

Contract Name:

WELL 15 PFAS TREATMENT FACILITY

Date 5/16/2026

Change Order No. CO 7

Contract No. 9342

Project/MUNIS No. 14092

Change Order Project No. 7

Ald District 12

Change Order Description:

Stair modifications, fan coil unit adjustments, and 1-time media replacement with loan program funding authority. Please refer to other attached documentation.

Account Numbers for this Change Order:
14092-86-140

Contractor:

JOE DANIELS CONSTRUCTION CO INC
919 APPLGATE RD
MADISON WI 53713-3295

You are authorized and directed to make the following changes in this contract:

*Mark if negotiated (N) or bid (B) unit price

Item No.	Description	Est. Qty	Unit	Unit Price	N/B*	Total
1	Stair Modifications - Refer to Attached	1.00	LS	12,000.00	N	12,000.00
2	Fan Coil Unit Balacing and Pipe	1.00	LS	11,314.39	N	11,314.39
	Adjustment - Refer to Attached					0.00
3	Media Replacement - Refer to Attached	1.00	LS	228,717.92	N	228,717.92
4	Supply Line Install / Media Repl. Hose	1.00	LS	19,528.75	N	19,528.75
						0.00
						0.00

% of Original

Net Change Order	6.32%	271,561.06
The Original Contract Total		4,297,330.00
Sum of previous Change Orders	5.28%	226,807.70
The new Contract Sum including this Change Order will be	111.60%	4,795,698.76

This Contract is a:

	Completion Date
Original Contract Time/Completion Date	8/31/2025
Net Change in Contract Time by previous change orders	182
Contract Time/Completion Date prior to this change order	3/1/26
Additional day(s) as a result of this Change Order	213
Contract time/completion date as a result of this change order	9/30/26

Contractor's Acceptance

By _____
Title _____
Date _____

City's Approval (see reverse side for instructions)

Date _____

Construction Inspector _____
Construction Supervisor _____
Engineer _____
Board of Public Works _____

Contract paid to date \$ 4,410,000.00

ROUTING:

EN Admin _____
Greg Fries _____
Chase O'Brien _____

City of Madison
Department of Public Works

Change Order to Public Works Contract Justification and Assessment

9342
WELL 15 PFAS TREATMENT FACILITY
Change Order No. 7

Type of Change Order (check all that apply):

<input type="checkbox"/>	Street	<input checked="" type="checkbox"/>	Water
<input type="checkbox"/>	Sewer-Sanitary	<input type="checkbox"/>	Electrical
<input type="checkbox"/>	Sewer-Storm	<input type="checkbox"/>	Parks
<input checked="" type="checkbox"/>	Facilities		

Change Order General Description (check all that apply):

<input type="checkbox"/>	Actual vs. Estimated Quantities differ.	<input type="checkbox"/>	Differing site conditions.
<input type="checkbox"/>	Missing Bid Item or Additional Bid Item needed.	<input type="checkbox"/>	Design did not adequately anticipate field conditions.
<input checked="" type="checkbox"/>	Field Decision (Expanded Scope).	<input type="checkbox"/>	Underground conflicts (utility revision)
<input type="checkbox"/>	Other:		

Time Extension

<input checked="" type="checkbox"/>	Yes (explanation):	<input type="checkbox"/>	No
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Expanding the contract terms to fit within the schedule for the media replacement work.

Inspector Comment: Description of Change Order and Suggestions to Avoid Future Change Orders of This Type:

Designer Comment: Suggestions to Avoid Future Change Orders of This Type:

Proposed changes to the SDWLP SFY 2027 Intended Use Plan will increase principal forgiveness to 70% of approved EC project costs. In addition, this change will be applied retroactively to previously funded projects such as this one.

Contract terms under the Safe Drinking Water Loan Program will allow funding of a 1-time replacement of the filter media since it is part of the startup calibration and testing needed to achieve the goal of the project.

SUBMITTED BY

DATE

REVIEWED BY

DATE

DESIGNER

DATE

DESIGNER'S SECTION HEAD

DATE

CITY ENGINEER

Contract 9342 - CHANGE ORDER REQUEST #7 - WELL 15 PFAS Treatment Facility

Contract / Project #:	Contract No. 9342 / Project No. 14092-86-140	Project Name:	WELL 15 PFAS TREATMENT
Owner:	Madison Water Utility	Contractor:	Joe Daniels Construction Co
Engineering & Constr. Admin:	AECOM, Inc.	Contract extension	YES
Date:	6/15/2026		

SECTION A - SUMMARY OF THE CHANGE ORDER REQUEST

Total GC Self Performing Work:	\$ -
Total Sub-Contractor Work:	\$ 271,561.07
Grand Total for this Change Order Request:	\$ 271,561.07

SECTION B - GENERAL CONTRACTOR SELF PERFORMED WORK

O & P Markup Percentage: 15%

15%

#	Request Name	Labor Cost	Material Cost	Large Tool & Equip. Cost	Subtotal	O & P Markup	Total GC Self-Perform
				\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -

Subtotal of all GC: \$ - \$ -

SECTION C - SUB-CONTRACTOR SELF PERFORMED WORK

O & P Markup Percentage: 15%

15%

5%

#	Sub-Contractor Company Name	Labor Cost	Material Cost	Subtotal	O & P Markup	Total SC Request	GC Supervision	Total SC Perform
1	Endres Manufacturing Co.	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 1,500.00	\$ 11,500.00	\$ 500.00	\$ 12,000.00
2	J.F. Ahern Co.	\$ 2,313.93	\$ 7,114.73	\$ 9,428.66	\$ 1,414.30	\$ 10,842.96	\$ 471.43	\$ 11,314.39
3	J.F. Ahern Co.	\$ 4,294.27	\$ 186,304.00	\$ 190,598.27	\$ 28,589.74	\$ 219,188.01	\$ 9,529.91	\$ 228,717.92
4	J.F. Ahern Co.	\$ 4,335.42	\$ 11,938.54	\$ 16,273.96	\$ 2,441.09	\$ 18,715.05	\$ 813.70	\$ 19,528.75
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -

Subtotal of Sub-Contractors: \$260,246.02 \$11,315.04 \$271,561.07

GC Supervision Markup on Subtotal Percentage: 5%

Change Order Request



Project name:

PFAS Well #15

Requested by:

Pete Holmgren

Date:

2/20/2026

Request name:

Aluminum Stair Revisions

Request number:

FO# 13

Change description:

Perform modifications and realignment of the installed aluminum stair between the PFAS Removal room and Well Pump room as shown on the attached revised drawing 10-A-02 Rev 3, dated 8/19/25. Modification to and installation of modified stair per Specification Section 05 51 20 Aluminum Stairs and Ladders

Change reason:

Proposed action:

Associated cost:

