundation Plan\10-Structural-Foundation Plan.dwg User: JBR

PROJECT DATE:	DRAWN BY:	DESIGNED BY:	CHECKED BY:	No	DATE	REVISIONS	BY
AUG 5, 2024	JBR	CWW	CWW				

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**WATER TREATMENT FACILITY UPGRADE**  
 CITY OF TIFFIN  
 JOHNSON COUNTY, IA

**EXISTING WTP  
 STRUCTURAL PLAN VIEW**

PROJECT NO. 13603016  
 SHEET 10S101

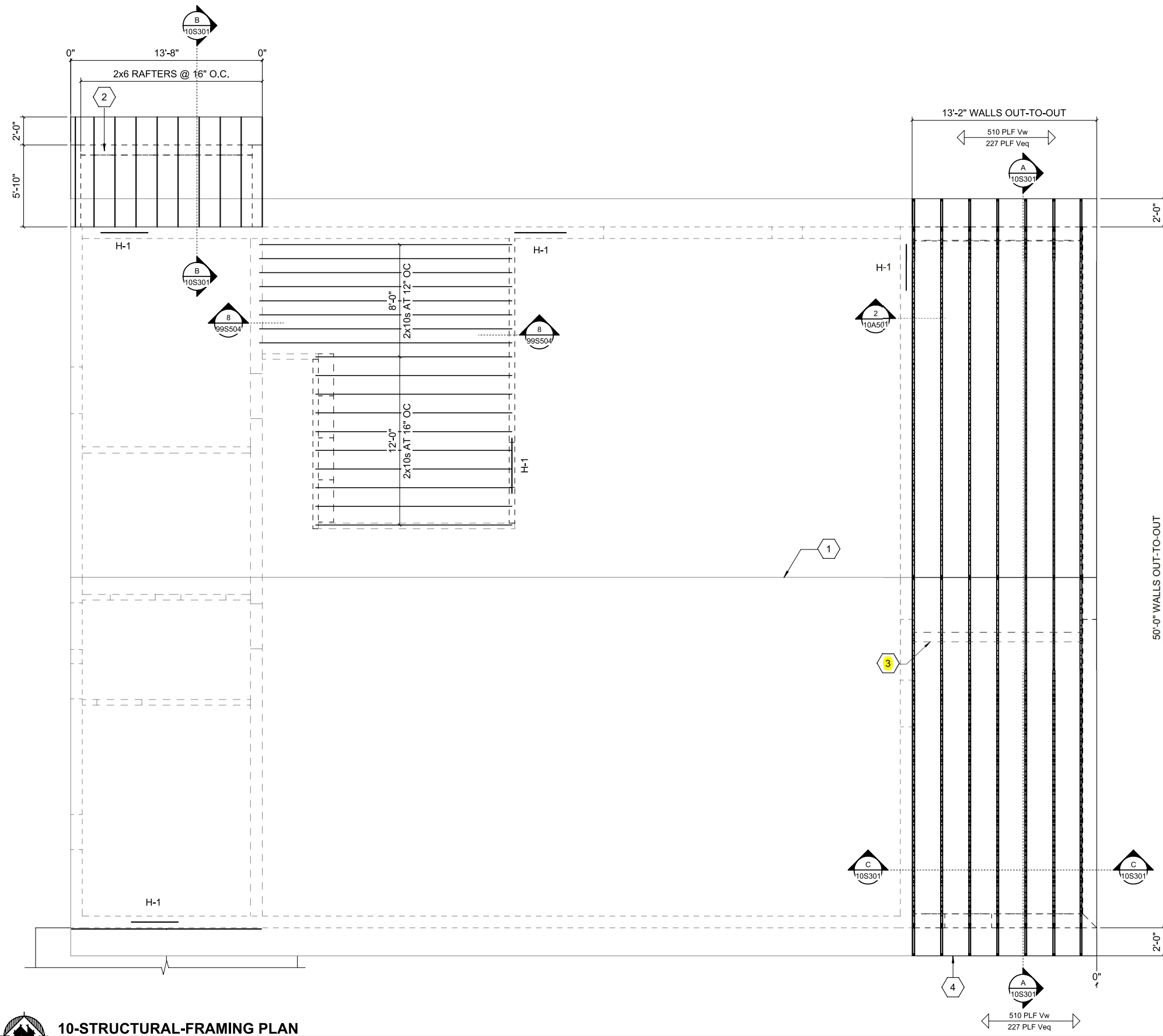
**GENERAL NOTES - FRAMING**

- A. REFER TO DRAWING 99S601 FOR DESIGN LOADING REQUIREMENTS.
- B. TRUSS MANUFACTURER TO DESIGN ALL TRUSS CONNECTIONS U.N.O.
- C. ALL ROOF TRUSSES SHALL BE BRACED WITH PERMANENT DIAGONAL BRACES PER DETAILS 5/99S504 AND 6/99S504 BASED ON TRUSS MANUFACTURER RECOMMENDATIONS.
- D. ~~AT GIRDER TRUSS LOCATIONS USE SIMPSON VGT TIE DOWN w/ 5/8" HILTI KWIK BOLT TZ INTO SOLID-GROUTED PRECAST PLANK w/ 3 1/2" EMBED.~~
- E. FASTEN TRUSSES WITH SIMPSON H10A TIE AT EACH TRUSS BEARING, UNO, TYPICAL

**KEY NOTES**

- 1 RIDGE LINE
- 2 LOAD BEARING WALL: 2x6 STUDS AT 16" OC (UNO) TO BOTTOM OF TRUSSES w/ PT BOTTOM PLATE OVER SILL SEALER (FULL WIDTH OF PLATE) AND DOUBLE TOP PLATE
- 3 **NON-LOAD BEARING MASONRY WALL w/ #5 BARS AT 18" OC** 48" (MSA)
- 4 2x10 FASCIA BOARD
- 5 PRECAST ROOF AND WALL PANEL TO BE DESIGNED FOR TRUSS REACTION LOADS (UNFACTORED)

TYP TRUSS	TYP TRUSS
DL = 0.8K	DL = 2.4K
LLr = 0.9K	LLr = 2.6K
SL = 1.0K	SL = 2.9K
MAX DRIFT = 2.3"	MAX DRIFT = N/A
*REACTION LOAD INCLUDES BALANCED LOAD AT DRIFT LOCATION	



HEADER SCHEDULE		
MARK	SYMBOL	DESCRIPTION
H-1		(3) 2x8s NAILED TOGETHER - FILL VOID w/ FIBERGLASS BATT INSUL AT EXTERIOR WALLS. (1) 2x BRG STUD AND (2) 2x FULL-HEIGHT KING STUDS EACH SIDE OF OPENING, DEPTH OF STUD TO MATCH WALL STUD.

**GENERAL NOTES**

- ALL HEADERS AT OPENINGS SHALL HAVE A MINIMUM OF 1 1/2" BEARING AT EACH END UNLESS NOTED OTHERWISE
- HEADER MATERIAL: SEE DESIGN STRESSES ON SHEET 99S602
- ALL BUILT-UP HEADERS SHALL INCLUDE (1) TOP AND (1) BOTTOM 2x (STUD WIDTH) PLATE AS PART OF THE HEADER AND TO RUN FULL LENGTH OF HEADER
- USE (H-1) HEADER AT ALL MISC EXTERIOR WOOD FRAMING OPENINGS UNDER 36" IN LENGTH
- UNLESS NOTED OTHERWISE, PROVIDE (1) FULL HEIGHT KING STUD EACH SIDE OF OPENINGS 4 FT OR LESS. UNLESS NOTED OTHERWISE, PROVIDE (2) FULL HEIGHT KING STUDS EACH SIDE OF OPENINGS GREATER THAN 4 FT.
- BUILT-UP BEAMS AND HEADERS FASTENER PATTERN: TWO HORIZ ROWS OF 16d NAILS AT 12" OC, EACH SIDE OF MEMBER. STAGGER PATTERN ON EACH SIDE TO AVOID NAILING CONFLICTS.