Refer to cover form

~~\$10,875.00~~

Approved by:

Date:

02/20/26

Project Name:		PFAS Well #15			FO# 13	
Material	Quantity	UOM	Material Type	Unit Price	Total	Credit
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
Sales Tax				5.5%	\$0.00	
Material Cost					\$0.00	
GC OH&Profit				15%	\$0.00	
Material Total					\$0.00	

Labor	Total	Crew Rate	Hours	Description	Crew Size	Labor Type	Total MH
	\$0.00	\$0.00				-	0
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
\$0.00		Cost					
\$0.00		15%	GC OH&Profit				
\$0.00		Total					

Tools & Equipment	Name	Hours	Rate	Cost	Total Eq. Hours
			\$0.00	\$0.00	0
			\$0.00	\$0.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
	Cost			\$0.00	
GC OH&Profit			\$0.00	15%	
Total			\$0.00		

Subcontractors	Name	Trade/Specialty	Cost
	Endres	Steel Manufacturer	\$10,000.00
Cost		\$10,000.00	
Subcontractor Markup		\$750.00	7.50%
Total		\$10,750.00	

Summary	Cost Summary		Totals Summary	
	Material	\$0.00	Cost	\$10,000.00
	Labor	\$0.00	Sub Markup	\$750.00 7.5%
	Equipment	\$0.00	GC OH&P	\$0.00 15%
	Subcontractors	\$10,000.00	Bond	\$125.00 1.25%
	Total Cost:	\$10,000.00	Total CO:	\$10,875.00
			\$10,875.00	

Refer to cover form



Endres Mfg. Co- Waunakee
802 S. Century Ave
Waunakee, WI 53597
Phone: 608-849-4143
Fax: 608-849-7903

Date : 2/12/2026
Page 1 of 1
CO #: 3
Job #: 3A24130
PFAS Well #15

Job Location: Madison

Change Order Request

To: Jake Cates
JOE DANIELS CONST. CO. INC.
919 APPLGATE ROAD
MADISON, WI 53713
Phone: 608-271-4800
Fax: 608-271-4570

Aluminum Stair Remake

Change Requested By:

Sent Via: E-mail

Description of Change:

- (1) 4 Tread Alum Stair
- (2) 2-Pipe HR
- (1) Top Tread Angled Grating Cutout

The change will cause an increase of \$10,000.00 to the contract amount.

A signature below indicates acceptance of all changes shown herein. Any work associated with this change will begin upon receipt of a signed copy of this C.O. in our office. Please respond by 2/19/2026.

If the requested response time is not met, the project may be delayed.

Accepted By

Endres Mfg. Co- Waunakee

Change Order Request



Project name:

PFAS Well #15

Requested by:

Pete Holmgren

Date:

4/7/2026

Request name:

FO#17 - FCU Updates

Request number:

17

Change description:

The field order is associated with items noted during the test and balance inspection and includes revisions to the water recycle line termination and update to the existing FCU to allow that one to also be tested and balanced.

Change reason:

Proposed action:

Associated cost:

Refer to cover form

~~\$11,625.00~~

Approved by:

Date:

4/7/2026

Project Name:		PFAS Well #15			FO #:	17
Material	Quantity	UOM	Material Type	Unit Price	Total	Credit
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
				\$0	\$0.00	
Sales Tax				5.5%	\$0.00	
Material Cost					\$0.00	
GC OH&Profit				15%	\$0.00	
Material Total					\$0.00	

Labor	Total	Crew Rate	Hours	Description	Crew Size	Labor Type	Total MH
	\$0.00	\$0.00				-	0
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
	\$0.00	\$0.00				-	
\$0.00			Cost				
\$0.00	15%		GC OH&Profit				
\$0.00			Total				

Tools & Equipment	Name	Hours	Rate	Cost	Total Eq. Hours
			\$0.00	\$0.00	0
			\$0.00	\$0.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
			Cost	\$0.00	
			GC OH&Profit	\$0.00	15%
			Total	\$0.00	

Subcontractors	Name	Trade/Specialty	Cost
	JF Ahern	Mechanical	\$10,688.96
		Cost	\$10,688.96
		Subcontractor Markup	\$801.67 7.50%
		Total	\$11,490.63

Summary	Cost Summary		Totals Summary	
	Material	\$0.00	Cost	\$10,688.96
	Labor	\$0.00	Sub Markup	\$801.67 7.5%
	Equipment	\$0.00	GC OH&P	\$0.00 15%
	Subcontractors	\$10,688.96	Bond	\$133.61 1.25%
	Total Cost:	\$10,688.96	Total CO:	\$11,624.24
		\$11,625.00		

Refer to cover form



855 Morris Street | P.O. Box 1316
Fond du Lac, WI 54936-1316
main 920.921.9020 | fax 920.929.8825
www.jfahern.com

2/16/2026
608-333-0121

Mr. Jake Cates
Joe Daniels Construction
919 Applegate Rd.
Madison, WI 53713

**RE: Madison Well #15
J. F. Ahern Co. Job No. 7548
Customer Contract No. 9342
JFACO19 FO 17 FCU Piping Mods**

Dear Jake,

This change order is for the labor, material & equipment to reroute the 1-1/2" CWR termination at GAC Tank 2 to the pipe loop as shown on the attached revised Sheet 10-H-01. The new line will be insulated. Additionally, one (1) balancing valve will be installed at the discharge of each FCU to allow for balancing. Three (3) existing ball valves within the existing CWS/R line will be replaced to ensure proper isolation & balancing of the system. The proposal does not include any coatings or patching.

Respond by: 2/20/26

Refer to cover form

Ten Thousand Six Hudnred Eighty Eight and 96/100 Dollars.....~~\$10,688.96~~

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal.

At the present time, we cannot assess or evaluate the overall impact of the changed work on our original scope of work.

We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and / or acceleration and extended warranties.