**10-STRUCTURAL-FRAMING PLAN**  
 1/4" = 1'-0" (22" x 34")  
 1/8" = 1'-0" (11" x 17")

PLOT DATE: 3/4/2025 1:58:59 PM JobNumber: 012603016 - Tiffin WTP - ACCI 13603016 - Tiffin WTP - 24P-4

PROJECT DATE:	DRAWN BY:	DESIGNED BY:	CHECKED BY:	No	DATE	REVISIONS	BY
AUG 5, 2024	JBR	KB	CWW		7/10/2025	RFI-002	

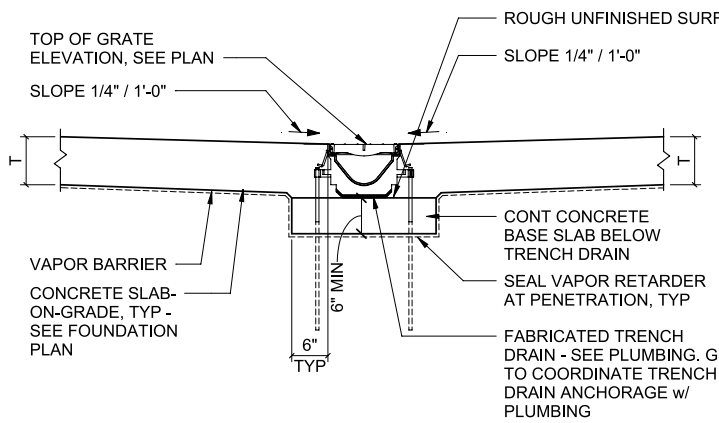
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**WATER TREATMENT FACILITY UPGRADE**  
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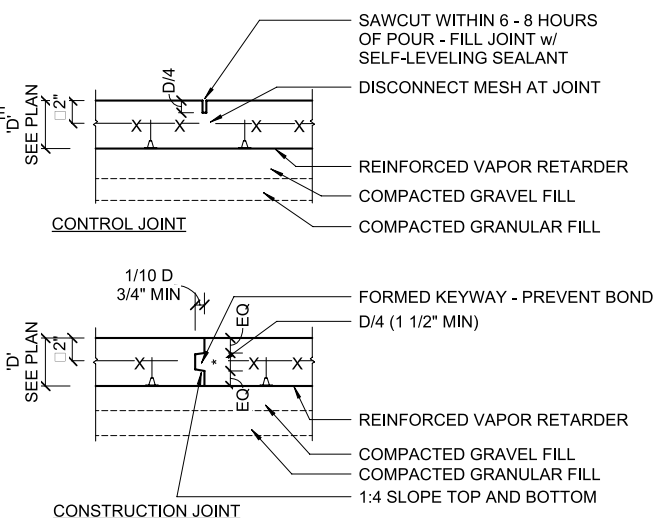
**EXISTING WTP  
 STRUCTURAL FRAMING PLAN**

PROJECT NO. 13603016  
 SHEET 10S102

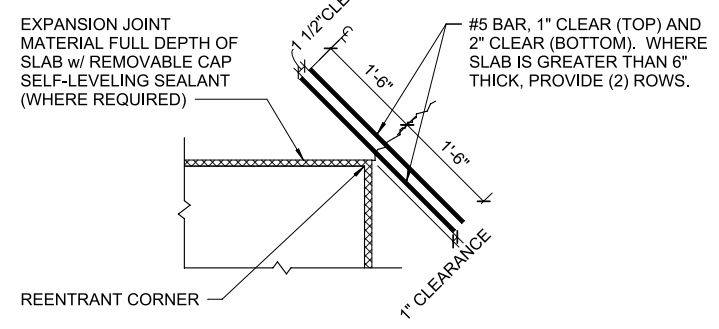
**NOTES:**  
 1. COORDINATE SIZE AND LOCATION WITH TRENCH DRAIN MANUFACTURER, ARCHITECTURAL AND MECHANICAL AND DRAWINGS.  
 2. SEE TYPICAL SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION.



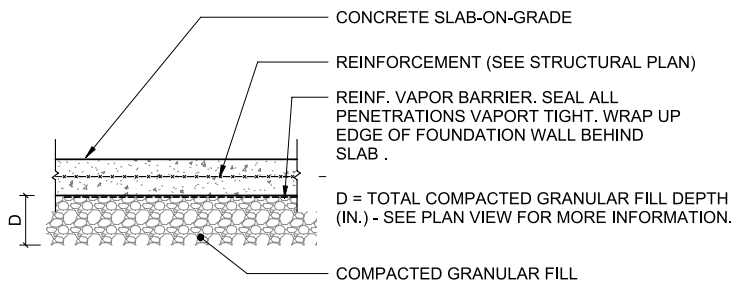
**1 TYPICAL TRENCH DRAIN DETAIL**  
 99S501 NOT TO SCALE



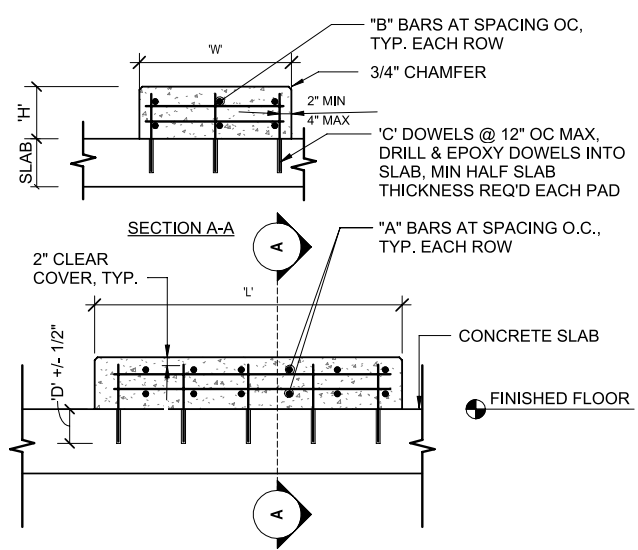
**2 TYPICAL SLAB ON GRADE JOINT CJ DETAIL**  
 99S501 NOT TO SCALE



**3 TYPICAL SLAB REENTRANT CORNER DETAIL**  
 99S501 NOT TO SCALE

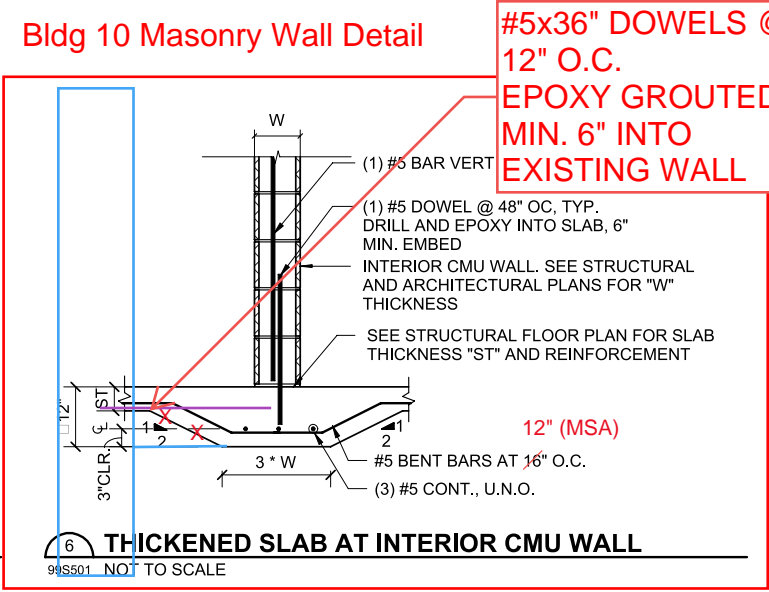


**4 TYPICAL SLAB-ON-GRADE VAPOR BARRIER DETAIL**  
 99S501 NOT TO SCALE

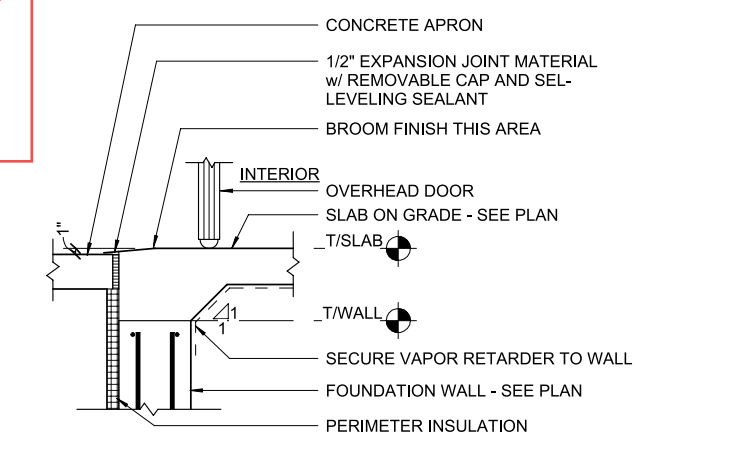


**5 TYPICAL RAISED EQUIPMENT PAD DETAIL**  
 99S501 NOT TO SCALE

**NOTE:**  
 1. COORDINATE CONCRETE BASE DIMENSIONS, ELEVATIONS, AND LOCATION(S) BASED ON APPROVED EQUIPMENT SHOP DRAWINGS. CONFIRM ANY REQUIRED PENETRATIONS (IF NECESSARY) PRIOR TO BASE CONSTRUCTION. BEFORE EQUIPMENT PADS ARE CAST, THE PAD SIZES AND REINFORCING SHALL BE APPROVED BY THE ENGINEER AS BEING CAPABLE OF SUPPORTING THE EQUIPMENT TO BE PLACED. EQUIPMENT BASE DIMENSIONS SHALL BE THE LARGER OF WHAT IS INDICATED ON THE DRAWINGS OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY ENGINEER. SUBMIT ALL EQUIPMENT DIMENSIONS AND LOADS TO ENGINEER.  
 2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER.  
 3. PROVIDE SLAB CONTROL JOINTS IF LENGTH EXCEEDS 20 FT.  
 4. BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE (TOLERANCE IS 1/8" ACROSS PLAN DIAGONALS).  
 5. COORDINATE SLAB LOCATION AND ORIENTATION WITH SITE CIVIL. REFER TO MECHANICAL, ELECTRICAL, PROCESS, ARCHITECTURAL, AND STRUCTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL NOTES & DETAILS. WHERE NECESSARY, CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH ELECTRIC UTILITY PRIOR TO POURING PAD.  
 6. SEE TYPICAL REINFORCEMENT AT SLAB OPENING DETAIL FOR ADDITIONAL REINFORCEMENT AT OPENINGS IF REQUIRED.  
 7. INCREASE SLAB THICKNESS AS REQUIRED TO MAINTAIN A MINIMUM OF 3" COVER BELOW EQUIPMENT ANCHORS.  
 8. PROVIDE A MINIMUM OF LEVEL 1" NON-SHRINK GROUT BELOW EACH EQUIPMENT BASE PLATE CONNECTION TO PAD OR AS REQUIRED BY EQUIPMENT MANUFACTURER.