Sincerely,

J. F. Ahern Co.

Adam Landen

Adam Landen
Project Manager
WI Major Construction Division

Enclosures
File:



Change Order Summary

Project: Madison Well #15	
Project #: 7548	
Proposal Date: 2/16/2026	
Change Order #: 19	
Revision: 0	
Description of Work: FO17 FCU Piping Mods	
Total CO Amount:	10,688.96

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
Subtotal Material	Lump Sum	1.00	Lump Sum	1,767.93		1,767.93
Delivery Costs	Lump Sum	1.00	Lump Sum	76.00		76.00
Sales Tax	Percent	1,843.93			0.00%	-
TOTAL M - Material						1,843.93
Supervision	Unit Price	4.00	Hour	135.68		542.72
Foreman	Unit Price	8.00	Hour	135.68		1,085.44
Journeyman	Unit Price	8.00	Hour	116.88		935.04
HVAC Service Foreman	Unit Price	13.00	Hour	135.68		1,763.84
HVAC Service Journeyman	Unit Price	12.00	Hour	116.88		1,402.56
Rigging/Consumables	Percent	5,729.60			5.50%	315.13
TOTAL L - Labor						6,044.73
L&C Insulation	Lump Sum	1.00	Lump Sum	940.00		940.00
ESA	Lump Sum	1.00	Lump Sum	600.00		600.00
Subcontractor Handling Fee	Percent	1,540.00				-
TOTAL S - Subcontract						1,540.00
TOTAL E - Equipment						-
TOTAL G - General Conditions						-
TOTAL P - Project Management						-
Overhead & Profit - Labor	Percent	6,044.73			15.00%	906.71
Overhead & Profit - Subcontractor	Percent	1,540.00			5.00%	77.00
TOTAL O - Overhead & Profit						1,260.30
TOTAL B - Bond & Insurance						-
Grand Total:						10,688.96

Markup applied on cover form

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal.

At the present time, we cannot assess or evaluate the overall impact of the changed work on our original scope of work.

We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and / or acceleration and extended warranties.

BALANCE VALVES Lead-Free* Circuit Setter® Plus

Description

The Circuit Setter Plus and Circuit Setter Plus RF provide the perfect balance of adjustability and efficiency for potable water and HVAC systems. They are precisely calibrated for use as a presettable balance valve, variable orifice flow meter and positive shut-off service valve. They are also designed for optimal system efficiency and water conservation. The Circuit Setter Plus and Circuit Setter Plus RF can provide the perfect balancing solutions for your potable water and HVAC system.

Save time, energy and water with the lead-free Circuit Setter Plus and Circuit Setter Plus RF.

- Designed for all plumbing and HVAC systems.
- Provides equal flow throughout all circuits to conserve water and optimize system efficiency.
- Calibrated accurate flow control and measurement.
- Bi-directional design allows any installation configuration.
- Externally adjustable manual balance valve for easy adjustment.
- Reduces pump energy requirements.
- Meets or exceeds stringent codes for potable water.
- Includes memory stop indicator.
- Provides drain option.
- Provides positive shut off and isolation.
- Includes pressure/temperature ports.

Construction

Body: Brass ASTM B283-C69300*
 Ball: 304 Stainless Steel
 Seat Rings: Glass and Carbon filled TFE
 Readout Valves: Brass with EPT check valves
 Stem "O" Ring: EPDM

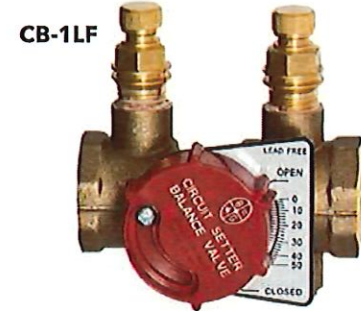
Maximum Working Pressure

NPT Models: 400 PSIG (2758 kPa)
 Sweat Models: See table below

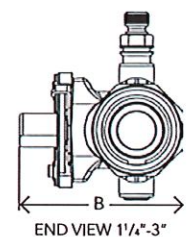
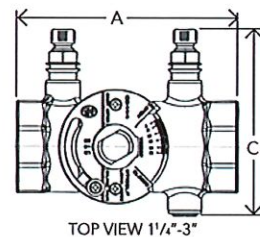
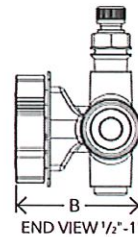
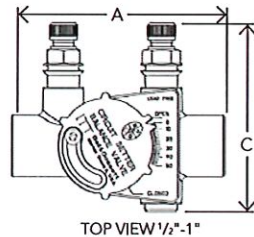
Maximum Operating Temperature

-4°F (-20°C) to 250°F (121°C)

* Contains less than 0.25% lead content by weight on wetted surfaces.
 CSA Certified: AB1953; Vermont S152; Maryland House Bill 372
 (Statute 12-605). ANSI/NSF-61 Annex G Compliant.



TYPE SOLDER	MAXIMUM PRESSURE LIMITATIONS FOR 1/2" - 1" WITH SOLDER CONNECTIONS	
	PRESSURE PSI KPA	TEMP °F (°C)
95-5 Tin-Antimony	300 (2068)	200 (93)
	250 (1724)	225 (107)
	200 (1379)	250 (121)



Specifications

MODEL NUMBER	PART NUMBER	SIZE	CONNECTION TYPE	DIMENSIONS** in Inches (mm)			WEIGHT in lbs. (kg)
				A	B	C	
RF-1/2S LF	117410LF	1/2"	Sweat	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	0.6 (0.27)
RF-3/4S LF	117411LF	3/4"	Sweat	3.51 (89.2)	2.05 (52.1)	3.10 (78.7)	0.75 (0.34)
CB-1/2S LF	117412LF	1/2"	Sweat	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	1 (0.45)
CB-3/4S LF	117413LF	3/4"	Sweat	3.51 (89.1)	2.05 (52.1)	3.10 (78.7)	1.25 (0.6)
CB-1S LF	117401LF	1"	Sweat	4.29 (109)	2.33 (59.2)	3.33 (84.6)	2 (0.91)
CB-1 1/4S LF	117402LF	1 1/4"	Sweat	4.91 (124.7)	3.08 (78.2)	3.69 (93.7)	3.5 (1.6)
CB-1 1/2S LF	117403LF	1 1/2"	Sweat	5.21 (132.3)	3.27 (83)	3.95 (100.3)	3.8 (1.7)
CB-2S LF	117404LF	2"	Sweat	6.31 (160.3)	3.83 (97.3)	4.44 (112.8)	6.2 (2.8)
CB-1/2 LF	117414LF	1/2"	NPT	2.94 (74.7)	1.98 (50.3)	3.02 (76.7)	1.25 (0.6)
CB-3/4 LF	117415LF	3/4"	NPT	3.06 (77.7)	2.17 (55.1)	3.12 (79.2)	1.5 (0.7)
CB-1 LF	117416LF	1"	NPT	3.81 (96.8)	2.47 (62.7)	3.42 (86.9)	2 (0.9)
CB-1 1/4 LF	117103LF	1 1/4"	NPT	4.41 (112)	3.19 (81)	3.69 (93.7)	3.5 (1.6)
CB-1 1/2 LF	117104LF	1 1/2"	NPT	4.42 (112.3)	3.37 (85.6)	3.95 (100.3)	3.8 (1.7)
CB-2 LF	117105LF	2"	NPT	5.13 (130.3)	3.98 (101.1)	4.44 (112.8)	6.2 (2.8)
CB-2 1/2 LF	117106LF	2 1/2"	NPT	6.00 (152.4)	4.51 (114.6)	4.83 (122.7)	9 (4.1)
CB-3 LF	117107LF	3"	NPT	6.50 (165.1)	5.12 (130.0)	5.44 (138.2)	12 (5.4)

** All dimensions +/-0.125 (3.2 mm) tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified.

L & C INSULATION INC.