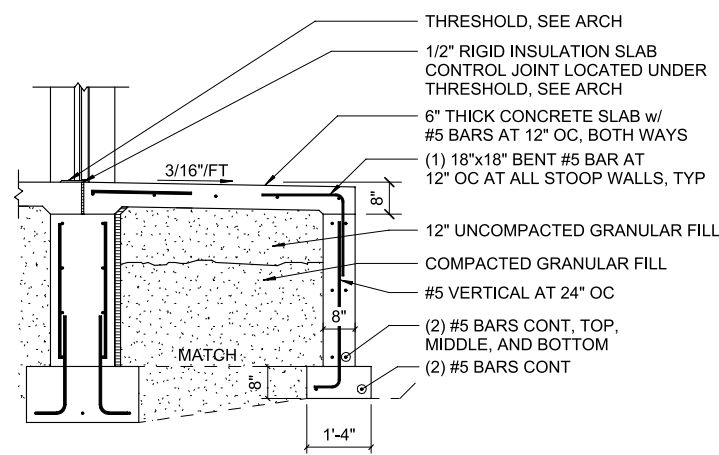


**6 THICKENED SLAB AT INTERIOR CMU WALL**  
 99S501 NOT TO SCALE

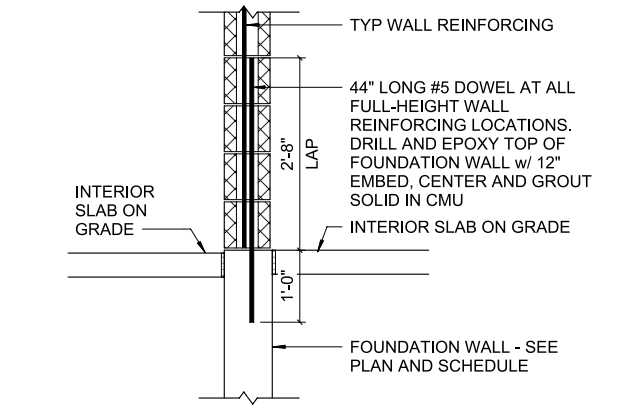


**7 OVERHEAD DOOR SILL DETAIL**  
 99S501 NOT TO SCALE

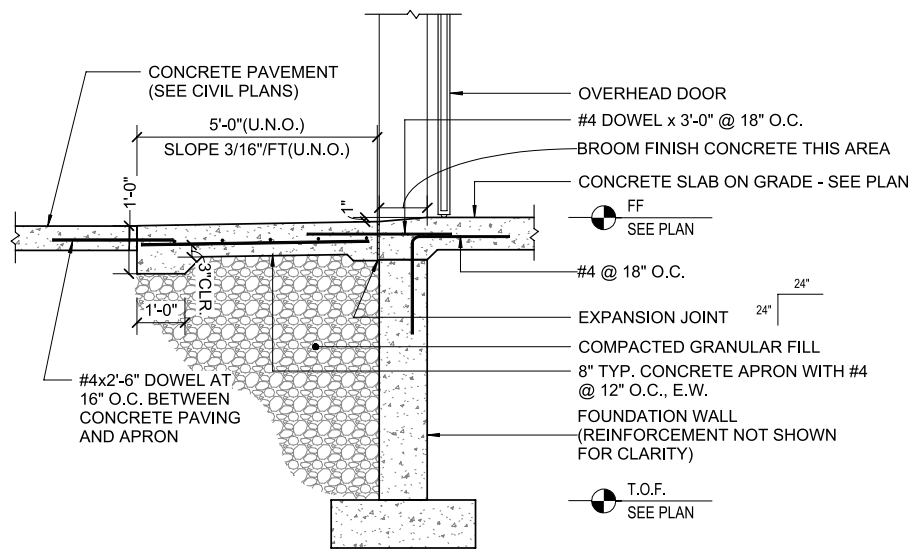
**NOTES:**  
 1. STOOP IS A STRUCTURAL SLAB; THEREFORE, REINFORCEMENT AND SLAB THICKNESS ARE CRITICAL.  
 2. SEE ARCH FOR THRESHOLD DETAILING.



**8 STOOP DETAIL**  
 99S501 NOT TO SCALE



**9 TYP CMU WALL DOWELS REINFORCING**  
 99S501 NOT TO SCALE



**10 TYPICAL CONCRETE APRON DETAIL**  
 99S501 NOT TO SCALE

PLOT DATE: 3/20/25 1:18:13 PM Location: C:\Users\jbr\OneDrive\Documents\13603016 - TFFIN IA VTP - ACCT\13603016\_TFFIN VTP\_S&P.dwg

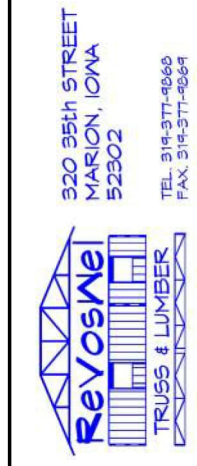
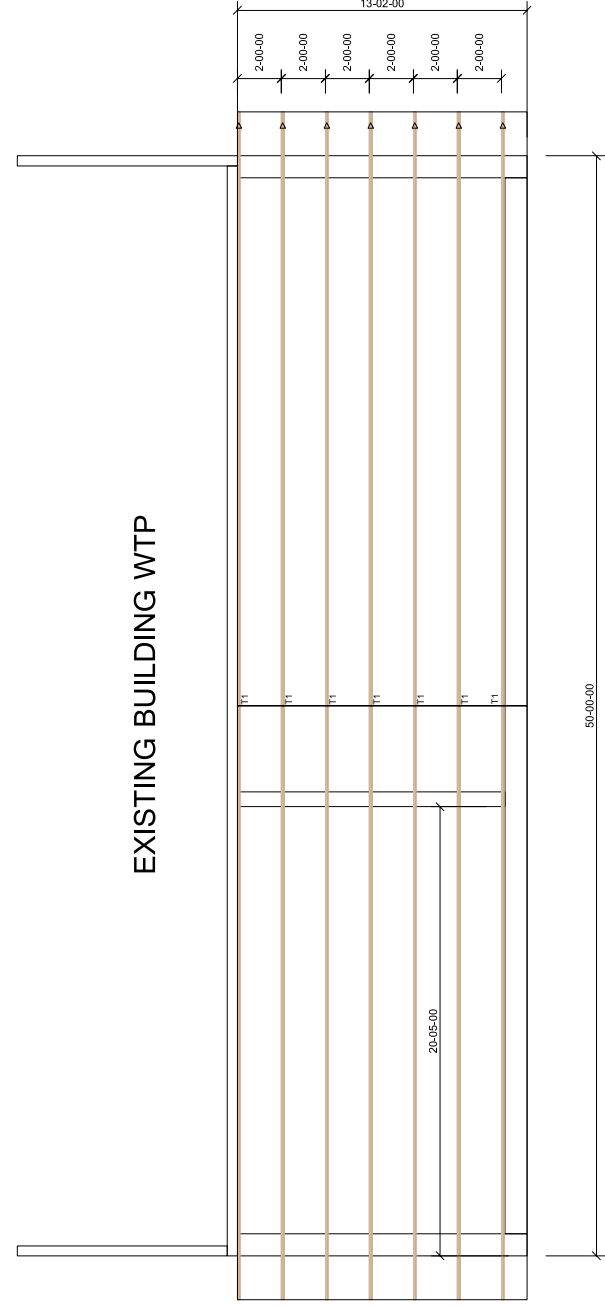
PROJECT DATE:	AUG 5, 2024	DRAWN BY:	JBR	No	DATE	REVISIONS	BY
DESIGNED BY:	KB	CHECKED BY:	CWW				

**MSA** ENGINEERING | ARCHITECTURE | SURVEYING  
 FUNDING | PLANNING | ENVIRONMENTAL  
 400 ICE HARBOR DR, STE 110, DUBUQUE IA 52001  
 (563) 582-3973 www.msa-ps.com  
 © MSA Professional Services, Inc.