La Crosse / Eau Claire / Wausau / Appleton
3120 Airport Rd., P.O. Box 2412
La Crosse, WI 54602-2412
Phone 608-781-9071 Fax 608-781-9031
FO 17

Attention: Adam Landen

Project: Madison Well 15

Section: Plumbing Insulation

Date: February 5, 2026

Price: Nine hundred forty and 00/100 dollars.

\$ 940.00

Notes:

This quote includes:

- 1. Insulation of approximately 20' of 2" cold water lines.**
 - a. Includes a colored PVC jacket.**
 - b. Includes all end caps, and other fittings from demo of existing line.**

***Bid does not include price to endorse additional entities under our insurance policy.**

***All addenda acknowledged**

***Price does not include prevailing wage pricing**

Insulation Contractor *Zach Brueggeman*

Zach Brueggeman, Estimator L&C

Proposal

PROJECT:

Address:
City, State:
Plan Version: FO-17
Plans Dated: 2/2/2026
Specification: NONE

MADISON WELL #15
3900 E Washington Ave
Madison, WI

PROPOSAL #
02-04-26-01

Proposal Date:
2/4/2026

To Test, Adjust, and Balance the above referenced project, we are pleased to propose a price(s) of:

BASE BID
 \$600.00

Please check all that apply.

ESA will need the GPM's for the circuit setters.

Terms & Conditions:

Quote is good for 90 days from proposal date.
Prices are for normal business hours, unless noted. Site conditions/scheduling requiring premium hours may be billed accordingly.
A trip charge may be applied for sites that are not ready for balancing as scheduled/coordinated, due to others.
Control contractor will provide the capability to access TAB set points, or provide a technician.
Equipment sheaves will be adjusted to the limit of their capacity.
The work will be performed to the current NEBB Procedural Standards (2019 - Ninth Edition).

Items NOT included in this quote:
New sheaves, belts, & labor required to meet design airflow, unless noted in the TAB specification or plans.
Stairwell or elevator shaft pressure testing.
Lifts, scaffolding, or other specialized equipment for accessing elevated equipment.
Sound, Vibration, or Duct Leakage Testing, unless specifically noted as included.
Thermal Performance Testing.

PLEASE COMPLETE AND RETURN THE FOLLOWING UPON ACCEPTANCE OF THIS PROPOSAL AS A CONTRACT REQUIREMENT FOR INSURANCE PURPOSES.

COMPANY: _____

BY: _____

TITLE: _____

DATE: _____

P.O. # _____



THANK YOU FOR YOUR BUSINESS,

BY: _____
Chuck Schoechert

TITLE: President & General Manager

DATE: _____

Field Order

No. 17

Date of Issuance: February 2, 2026 Effective Date: February 2, 2026

Project: Unit Well 15 PFAS Treatment Facility	Owner: City of Madison Water Utility	Owner's Contract No.: 9342 / MUNIS No. 14092-86-140
Contract: Unit Well 15 PFAS Treatment Facility		Date of Contract: 2024 March 05
Contractor: Joe Daniels Construction Co., Inc.		Engineer's Project No.: 60686092 / 60724663

Attention:


You are hereby directed to promptly execute this Field Order issued in accordance with General Conditions Paragraph 9.05A., for minor changes in the Work without changes in Contract Price or Contract Times. If you consider that a change in Contract Price or Contract Times is required, please notify the Engineer immediately and before proceeding with this Work.

Reference:		
	(Specification Section(s))	(Drawing(s) / Detail(s))
	NA	NA

Description:

1. Add balance valve to water supply for FCU-1 (existing) and add to test and balance scope for project to water test for FCU-1 and FCU-2.
2. FCU water recycle pipe move discharge connection at pipe prior to GAC Tank #2 and discharge into effluent loop after IX Tank #2. Provide new tap. Cap existing tap.

Attachments:

		Engineer: 
Receipt Acknowledged by (Contractor):		Date:

Copy to Owner

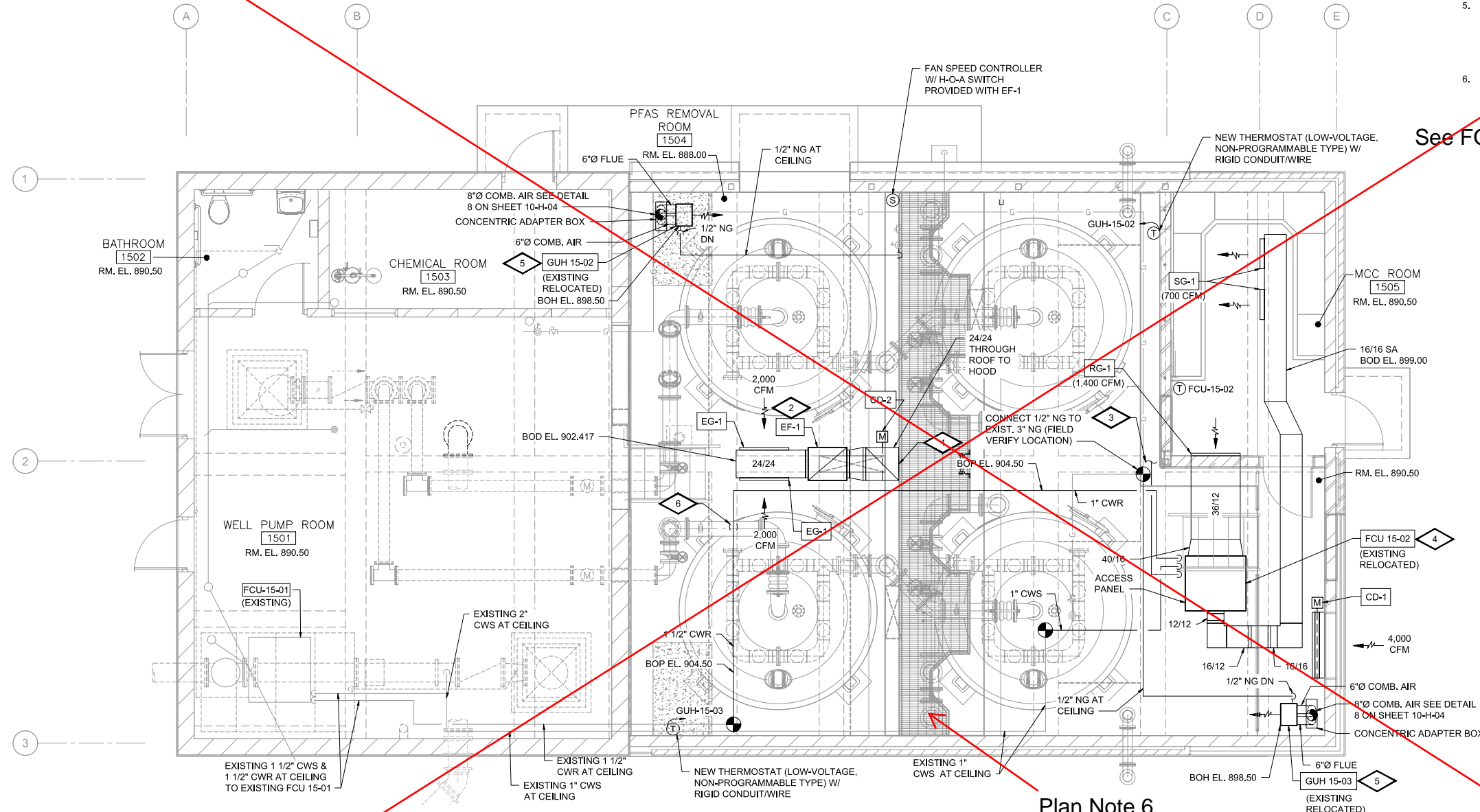
GENERAL NOTES

1. VENTILATION SYSTEM INSIDE PFAS REMOVAL ROOM SHALL BE OPERATED MANUALLY THROUGH MANUFACTURER FURNISHED SPEED CONTROLLER AND H-O-A SWITCH. FAN TO OPERATE DURING PROCESS BACKWASH OPERATION.
2. DEHUMIDIFIERS LOCATED INSIDE PFAS REMOVAL ROOM SHALL BE DISABLED TO OPERATE WHEN VENTILATION SYSTEM (EF-1) IS OPERATING.

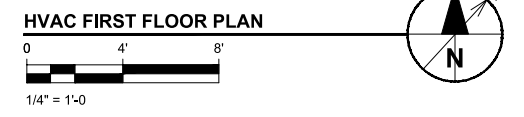
PLAN NOTES

1. PROVIDE DRIP PAN ELBOW AT BOTTOM OF DUCT RISER FROM ROOF. SEE DETAIL 1 ON SHEET 10-H-04.
2. CENTRIFUGAL INLINE EXHAUST FAN, BOTTOM OF FAN INSTALLED AT EL. 898.00, FAN SHALL BE INTERLOCKED WITH OA DAMPER (CD-1) AND EA DAMPER (CD-2).
3. ROUTE 1" CONDENSATE OVER TO 4" HUB DRAIN ABOVE. SEE SHEET 10-P-01 FOR CONTINUATION.
4. RELOCATE/INSTALL EXISTING 3-TON FAN COIL UNIT/HEAT PUMP (FCU-15-02) IN LOCATION SHOWN, BOTTOM OF UNIT INSTALLED AT EL. 898.67, PROVIDE NEW CONNECTING SUPPLY AND RETURN DUCTWORK, COOLING WATER SUPPLY AND RETURN PIPING, AND CONDENSATE DRAIN PIPE.
5. RELOCATE/INSTALL EXISTING 24 MBH GAS-FIRED UNIT HEATER (GUH-15-03) INCLUDING SEPARATED COMBUSTION EXHAUST STACK THROUGH ROOF. PROVIDE NEW CONNECTING GAS PIPING AND CLASS B VENTING AS REQUIRED. EXTEND CONTROL WIRE/RIGID CONDUIT TO NEW WALL MOUNTED THERMOSTAT.
6. 2" CWR PIPE TO TIE INTO 10" INFLUENT PIPE ENTERING GAC TANK FOR WATER SOURCE HEAT PUMPS (FCU-15-01 & FCU-15-02) AS APPROVED BY THE WI DNR FOR EXISTING CONDITIONS, PROVIDE 2" CHECK VALVE.

See FO17 for update to plan note 6



Plan Note 6 move here



ISSUE/REVISION		
1	12/22/23	ISSUE FOR BID
I/R	DATE	DESCRIPTION

KEY PLAN

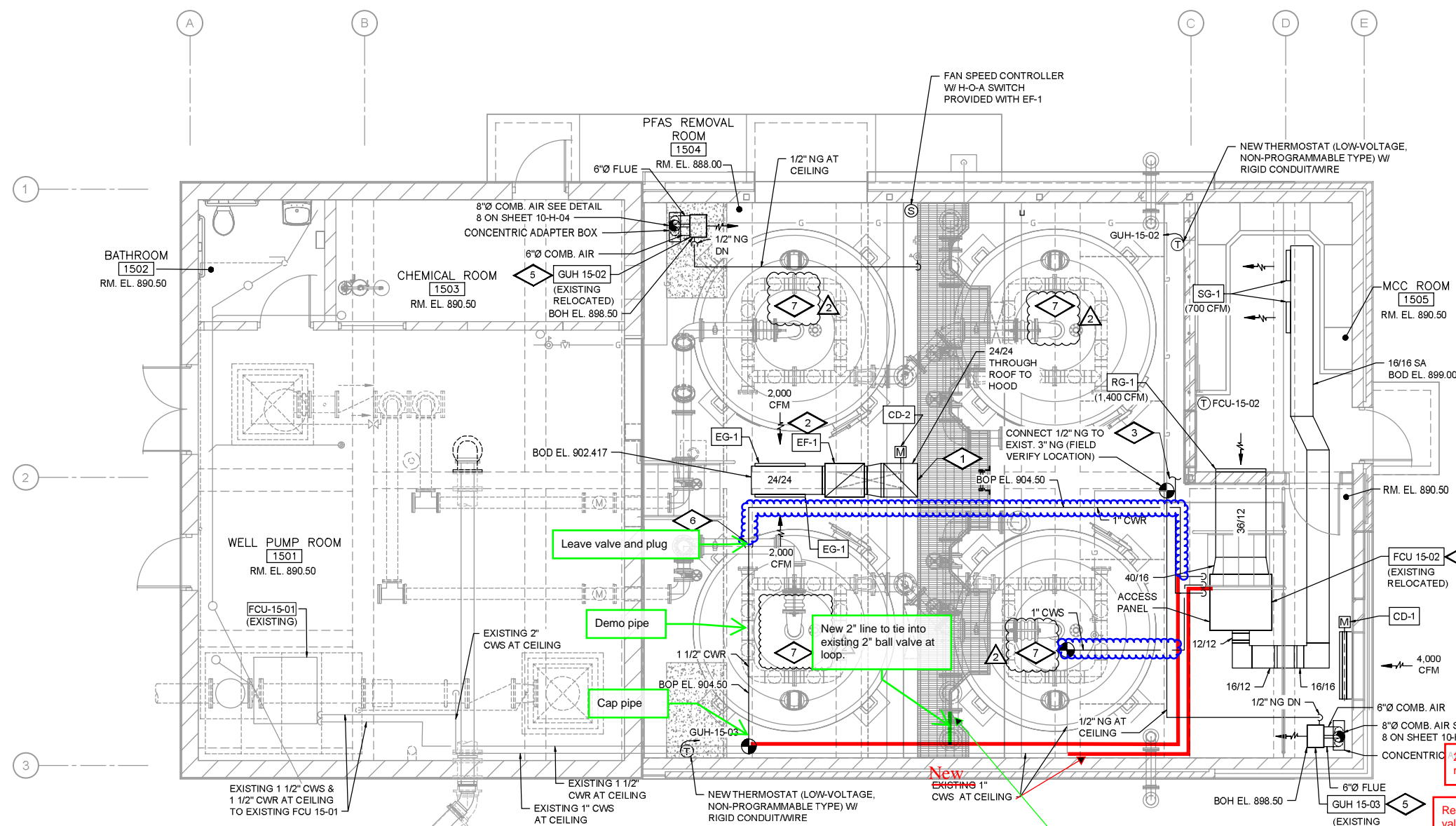
PROJECT NUMBER	60686092
SHEET TITLE	HVAC FIRST FLOOR PLAN
DWG NUMBER	10-H-01
SHT NUMBER	47 OF 55