**WATER TREATMENT FACILITY UPGRADE**  
 CITY OF TIFFIN  
 JOHNSON COUNTY, IA

**TYPICAL DETAILS AND SCHEDULE**  
**TYPICAL STRUCTURAL DETAILS**  
 PROJECT NO. 13603016  
 SHEET 99S501





320 35th STREET  
MARION, IOWA  
52302  
TEL: 319-377-4569  
FAX: 319-377-4569

Client: TRICON

Address:

Contact:

Scale: 1/4"=1'-0"

Sales: PAT HENDRICKS

Date: 10/8/2025

Drawn By: DARREN BURRITCHER

Job # 25157A-R

Sheet Desc.: ROOF TRUSS LAYOUT

Site Information: TIFFIN WATER TREATMET PLANT

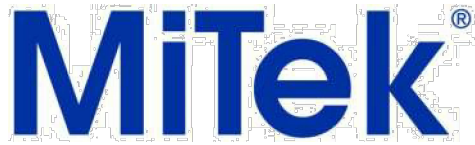
EXISTING BUILDING ADDITION

BUILDING CODE: IBC2015  
SNOW LOAD APPLIED: YES  
GROUND SNOW: 25 PSF  
ROOF SNOW: 18 PSF

LOADING:  
TCLL = 20 PSF  
TCCL = 10 PSF  
BCCL = 0 PSF  
BCDL = 10 PSF

DEFLECTION:  
L/360 LIVE LOAD  
L/240 TOTAL LOAD

WIND LOADING  
120 MPH EXP "B"



MiTek, Inc.  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws on the State of Iowa.

October 8, 2025

Delbert, Ryan

My license renewal date is December 31, 2026..

Pages or sheets covered by this seal: I76896070 thru I76896070

TRICON - TIFFIN WATER TREATMENT

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

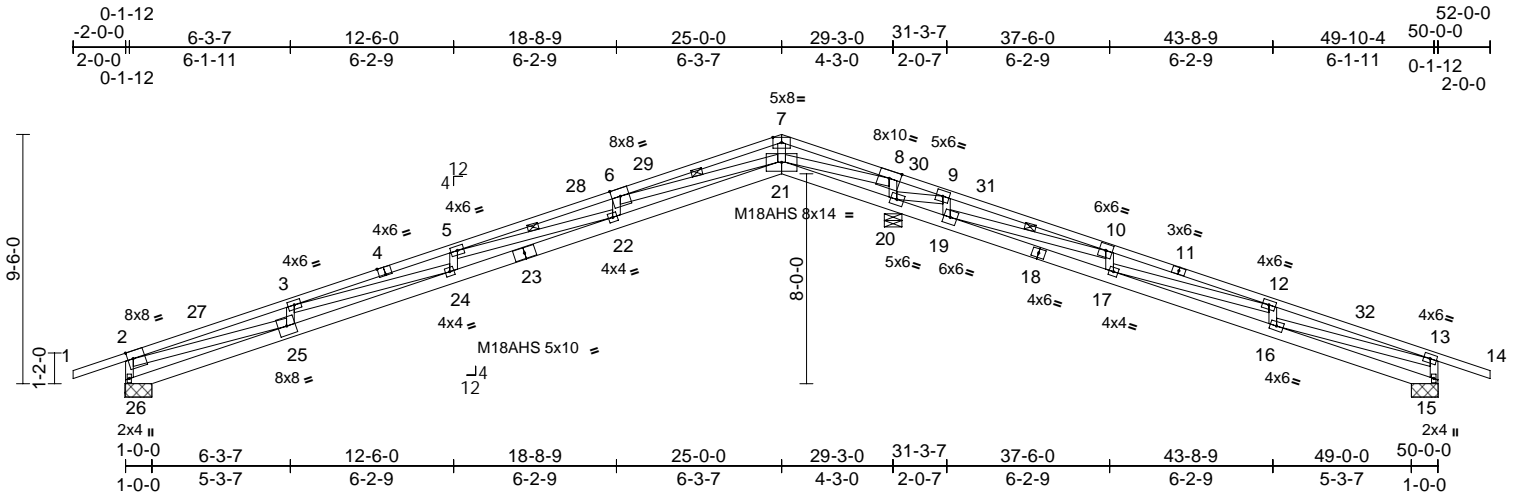
CC: Revoswel Truss & Lumber, LLC  
320 35th Street  
Marion IA, 52302 ,

Job	Truss	Truss Type	Qty	Ply	TRICON - TIFFIN WATER TREATMENT	176896070
25157A-WTP	T1	Roof Special	7	1	Job Reference (optional)	

Revoswel Truss & Lumber, LLC, Marion, IA - 52302,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 14:01:57  
 ID:sYiux9n8RgtVjvZ7ywpHslyVo7q-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDOI7J4zJC?f

Page: 1



Scale = 1:87.8

Plate Offsets (X, Y): [2:0-2-8,Edge], [4:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.75	22-24	>466	360	MT20	197/144
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-1.34	22-24	>261	240	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.34	20	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-R								
BCDL	10.0										Weight: 254 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SPF 2100F 1.8E  
 BOT CHORD 2x6 SP 2400F 2.0E  
 WEBS 2x4 SPF No.2 \*Except\* 8-21:2x4 SPF 2100F 1.8E

**WEBS** 7-21=-711/201, 2-26=-1027/215, 13-15=-680/210, 6-21=-4313/363, 3-25=-630/114, 2-25=-152/4049, 3-24=-19/1501, 5-24=-136/73, 5-22=-1591/180, 6-22=0/329, 8-21=0/4881, 9-19=0/764, 10-19=-3330/176, 10-17=0/278, 12-17=-1304/31, 12-16=-263/104, 13-16=-108/2075, 8-20=-1274/25, 9-20=-2062/144

**LOAD CASE(S)** Standard

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 4-2-7 oc bracing.

**REACTIONS** (size) 15=1-0-0, 20=0-8-0, 26=1-0-0  
 Max Horiz 26=19 (LC 7)  
 Max Uplift 15=-182 (LC 8), 20=-47 (LC 7), 26=-181 (LC 7)  
 Max Grav 15=765 (LC 20), 20=2479 (LC 2), 26=1128 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/66, 2-3=-4276/212, 3-5=-5842/290, 5-6=-4591/197, 6-7=-155/739, 7-8=-151/750, 8-9=-79/5151, 9-10=0/3609, 10-12=-1570/942, 12-13=-2220/166, 13-14=0/66  
 BOT CHORD 25-26=-37/35, 24-25=-151/4232, 22-24=-168/5795, 21-22=-27/4584, 20-21=-5201/319, 19-20=-3566/169, 17-19=-918/1559, 16-17=-124/2176, 15-16=-23/16

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. III; Exp B; Enclosed; C-C Exterior (2) -2-0-0 to 3-0-0, Interior (1) 3-0-0 to 25-0-0, Exterior (2) 25-0-0 to 30-0-0, Interior (1) 30-0-0 to 52-0-0; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category III; Exp B; Partially Exp.; Ct=1.00
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
  - All plates are MT20 plates unless otherwise indicated.
  - Bearing at joint(s) 26, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 26, 182 lb uplift at joint 15 and 47 lb uplift at joint 20.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 20.



October 8, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

**MiTek**

16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com



[www.triconcg.com](http://www.triconcg.com)

746 58th Ave Ct SW  
Cedar Rapids, IA 52404

Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

April 1, 2026

Clint Wiener  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 8R

**\*Combined Valve Revisions per attached.**

*12" Permeate Valve Addition and Butterfly Valve Deduct 20-A18, 20-A19, 20-A20*

Mellen & Associates	(679.00)
Core & Main	(633.75)
Tricon	<u>(200.00)</u>
Sub-Total	(1,512.75)
OHP	(75.64)
General Liability Insurance	(7.88)
Bond	<u>(23.47)</u>
<b>Total</b>	<b>(\$ 1,619.74)</b>

**Please Note:** The above costs include the previously submitted COR-009, which is now considered void.

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

4/1/2026  
Date

Clint Wiener - MSA Professional Services Inc

Date

City of Tiffin

Date

**ITEM ANALYSIS**

Project	<u>Tiffin Water Treatment Facility Upgrade</u>	Location	<u>Tiffin, IA</u>
Description	<u>12" Permeate Butterfly Valve Addition in FD Aerator Vault</u>	Estimator	<u>Tom Shedek</u>
Contractor	<u>Tricon Construction Group</u>	Date	<u>11/25/2025</u>

Item #	Description	QTY	Units	Unit Rate	Man-hours	Labor Expense		Permanent Materials Engineered Equipment		Sub Contracts		Total Direct Cost		
						Wages		U.P.	Total	U.P.	Total		U.P.	Total
						U.P.	Total							
<b>Base Bid Costs (Deducts)</b>														
1-1							\$ -		\$ -		\$ -	\$ -		
1-2							\$ -		\$ -		\$ -	\$ -		
1-3							\$ -		\$ -		\$ -	\$ -		
1-4							\$ -		\$ -		\$ -	\$ -		
1-5							\$ -		\$ -		\$ -	\$ -		
1-6							\$ -		\$ -		\$ -	\$ -		
<b>Totals</b>							\$ -		\$ -		\$ -	\$ -		
<b>Base Bid Changes per Team/City Request</b>														
2-1	12" BFV addition - Mellen - Tricon	1	EA				\$ -	\$ 6,321.00	\$ 6,321.00		\$ -	\$ 6,321.00		
2-2	Additional 12" bolt kit/gasket - UECO - Tricon	1	LS				\$ -	\$ 361.75	\$ 361.75		\$ -	\$ 361.75		
2-3	Labor - 2 Pipefitters @ 2MH = 4 MH - Tricon	1	LS		4.00	\$ 100.00	\$ 400.00	\$ -	\$ -		\$ -	\$ 400.00		
2-4							\$ -		\$ -		\$ -	\$ -		
2-5							\$ -		\$ -		\$ -	\$ -		
2-6							\$ -		\$ -		\$ -	\$ -		
<b>Totals</b>					<b>4.00</b>		<b>\$ 400.00</b>	<b>\$ 6,682.75</b>	<b>\$ 6,682.75</b>		<b>\$ -</b>	<b>\$ 7,082.75</b>		
<b>Delta = Orange - Blue (pos # is total add, neg # is total deduct)</b>					<b>4.0</b>		<b>\$ 400.00</b>	<b>\$ 6,682.75</b>	<b>\$ -</b>	<b>\$ 7,082.75</b>				

NOTES: Delta = (Addition total - Base Bid total)

The above costs do not include any contractual markups.

Project Manager or Authorized Designee Signature

**X**

Date:



**MELLEN &  
ASSOCIATES, INC.**

3404 S. 11th St., Council Bluffs, IA 51501

**QUOTATION#:** 2025-11-11-JC-1  
**QUOTATION DATE:** November 11, 2025  
**PREPARED BY:** Jordan Cedillo  
 Ph: (712) 322-9333  
 Fax: (712) 322-6557  
 jcedillo@melleninc.com

**PROJECT NAME:** Tiffin, IA - Add-on 12" Butterfly Valve

**QUOTED TO:** Tom Shedek  
 119 S BROWN STREET  
 TIFFIN, IA 52430

**TERMS:** 100% Net 30 Days  
**F.O.B.:** Factory  
**FREIGHT TERMS:** Freight Allowed

Item No.	Tag	Quantity	Size	Description		
		1	12	Butterfly AWWA, Flanged, AIS, Handwheel		
					<b><i>SUB-TOTAL</i></b>	<b><i>\$ 6,321</i></b>

**TERMS & CONDITIONS**

- Price does not include mechanical joint accessories, valve boxes, special coatings, special tagging, tee operating wrenches, flange gaskets, bolts, installation services, test certifications, field start up services, special crating, extended warranties or packaging for export - unless otherwise noted.
- State and local use taxes are not included. Tax exempt certificates must be provided if the project is determined to be tax exempt.
- A maximum of 8 printed Submittal & O&M will be provided on double-sided prints in a loose, unbound, and untabbed format. Electronic copies will be available via e-mail as an Adobe Acrobat PDF file. Any requirements for special formatting, including but not limited to, binders, separation tabs, Color Prints, Single-Sided Prints, Compact Disc or USB Flash Drive will be subject to additional charges.
- This quotation was prepared with limited specifications, and/or application data. Any subsequent changes to materials, coatings, features, actuation, accessories, or otherwise shall require a re-quotation.
- This quotation is limited to the scope, supply & descriptions above. Please review all necessary valve/tag schedules, and installation drawings to ensure all items are included.
- This quotation/order is subject to the manufacturers' acceptance, standard warranty and terms and conditions (available upon request).
- This repair quote is an estimate only. Should the need for additional parts and repairs be discovered after repair work has begun or during testing, this quote will be adjusted to reflect the cost of additional repairs. You will be notified prior to the repair being accomplished.
- Mellen & Associates will provide a Certificate of Insurance upon request but will not issue Additional Insured certificates. In addition we will not accept any terms that waive subrogation or include any non-contributory contract language."
- Automated valve packages, Field Service, and Start-Up may be invoiced separately.
- Delivery quotes represent an estimate only, with all items quoted as "subject to prior sale".
- Pricing will be held for 30 days.
- Freight allowance is based on a single shipment at the discretion of the Seller. Freight costs for partial shipments will be borne by the Buyer.

**ADDITIONAL COMMENTS**

- Please reference quotation number 2025-11-11-JC-1 on all purchase orders & correspondence.
- Purchase Orders resulting from this quotation shall be issued to "Mellen & Associates, Inc".
- Shutoff valves associated with Fire/Yard Hydrant equipment, are assumed to be provided 'by others', and are not included this this quotation.



Bid Proposal for REV 2 Tricon Process TIFFIN WTP UPGRADES

Bid #: 4561648

Seq#	Qty	Description	Units	Price	Ext Price
740	21	12 316SS B8M B&N SET USA	EA	355.00	7,455.00
750	21	12X1/8 FLG FF RR GASKET	EA	6.75	141.75

1 each - 12" 316SS bolt kit & Gasket = \$355.00 + 6.75 = \$361.75

[www.triconcg.com](http://www.triconcg.com)

2245 Kerper Blvd  
 Suite 2  
 Dubuque, IA 52001  
 P 563.588.9516  
 F 563.588.9519

TF 866.588.9516

10/8/2025

**Tiffin Water Treatment Facility Upgrades**

**Tricon Construction Group – T&M Labor Rates 2025**

<b>Field Labor:</b>	<b>Heavy Sewer/ Water</b>	<b>Building</b>
Laborer :	\$69.50 hr	\$73.81 hr
Carpenter :	\$87.88 hr	\$78.77 hr
Concrete Finisher:	\$78.77 hr	\$78.77 hr
Ironworker/ Welder:	\$89.21 hr	\$86.41 hr
Operator:	\$87.33 hr	\$87.33 hr
Pipefitter:	\$100.00 hr	\$100.00 hr
Foreman:	\$110.00 hr	\$110.00 hr
General Foreman:	\$120.00 hr	\$120.00 hr

Overtime rates at 1.5 times apply after 8hrs Monday-Friday  
 All rates on Saturday at 1.5 times  
 All rates on Sunday and Holidays at 2 times

**ITEM ANALYSIS**

Project	Tiffin Water Treatment Facility Upgrade	Location	Tiffin, IA
Description	Butterfly Valve Deduct - 20-A18, A19, A20	Estimator	Tom Shedek
Contractor	Tricon Construction Group	Date	12/9/2025

Item #	Description	QTY	Units	Unit Rate	Man-hours	Labor Expense		Permanent Materials		Sub Contracts		Total Direct Cost
						Wages		Engineered Equipment				
						U.P.	Total	U.P.	Total	U.P.	Total	
<b>Base Bid Costs (Deducts)</b>												
1-1	Valve Deduct - 20-A18, 20-A19, 20-A20 - Mellen	3	Ea				\$ -	\$ 2,333.33	\$ 7,000.00	\$ -	\$ -	\$ 7,000.00
1-2	2" Bolt/ Gasket Kits - Core & Main	4	Ea				\$ -	\$ 165.75	\$ 663.00	\$ -	\$ -	\$ 663.00
1-3	3" Bolt/ Gasket Kits - Core & Main	2	Ea				\$ -	\$ 166.25	\$ 332.50	\$ -	\$ -	\$ 332.50
1-4	Valve Installation Labor - 2 PF @ 2MH/valve				6.00		\$ 100.00	\$ 600.00	\$ -	\$ -	\$ -	\$ 600.00
1-5							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-6							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Totals</b>				<b>6.00</b>		<b>\$ 600.00</b>	<b>\$ 7,995.50</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,595.50</b>
<b>Base Bid Changes per Team/City Request</b>												
2-1							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-2							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-3							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-4							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-5							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2-6							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Totals</b>						<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>Delta = Orange - Blue (pos # is total add, neg # is total deduct)</b>					6.0		\$ 600.00	\$ 7,995.50	\$ -	\$ -	\$ (8,595.50)
--	--	--	--	--	-----	--	-----------	-------------	------	------	---------------

NOTES: Delta = (Addition total - Base Bid total)

The above costs do not include any contractual markups.