GENERAL NOTES

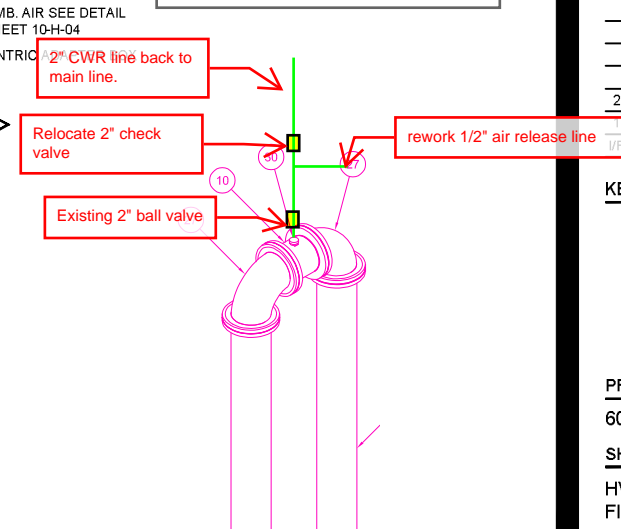
1. VENTILATION SYSTEM INSIDE PFAS REMOVAL ROOM SHALL BE OPERATED MANUALLY THROUGH MANUFACTURER FURNISHED SPEED CONTROLLER AND H-O-A SWITCH. FAN TO OPERATE DURING PROCESS BACKWASH OPERATION.
2. DEHUMIDIFIERS LOCATED INSIDE PFAS REMOVAL ROOM SHALL BE DISABLED TO OPERATE WHEN VENTILATION SYSTEM (EF-1) IS OPERATING.

PLAN NOTES

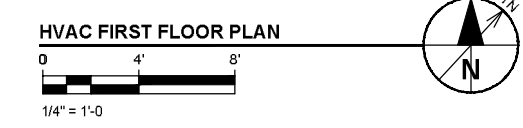
1. PROVIDE DRIP PAN ELBOW AT BOTTOM OF DUCT RISER FROM ROOF. SEE DETAIL 1 ON SHEET 10-H-04. See DETAIL 6 on sheet 10-H-04. (per Procure RFI 8004)
2. CENTRIFUGAL INLINE EXHAUST FAN. BOTTOM OF FAN INSTALLED AT EL. 898.00. FAN SHALL BE INTERLOCKED WITH OA DAMPER (CD-1) AND EA DAMPER (CD-2).
3. ROUTE 1" CONDENSATE OVER TO 4" HUB DRAIN ABOVE. SEE SHEET 10-P-01 FOR CONTINUATION.
4. RELOCATE/INSTALL EXISTING 3-TON FAN COIL UNIT/HEAT PUMP (FCU-15-02) IN LOCATION SHOWN. BOTTOM OF UNIT INSTALLED AT EL. 898.87. PROVIDE NEW CONNECTING SUPPLY AND RETURN DUCTWORK, COOLING WATER SUPPLY AND RETURN PIPING, AND CONDENSATE DRAIN PIPE.
5. RELOCATE/INSTALL EXISTING 24 MBH GAS-FIRED UNIT HEATER (GUH-15-03) INCLUDING SEPARATED COMBUSTION EXHAUST STACK THROUGH ROOF. PROVIDE NEW CONNECTING GAS PIPING AND CLASS B VENTING AS REQUIRED. EXTEND CONTROL WIRE/RIGID CONDUIT TO NEW WALL MOUNTED THERMOSTAT.
6. 2" CWR PIPE TO TIE INTO 10" INFLUENT PIPE ENTERING GAC TANK FOR WATER SOURCE HEAT PUMPS (FCU-15-01 & FCU-15-02) AS APPROVED BY THE WDNR FOR EXISTING CONDITIONS. PROVIDE 2" CHECK VALVE.
7. THE ENTIRE BUILDING IS SPRINKLED WITH A WET PIPE SYSTEM, ORDINARY HAZARD GROUP 1, IN ACCORDANCE WITH NFPA 13. A WISCONSIN LICENSED FIRE SUPPRESSION CONTRACTOR SHALL REVIEW THE EXISTING SPRINKLER PIPING AND SPRINKLER HEADS LAYOUT INSIDE THE PFAS REMOVAL ROOM 1504 AND INCLUDE PROVISIONS IN THE BASE BID TO MODIFY THE SPRINKLER PIPING AND SPRINKLER HEADS LAYOUT FOR RAISING THE ROOF AS SHOWN ON ARCHITECTURAL/STRUCTURAL DRAWINGS. REVISED SPRINKLER LAYOUT DRAWINGS AND/OR CALCULATIONS SHALL BE SEALED BY LICENSED FIRE SUPPRESSION CONTRACTOR AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.



Pipe Loop FCU Tie-In Detail



Plan Note 6 move here



ISSUE/REVISION

NO.	DATE	DESCRIPTION
2	1/29/24	FIRE PROTECTION MOD.
	12/22/23	ISSUE FOR BID
		DATE DESCRIPTION

KEY PLAN

PROJECT NUMBER

60686092

SHEET TITLE

HVAC FIRST FLOOR PLAN

DWG NUMBER SHT NUMBER

10-H-01 47 OF 55

ANS I D 22" x 34" FILENAME: C:\USERS\ARIMITI\PROJECTS\AECOM\60686092\MADISON UWTS PFAS - GENERAL\1000_CAD\20-SHEET\SH-01.DWG
 Last saved by: TERI.COMPTON(2024-01-29) Last Printed: 2024-01-31

Change Order Request



Project name:

PFAS Well #15

Requested by:

Pete Holmgren

Date:

1/21/2026

Request name:

Filter Tank Media Tariff Impact

Request number:

Change description:

This change order is to provide the media for the GAC and IX tanks. The supplier has experienced increased costs from bid time due to tariff escalation pricing impacts.