Project Manager or Authorized Designee Signature

X

Date:



**MELLEN &  
ASSOCIATES, INC.**

3404 S. 11th St., Council Bluffs, IA 51501

**QUOTATION#:** 2025-08-19-JC-1  
**QUOTATION DATE:** August 19, 2025  
**PREPARED BY:** Jordan Cedillo  
 Ph: (712) 322-9333  
 Fax: (712) 322-6557  
 jcedillo@melleninc.com

**PROJECT NAME:** Tiffin, IA - Water Treatment Facility Upgrade - Yard Pipe Deduct

**QUOTED TO:** Tricon - Tom Shedek

**TERMS:** 100% Net 30 Days  
**F.O.B.:** Factory  
**FREIGHT TERMS:** Freight Allowed

Item No.	Tag	Quantity	Size	Description
<b>RO Building</b>				
5	20-A18, 19	2	6	DeZURIK AWWA Butterfly Valve, AIS, Flanged, Handwheel
6	20-A20	1	8	DeZURIK AWWA Butterfly Valve, AIS, Flanged, Handwheel
				<b>DEDUCT \$ 7,000</b>

**TERMS & CONDITIONS**

- Price does not include mechanical joint accessories, valve boxes, special coatings, special tagging, tee operating wrenches, flange gaskets, bolts, installation services, test certifications, field start up services, special crating, extended warranties or packaging for export - unless otherwise noted.
- State and local use taxes are not included. Tax exempt certificates must be provided if the project is determined to be tax exempt.
- A maximum of 8 printed Submittal & O&M will be provided on double-sided prints in a loose, unbound, and untabbed format. Electronic copies will be available via e-mail as an Adobe Acrobat PDF file. Any requirements for special formatting, including but not limited to, binders, separation tabs, Color Prints, Single-Sided Prints, Compact Disc or USB Flash Drive will be subject to additional charges.
- This quotation was prepared with limited specifications, and/or application data. Any subsequent changes to materials, coatings, features, actuation, accessories, or otherwise shall require a re-quotation.
- This quotation is limited to the scope, supply & descriptions above. Please review all necessary valve/tag schedules, and installation drawings to ensure all items are included.
- This quotation/order is subject to the manufacturers' acceptance, standard warranty and terms and conditions (available upon request).
- This repair quote is an estimate only. Should the need for additional parts and repairs be discovered after repair work has begun or during testing, this quote will be adjusted to reflect the cost of additional repairs. You will be notified prior to the repair being accomplished.
- Mellen & Associates will provide a Certificate of Insurance upon request but will not issue Additional Insured certificates. In addition we will not accept any terms that waive subrogation or include any non-contributory contract language."
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- Delivery quotes represent an estimate only, with all items quoted as "subject to prior sale".
- Pricing will be held for 30 days.
- Freight allowance is based on a single shipment at the discretion of the Seller. Freight costs for partial shipments will be borne by the Buyer.

**ADDITIONAL COMMENTS**

- Please reference quotation number 2025-08-19-JC-1 on all purchase orders & correspondence.
- Purchase Orders resulting from this quotation shall be issued to "Mellen & Associates, Inc".



Bid Proposal for REV 2 Tricon Process TIFFIN WTP UPGRADES

Bid #: 4561648

Seq#	Qty	Description	Units	Price	Ext Price
770		<b>8" PVC-FILL/RETURN</b>			
780		<b>FROM CIP TANK TO RO SKIDS</b>			
840	8	8 316SS B8M B&N SET USA W/ 4-1/4" BOLTS	EA	162.00	1,296.00
860	1	8X1/8 FLG FF RR GASKET	EA	4.25	4.25
900		<b>6" PVC CLN-FEED</b>			



## Bid Proposal for REV 2 Tricon Process TIFFIN WTP UPGRADES

Bid #: 4561648

Seq#	Qty	Description	Units	Price	Ext Price
960	1	6X1/8 FLG FF RR GASKET	EA	3.75	3.75
970	8	6 316SS B8M B&N SET USA W/ 4-1/4" BOLTS	EA	162.00	1,296.00



[www.triconcg.com](http://www.triconcg.com)

746 58th Ave Ct SW  
Cedar Rapids, IA 52404

Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

December 26, 2025

Clint Wiene  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 10

New Air Intake in MCC Room per attached.

Fosters Kraus Mechanical Group	3,177.59
OHP	158.88
General Liability Insurance	16.55
Bond	49.29
<b>Total</b>	<b>\$ 3,402.31</b>

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

12/26/2025  
Date

Clint Wiene - MSA Professional Services Inc

Date

City of Tiffin

Date



FostersKraus.com  
 999 Enterprise Drive Suite 100  
 Marion, IA 52302  
 319-377-6325

# CONTRACTOR CHANGE ORDER REQUEST SUMMARY

Project Name: TIFFIN WWT

Date: 11/20/2025

Project Number:

Prime Contractor Direct Costs TRICON

Description of Change:

DUCT ADD IN MMC ROOM

**Prime Contractor Direct Costs**

**Additive Costs**

HVAC Materials						\$ 220.00
Plumbing Materials						\$ -
HVAC Labor	16.00	Hours	@	Rate	\$ 120.00	\$ 1,920.00
Plumbing Labor	0.00	Hours	@	Rate	\$ 120.00	\$ -
Hydronic						\$ -
Insulation						\$ 248.72
Core-Drilling						\$ -
Test & Balance						\$ 500.00
Permits						\$ -
Equipment Rental						\$ -
Travel/Per Diems						\$ -
<b>Subtotal of Additive</b>						<b>\$ 2,888.72</b>

**Deductive Costs**

HVAC Materials						\$ -
Plumbing Materials						\$ -
HVAC Labor	0.00	Hours	@	Rate	\$ 120.00	\$ -
Plumbing Labor	0.00	Hours	@	Rate	\$ 120.00	\$ -
Hydronic						\$ -
Insulation						\$ -
Core-Drilling						\$ -
Controls Contractor						\$ -
Permits						\$ -
Equipment Rental						\$ -
Travel/Per Diems						\$ -
<b>Subtotal of Deductive Costs</b>						<b>\$ -</b>

Subtotal

\$ 2,888.72

Total OH&P

Rate 10% \$ 288.87

\$ 288.87

**Total Change Order Request**

**\$ 3,177.59**

**Approvals**

Brian Kraus, Vice President  
 Fosters Kraus Plumbing, Heating, & Air

Date

Name:

Date:

General Contractor:

**PRICE BREAKOUT- DUCT ADD MMC ROOM**

SHEET METAL	\$100		
FAB/INSTALL LABOR	\$1,920	16 HRS	\$120 PER HR
INSULATION MATERIALS	\$38.72		
INSULATION LABOR	\$210	3 HRS	\$70 PER HR
2- TG-1 TRANSFER GRILLES	\$120		
TEST & BALANCE	\$500		

## Change Order Request Form

**Project Name:** Tiffin Water Treatment Facility Upgrade  
**Project Number:** 13603016  
**Owner / Client:** City of Tiffin  
**General Contractor:** Tricon Construction Group (Fosters Kraus Mechanical)  
**Date of Request:** 11/19/25  
**Change Order #:** 2

### 1. Description of Change

Change request to add ductwork for fresh air intake to TG-1.

### 2. Scope of Work Affected

- Labor  
 Materials  
 Equipment  
 Schedule  
 Other: \_\_\_\_\_

Details:

### 3. Justification for Change

- Owner request  
 Unforeseen condition  
 Design change  
 Code / Safety requirement  
 Other: \_\_\_\_\_

Explanation:

# Change Order Request Form

## 4. Cost Impact

Description	Quantity	Unit Cost	Total Cost
Additional Material	1	38.72	38.72
Additional Labor	3	70.00	210.00
Subtotal			248.72
Overhead/Profit			
<b>Total Cost</b>			248.72

## 5. Schedule Impact

No impact

Adds \_\_\_\_\_ working days

Other: \_\_\_\_\_

## 6. Submitted By

Contractor Name: Hawkeye Insulation Specialists, Inc.

Submitted By: Michael J Devaney

Title: President

Signature: 

Date: Nov. 19, 2025

## 7. Approval

Approved

Denied

Pending Further Review

Approved By: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

# RIST AND ASSOCIATES, INC.

[www.ristandassociates.com](http://www.ristandassociates.com)

P.O. BOX 1807 \* 4 WASHINGTON AVE \* DES MOINES, IOWA 50306 \* 515-243-8720 \* FAX 515-243-8714

## QUOTATION

To: Fosters Kraus  
Attn: Sarah Sleep

Quote No: 84181

Project: MCC Room

Date: 11/19/2025

Arch:  
Engineer:

FOB: Factory Freight Allowed  
Delivery: See Below  
Estimated By: Brett Stoullil

Bid Date: 11/19/25

We are pleased to quote equipment for this project as follows:

<u>Qty</u>	<u>Tag</u>	<u>Price Industries</u>
2	TG-1	530 Steel Return Grille

**Note:** TG-1s include flat frame, countersunk screwholes, w/ screws, & B12 Std White finish.

*Standard Lead Time (Currently) = 3-4 Weeks Fabrication + Travel Time*

**Total \$120.00**

Quick Fab Options:

2-Day ADD \$45.00  
5-Day ADD \$30.00  
10-Day ADD \$15.00

\* Days listed are fabrication time only for the factory in business days. Shipping time not included.

CUT SHEETS ATTACHED

WE ACKNOWLEDGE ADDENDA THRU NO: \_\_\_\_\_ ~ 0 ~

THE ABOVE PRICES DO NOT INCLUDE ANY SALES, EXCISE, OCCUPATION NOR USE TAX AND ARE FIRM FOR THIRTY DAYS FROM THIS DATE. BEYOND THE 30 DAYS, FACTORY ESCALATION MAY BE ADDED TO THE ABOVE COSTS AT OUR DISCRETION. TERMS OF PAYMENT ARE NET 30 DAYS.



# Grilles, Registers, Diffusers Submittals

**Job Name:** MCC Room

**Project Number:**

**Job Location:**

**Customer:** Fosters Kraus

**Date Printed:** 2025-11-19

**Spec Section:** 15 - HVAC

**Contact:** Brett Stouilil  
P O BOX 1807, DES MOINES, IA,  
50305-1807

Email: [brett.stouilil@ristandassociates.com](mailto:brett.stouilil@ristandassociates.com)

**Notes:**



Price Select  
Grilles, Registers, Diffusers

Job Name MCC Room  
Entered By Brett Stoullil  
Rep Job No  
Location  
Customer Fosters Kraus

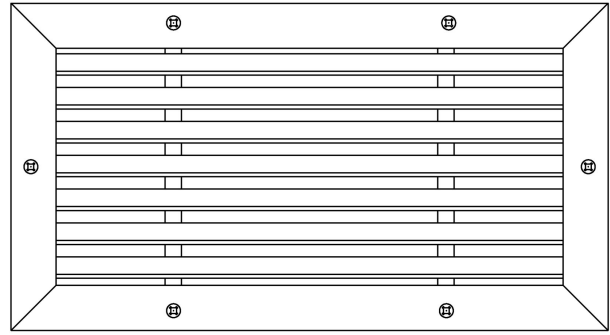
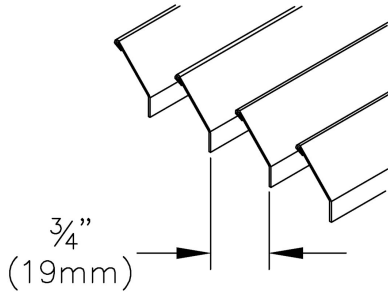
Contractor  
Engineer  
Sales Person Brett Stoullil  
Units Imperial

Model	Qty	Country	Unit Size	Border	Configuration
530	2	USA	14.000 x 12.000	F	L

### Performance Notes

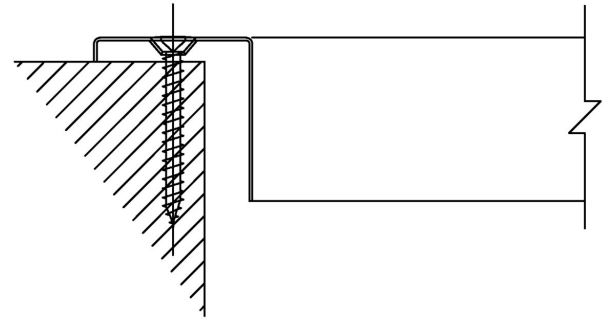
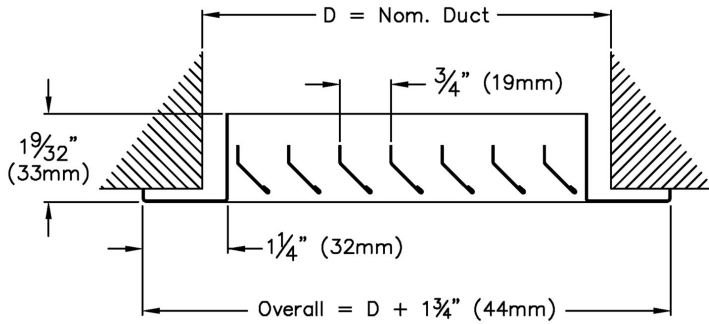
1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
2. The NC, sound pressure level, is based on a room absorption of 10dB re 10<sup>-12</sup> Watts in each octave band.
3. Blanks (-) indicate an NC level below 15.
4. Throw data is based on the temperature differential (Dt), in degrees Fahrenheit (°F), between supply air temperature and room temperature.
5. Throw values, in feet (ft), are provided at terminal air velocities of 150 fpm, 100 fpm, and 50 fpm for supply applications.
6. Air flow is in cubic feet per minute (cfm).
7. Static pressure (Ps), velocity pressure (Pv), and total pressure (Pt) are in inches of water (in. w.g.).

**Core Style:** Single Deflection



**Border:** F - Flat Frame

**Fastening:** A - Countersunk Screwholes c/w Screws



**Notes:**

- 45° deflection roll formed blades on 3/4" centers
- Factory tolerance  $\pm 1/32$ "

**Blade Pattern:**

- Blades parallel to long dimension

**Finish:**

- B12 - Standard White

**Material:**

- Grille - steel construction

**PROJECT:** MCC Room  
**ENGINEER:**  
**DESCRIPTION:** Steel Return Grille - 45 Deg Def, 3/4" Spacing  
 530-1-1//1/14.000/12.000/SM/F//0.000/0.000/L/A//B12

**SUBMITTAL NO:** 273597-0  
**CUSTOMER:** Fosters Kraus

**SUBMITTAL DATE:** 11/19/2025



[www.triconcg.com](http://www.triconcg.com)

746 58th Ave Ct SW  
Cedar Rapids, IA 52404

Corporate Office  
1230 East 12<sup>th</sup> Street  
Dubuque, IA 52001  
P 563.588.9516  
F 563.588.9519

February 28, 2026

Clint Wiene  
MSA Professional Services Inc  
400 Ice Harbor Dr  
Dubuque IA 52001

Project: Tiffin Water Treatment Facility Upgrade  
Re: COR # 12

Low Lift Pump Efficiency Requirement per attached.

Zimmer & Francescon, Inc	(2,700.00)
OHP	(135.00)
General Liability Insurance	(14.06)
Bond	(41.88)
<b>Total</b>	<b>(\$ 2,890.94)</b>

**Approved By:**

Tom Shedek  
Project Manager - Tricon Construction

2/28/2026  
Date

Clint Wiene - MSA Professional Services Inc

Date

City of Tiffin

Date

## Tom Shedek

---

**From:** Clint Wiene <CWienen@msa-ps.com>  
**Sent:** Wednesday, February 25, 2026 4:21 PM  
**To:** Tom Shedek; Gary Ganoe  
**Cc:** ZFAndrew@msn.com  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Tom,

Yes, I am good with this. Please send over the COR at your convenience.

Gary and Andrew,

I appreciate your cooperation to resolve this issue!

Thanks,



**Clint Wiene, PE** | Senior Project Engineer

MSA Professional Services, Inc.

100% Employee Owned

+1 (563) 584-2897



---

**From:** Tom Shedek <tomshedek@triconcg.com>  
**Sent:** Wednesday, February 25, 2026 3:09 PM  
**To:** Gary Ganoe <garyg@zfpump.com>; Clint Wiene <CWienen@msa-ps.com>  
**Cc:** ZFAndrew@msn.com  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Clint, If you're good with this I will send over a COR for the deduct to be added to the next CO.

Tom

**Tom Shedek, PMP** | Project Manager

**TRICON CONSTRUCTION GROUP**

C: 913.238.6689

[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)

---

**From:** Gary Ganoe <garyg@zfpump.com>  
**Sent:** Wednesday, February 25, 2026 2:16 PM  
**To:** Tom Shedek <tomshedek@triconcg.com>; [CWienen@msa-ps.com](mailto:CWienen@msa-ps.com)  
**Cc:** [ZFAndrew@msn.com](mailto:ZFAndrew@msn.com)  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Tom & Clint,

Per this exchange, we agree to issue a credit of \$2,700.00.



---

**From:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Sent:** Wednesday, February 25, 2026 1:15 PM  
**To:** Gary Ganoe <[garyg@zfpump.com](mailto:garyg@zfpump.com)>  
**Subject:** FW: Tiffin WTP Low Lift Pumps - 0915659

Gary,

Clint's response is below. Let me know if you agree with his math and are in agreement with his deduct.

Tom

**Tom Shedek, PMP** | Project Manager  
**TRICON CONSTRUCTION GROUP**  
C: 913.238.6689  
[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)

---

**From:** Clint Wiene <[CWienen@msa-ps.com](mailto:CWienen@msa-ps.com)>  
**Sent:** Wednesday, February 25, 2026 12:40 PM  
**To:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Tom,

I am in general agreement with Gary's logic, but I don't agree with the math behind it.

SDs indicates 7.6-hp at the duty point. Test results indicate 8.1-hp at the duty point. Therefore difference = 0.5-hp

- 0.5 hp x 760 watts/hp divided by 0.917 motor efficiency = 414 watts/hr
- A pump will need to run approximately 15 hrs/day each day to meet demand
- Most utilities are charging \$0.16-0.20 per kwh. I assume they get a discounted rate b/c of there usage so I would assume they pay around \$0.12 per kwh.

414/1000 kw x 5,475hrs x \$0.12 kwh ~ \$270 per year

\$270 x 10 years = \$2,700



**Clint Wiene, PE** | Senior Project Engineer

MSA Professional Services, Inc.

100% Employee Owned

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---

**From:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Sent:** Wednesday, February 25, 2026 10:41 AM  
**To:** Clint Wiene <[CWiene@msa-ps.com](mailto:CWiene@msa-ps.com)>  
**Subject:** FW: Tiffin WTP Low Lift Pumps - 0915659

Clint,

Let me know your thoughts on this as a credit that Gary is proposing.

Tom

**Tom Shedek, PMP** | Project Manager  
**TRICON CONSTRUCTION GROUP**  
C: 913.238.6689  
[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)

---

**From:** Gary Ganoe <[garyg@zfpump.com](mailto:garyg@zfpump.com)>  
**Sent:** Wednesday, February 25, 2026 10:06 AM  
**To:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Cc:** Andy Knapp <[andyknapp@triconcg.com](mailto:andyknapp@triconcg.com)>; Andrew Larson <[zfandrew@msn.com](mailto:zfandrew@msn.com)>; [CWiene@msa-ps.com](mailto:CWiene@msa-ps.com)  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Tom,

Technically, the low lift pumps meet Hydraulic Institute Grade 2B. However, Clint is correct that there is a 4% difference in performance between the certified performance curve vs. the test curve.