Change reason:

Proposed action:

Associated cost:

\$13,021.00

Approved by:

Date:

Project Name:		PFAS Well #15			CO #:		
Material	Quantity	UOM	Material Type	Unit Price	Total	Credit	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
					\$0	\$0.00	
Sales Tax				5.5%	\$0.00		
Material Cost					\$0.00		
GC OH&Profit				15%	\$0.00		
Material Total					\$0.00		

Labor	Total	Crew Rate	Hours	Description	Crew Size	Labor Type	Total MH	
	\$0.00	\$0.00					-	0
	\$0.00	\$0.00					-	
	\$0.00	\$0.00					-	
	\$0.00	\$0.00					-	
	\$0.00	\$0.00					-	
	\$0.00	\$0.00					-	
	\$0.00	\$0.00					-	
\$0.00				Cost				
\$0.00	15%			GC OH&Profit				
\$0.00				Total				

Tools & Equipment	Name	Hours	Rate	Cost	Total Eq. Hours	
				\$0.00	\$0.00	0
				\$0.00	\$0.00	
				\$0.00	\$0.00	
				\$0.00	\$0.00	
			Cost	\$0.00		
			GC OH&Profit	\$0.00	15%	
			Total	\$0.00		

Subcontractors	Name	Trade/Specialty	Cost
	JF Ahern	Mechanical	\$11,972.58
			Cost
		Subcontractor Markup	\$897.94 7.50%
		Total	\$12,870.52

Summary	Cost Summary		Totals Summary	
	Material	\$0.00	Cost	\$11,972.58
	Labor	\$0.00	Sub Markup	\$897.94 7.5%
	Equipment	\$0.00	GC OH&P	\$0.00 15%
	Subcontractors	\$11,972.58	Bond	\$149.66 1.25%
	Total Cost:	\$11,972.58	Total CO:	\$13,020.18
			\$13,021.00	



855 Morris Street | P.O. Box 1316
Fond du Lac, WI 54936-1316
main 920.921.9020 | fax 920.929.8825
www.jfahern.com

8/29/2025
608-333-0121

Mr. Jake Cates
Joe Daniels Construction
919 Applegate Rd.
Madison, WI 53713

**RE: Madison Well #15
J. F. Ahern Co. Job No. 7548
Customer Contract No. 9342
JFACO14 Filter Tank Media Tariff Impact**

Dear Jake,

This change order is to provide the media for the GAC and IX tanks. The supplier has experienced increased costs from bid time due to tariff escalation pricing impacts. This was an unforeseen cost in which the Contractor shall not be held responsible for covering as it was required for the project. The Contractor has omitted any overhead and profit as we're only seeking compensation for the increase increase price difference of the media that has already been provided and installed by a named supplier per the project specifications.

Respond by: 9/5/25

Eleven Thousand Nine Hundred Seventy Two and 58/100 Dollars.....\$11,972.58

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal.

At the present time, we cannot assess or evaluate the overall impact of the changed work on our original scope of work.

We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and / or acceleration and extended warranties.

Sincerely,

J. F. Ahern Co.

Adam Landen

Adam Landen
Project Manager
WI Major Construction Division

Enclosures
File:



Change Order Summary

Project: Madison Well #15 Project #: 7548 Proposal Date: 8/29/2025 Change Order #: 14 Revision: 0	
Description of Work: Filter Tank Media Tarrif Impact Pricing	
Total CO Amount:	11,972.58

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
Subtotal Material	Lump Sum	1.00	Lump Sum	11,972.58		11,972.58
Sales Tax	Percent	11,972.58			0.00%	-
TOTAL M - Material						11,972.58
TOTAL L - Labor						-
TOTAL S - Subcontract						-
TOTAL E - Equipment						-
TOTAL G - General Conditions						-
TOTAL P - Project Management						-
Overhead & Profit - Materials	Percent	11,972.58			0.00%	-
TOTAL O - Overhead & Profit						-
TOTAL B - Bond & Insurance						-

Grand Total: **11,972.58**

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal.

At the present time, we cannot assess or evaluate the overall impact of the changed work on our original scope of work.

We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and / or acceleration and extended warranties.



August 26, 2025

J.F. Ahern Co
Attn: Adam Landen
855 Morris St., PO Box 1316
Fond du Lac, WI 54935

RE: Change Notice - Tariff Implementation

- Per Project: [M-00189] PROJECT Madison Well No. 15 (PO # 240-28081)

Dear *Adam*,

Implementation of tariffs has impacted material and component pricing for the above-referenced project through June 30, 2025, in the amount of \$ 11,972.58.

The implementation of unforeseen trade policy increased regulatory costs, and market volatility arising therefrom were not reasonably foreseeable by either party at the negotiation and execution of the contract, constituting a material change in circumstance in performance requirements as anticipated by the terms of our contract. AqueoUS Vets requests a change to the contract value commensurate with the change-driven increase in cost. An invoice is attached to facilitate smooth processing of the change in value.

AqueoUS Vets is continuing to monitor and assess the impact of tariffs on our supply chain and will supplement this initial quantification as appropriate.

Daniel H. Funk
Contract Manager
Cell: 304-671-3055
E-mail: dfunk@aqueousvets.com
www.aqueousvets.com



INVOICE

E.I.N. - 47-2950249

Invoice RI101555
Date Aug 26, 2025
Terms Net 45 Days
Due Date October 9, 2025

Bill To
J.F. Ahern Co
855 Morris Street
PO Box 1316
Fond Du Lac, WI 54935

Ship To
Madison Well #15
3900 E Washington Ave
Madison, WI 53704

Project # M-00189-01
Project Name Madison Well #15
Cust Ref # 240-28081
Plant AVJ

Item #	Description	Quantity	Unit Price	Tax %	Total Price
	Tariff impact to pricing through June 30, 2025	1	11,972.58		11,972.58

AqueoUS Vets, LLC encourages payment by ACH or Wire Transfer:
Bank of America, 16761 Clear Creek Rd., Redding, CA 96001-5131
Account Number: 325134102601 Account Name: AQUEOUS VETS, LLC
ACH/EFT Routing: 121000358 Domestic Wires Routing: 026009593
SWIFT Code: BOFAUS3N (U.S. DOMESTIC) BOFAUS6S (FOREIGN CURRENCY)

Physical checks can be mailed to AV's Headquarter.

Subtotal:	11,972.58
Subject To Sales Tax	0.00
Exempt from Sales Tax	11,972.58
Total Sales Tax:	0.00
Balance Due	\$11,972.58

Aqueous Vets LLC Headquarters: 16761 Clear Creek Road, Redding, CA 96001 finance@aqueousvets.com 925-331-0573

This is an electronically generated invoice and does not require physical signature.



855 Morris Street | P.O. Box 1316
Fond du Lac, WI 54936-1316
main 920.921.9020 | fax 920.929.8825
www.jfahern.com

6/16/2026
608-333-0121

Mr. Jake Cates
Joe Daniels Construction
919 Applegate Rd.
Madison, WI 53713

**RE: Madison Well #15
J. F. Ahern Co. Job No. 7548
Customer Contract No. 9342
CO22 4in Well Discharge Supply Line and Media Replacement Hose**

Dear Jake,

This change order is for the labor, material & equipment to provide a 4" copper supply line on the existing 12" well discharge line. This also includes the required hose to provide the media replacement swap out. Proposal is contingent upon current 601 Pipefitters Union wage rates. Contractor reserves the right to recover costs for any wage increases.

Respond by: 6/19/26

Eighteen Thousand Seven Hundred Fifteen and 05/100 Dollars.....\$18,715.05

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal.

At the present time, we cannot assess or evaluate the overall impact of the changed work on our original scope of work.

We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and / or acceleration and extended warranties.

Sincerely,

J. F. Ahern Co.

Adam Landen

Adam Landen
Project Manager
WI Major Construction Division

Enclosures
File:



Change Order Summary

Project: Madison Well #15	
Project #: 7548	
Proposal Date: 6/16/2026	
Change Order #: 27	
Revision: 0	
Description of Work: 4" Well Discharge Line & Media Changeout Hose	
Total CO Amount:	18,715.05

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
Subtotal Material	Lump Sum	1.00	Lump Sum	11,438.54		11,438.54
Mobilization	Lump Sum	1.00	Lump Sum	500.00		500.00
Sales Tax	Percent	11,938.54			0.00%	-
TOTAL M - Material						11,938.54
Superintendent	Unit Price	14.00	Hour	135.68		1,899.52
Foreman	Unit Price	10.00	Hour	135.68		1,356.80
Tool Costs	Percent	3,256.32			5.50%	179.10
TOTAL L - Labor						3,435.42
TOTAL S - Subcontract						-
TOTAL E - Equipment						-
TOTAL G - General Conditions						-
Project Management	Unit Price	10.00	Hour	90.00		900.00
TOTAL P - Project Management						900.00
Overhead & Profit - Materials	Percent	11,938.54			15.00%	1,790.78
Overhead & Profit - Labor	Percent	3,435.42			15.00%	515.31
Overhead & Profit - Equipment	Percent	-			15.00%	-
Overhead & Profit - Project Management	Percent	900.00			15.00%	135.00
TOTAL O - Overhead & Profit						2,441.09
TOTAL B - Bond & Insurance						-

Grand Total: **18,715.05**

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal.

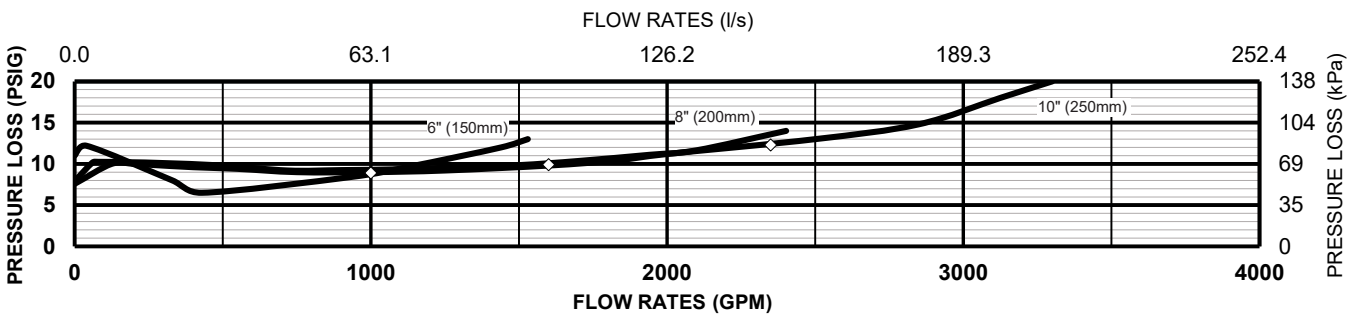
At the present time, we cannot assess or evaluate the overall impact of the changed work on our original scope of work.

We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and / or acceleration and extended warranties.

MODEL 375 2 1/2", 3" & 4" (STANDARD & METRIC)



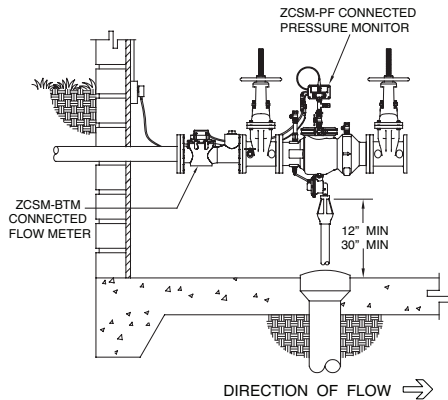
MODEL 375 6", 8" & 10" (STANDARD & METRIC)



Typical Installation

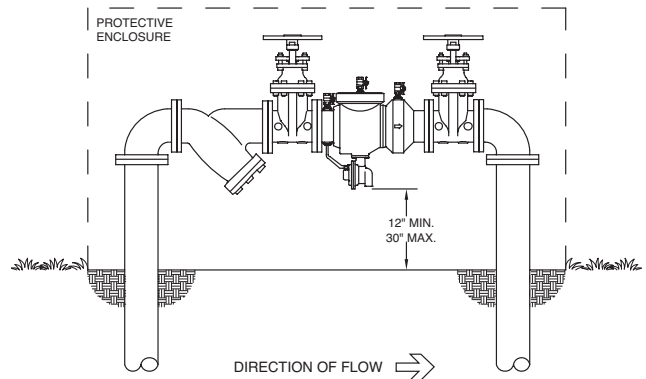
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe (GPM)				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 1/2"	75	112	149	224
3"	115	173	230	346
4"	198	298	397	595
6"	450	675	900	1351
8"	780	1169	1559	2339
10"	1229	1843	2458	3687
12"	1763	2644	3525	5288



INDOOR INSTALLATION

(375OSY with ZCSM-PF Connected Pressure Monitor and ZCSM-BTM Connected Flow Meter accessories)



OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1013, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Principle Backflow Prevention Assembly shall be a ZURN WILKINS Model 375.