We are proposing to make up the difference in operating energy costs. Assuming 1000 hours run time per year per pump @ \$0.06 per KWH.

8.1 BHP @ design point x 0.04 = 0.324 BHP  
0.324 BHP x .763 divided by 91.7% motor efficiency = .27 KW  
.27 KW x \$0.06/KWH x 2000 hours of operation = \$32.40 per year  
\$32.40 per year x 10 years = \$324.00

We are proposing a \$324.00 credit.

Advise if this seems reasonable.



**Gary Ganoë**  
Zimmer & Francescon, Inc.  
(800) 621-1118 Work  
(563) 940-8550 Mobile  
[garyg@zfpump.com](mailto:garyg@zfpump.com)  
6200 65th Avenue  
Moline, Illinois 61265  
[www.zimmerfrancescon.com](http://www.zimmerfrancescon.com)

---

**From:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Sent:** Tuesday, February 24, 2026 4:28 PM  
**To:** Gary Ganoë <[garyg@zfpump.com](mailto:garyg@zfpump.com)>  
**Cc:** Andy Knapp <[andyknapp@triconcg.com](mailto:andyknapp@triconcg.com)>; Andrew Larson <[zfandrew@msn.com](mailto:zfandrew@msn.com)>  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Gary,

I have to get the monthly pay app in to Clint. Is there a value on the two LL pump motors that you can provide that I can deduct from the total \$115,300 amount just to get this pay app sent in?

Tom

**Tom Shedek, PMP** | Project Manager  
**TRICON CONSTRUCTION GROUP**  
C: 913.238.6689  
[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)

---

**From:** Gary Ganoë <[garyg@zfpump.com](mailto:garyg@zfpump.com)>  
**Sent:** Tuesday, February 24, 2026 9:53 AM  
**To:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Cc:** Andy Knapp <[andyknapp@triconcg.com](mailto:andyknapp@triconcg.com)>; Andrew Larson <[zfandrew@msn.com](mailto:zfandrew@msn.com)>  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Tom,

I need to discuss this with Andrew. Unfortunately, he's out of the office today. I'll get back to you tomorrow.



**Gary Ganoë**  
Zimmer & Francescon, Inc.  
(800) 621-1118 Work  
(563) 940-8550 Mobile  
[garyg@zfpump.com](mailto:garyg@zfpump.com)  
6200 65th Avenue  
Moline, Illinois 61265  
[www.zimmerfrancescon.com](http://www.zimmerfrancescon.com)

---

**From:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Sent:** Tuesday, February 24, 2026 7:07 AM  
**To:** Gary Ganoe <[garyg@zfpump.com](mailto:garyg@zfpump.com)>  
**Cc:** Andy Knapp <[andyknapp@triconcg.com](mailto:andyknapp@triconcg.com)>; Andrew Larson <[zfandrew@msn.com](mailto:zfandrew@msn.com)>  
**Subject:** FW: Tiffin WTP Low Lift Pumps - 0915659  
**Importance:** High

Gary,

Please call me on this this morning. I was not aware of these discussions between you and MSA prior to the motors shipping. See email below from Clint. We need to resolve this.

Tom

**Tom Shedek, PMP** | Project Manager  
**TRICON CONSTRUCTION GROUP**  
C: 913.238.6689  
[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)

---

**From:** Clint Wienen <[CWienen@msa-ps.com](mailto:CWienen@msa-ps.com)>  
**Sent:** Monday, February 23, 2026 3:20 PM  
**To:** Tom Shedek <[tomshedek@triconcg.com](mailto:tomshedek@triconcg.com)>  
**Subject:** FW: Tiffin WTP Low Lift Pumps - 0915659

Tom,

See correspondence below and attachment. The reason the shop drawings were not returned is b/c the low lift pumps did not meet the specified efficiency requirements. The shop drawings indicated the pumps were 76% efficient at the duty point. When they ran the pump tests, the efficiency was 72%. I asked for an explanation which Z&F provided but that fact remains the pumps do not meet the specification.

### 2.03 PERFORMANCE REQUIREMENTS

- A. The pump(s) shall be designed for continuous operation and may be operated continuously under norm service within the A.O.R.
- B. The pumps shall be manufactured by Fairbanks Nijhuis or approved equal.
- C. **LOW LIFT PUMP OPERATION CRITERIA**

TAG	Flow (GPM)	TDH (ft.)	Max. Pump Speed (RPM)	HI grade 2B efficiency	Max Motor HP NOL
LLP1	390	55	1800	75	7.5
LLP2	390	55	1800	75	7.5

Based on the pay app., it appears that the pumps have already been delivered to your shop. Please discuss with Z&F to see if they are willing to provide a credit for acceptance.

Thanks,



**Clint Wiene, PE** | Senior Project Engineer

MSA Professional Services, Inc.

100% Employee Owned

+1 (563) 584-2897



---

**From:** Nead, Eric <[eric.nead@pentair.com](mailto:eric.nead@pentair.com)>  
**Sent:** Monday, February 9, 2026 11:43 AM  
**To:** Gary Ganoe <[garyg@zfpump.com](mailto:garyg@zfpump.com)>; Clint Wiene <[CWiene@msa-ps.com](mailto:CWiene@msa-ps.com)>  
**Cc:** Lyons, Douglas <[Douglas.Lyons@Pentair.com](mailto:Douglas.Lyons@Pentair.com)>; [ZFAndrew@msn.com](mailto:ZFAndrew@msn.com)  
**Subject:** RE: Tiffin WTP Low Lift Pumps - 0915659

Gary,

In addition to what you stated below, Hydraulic Institute has an exception on efficiency with pump power input of 10kw (13hp) or less. See attached.

Thanks,

**Eric Nead**

Direct +1 913.748.4147

Mobile +1 913.291.9386

Confidentiality Note: This email may contain confidential information intended for the use of the addressees named above. If you are not the intended recipient of this email, you are hereby notified that you must not disseminate, copy or take any action in respect of any information contained in it. If you have received this email in error, please notify the sender immediately by email and immediately destroy this email and its attachments.

---

**From:** Gary Ganoe <[garyg@zfpump.com](mailto:garyg@zfpump.com)>  
**Sent:** Tuesday, February 3, 2026 11:30 AM  
**To:** Clint Wiene <[CWiene@msa-ps.com](mailto:CWiene@msa-ps.com)>  
**Cc:** Nead, Eric <[eric.nead@pentair.com](mailto:eric.nead@pentair.com)>; Lyons, Douglas <[douglas.lyons@pentair.com](mailto:douglas.lyons@pentair.com)>; [ZFAndrew@msn.com](mailto:ZFAndrew@msn.com)  
**Subject:** RE: Tiffin WTP Low Lift Pumps

Clint,

Andrew Larson provided part of the explanation:

***Testing is done with TEST motors unless specifically called out with JOB motor.***

***The test motors have known efficiency and power factor. Some refer to them as Calibrated motors.***

***Submittals are generally calculated efficiency. Tend to be per a 2B grade.***

***If a specific efficiency is called out to a specific Hydraulic Institute Grade it will be noted on the curve. Quality control will evaluate per the noted call outs.***

***What I do see is the submitted pump is Non Overloading 10HP.***

**The pump is built with cast bowls and cast impellers. They have imperfections which will affect the efficiency.**

**This is part of why there are numerous grades. The other thing is as one trims the impeller the efficiency decreases.**

I will have to take responsibility for part of this problem. In reviewing my paperwork and email correspondence, I see that I did not convey the Grade 2B 75% efficiency requirement. Unless otherwise instructed, the factory tests for flow and head.

**However**, this does not explain why the performance testing came in 4% lower in efficiency in comparison to the factory certified curve in their submittal.

I'm copying the Pentair personnel for their comments on this.



**Gary Ganoe**  
Zimmer & Francescon, Inc.  
(800) 621-1118 Work  
(563) 940-8550 Mobile  
[garyg@zfpump.com](mailto:garyg@zfpump.com)  
6200 65th Avenue  
Moline, Illinois 61265  
[www.zimmerfrancescon.com](http://www.zimmerfrancescon.com)

---

**From:** Clint Wiene <[CWiene@msa-ps.com](mailto:CWiene@msa-ps.com)>

**Sent:** Monday, February 2, 2026 12:05 PM

**To:** Gary Ganoe <[garyg@zfpump.com](mailto:garyg@zfpump.com)>

**Subject:** Tiffin WTP Low Lift Pumps

Hi Gary,

Just wondering if FBs has an explanation of why the efficiency is approximately 4% lower for the performance tests compared to the SD for the low lift pumps? Also don't they perform the hydraulic test with the actual motors that will be used? Test curves were with a 15-hp/1800 rpm motor. SDs indicated that 10-hp motors that are 1760 rpm will be provided.

Thanks,



**Clint Wiene, PE** | Senior Project Engineer

MSA Professional Services, Inc.

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