



**ADDENDUM NO. 2
TO THE**

**David C. McCollom Water Treatment Plant pH Control System Project
for Olivenhain Municipal Water District**

October 12, 2021

The following addendum shall be made part of the Bidding Opportunity. **The deadline for questions has been CHANGED to Tuesday October 19 at 5:00 p.m. The deadline for submitting bids has been CHANGED at 2:00 p.m. Monday October 25, 2021 at 1966 Olivenhain Road, Encinitas, CA 92024.**

ADDENDUM SECTION 1-PRE-BID QUESTIONS

Q1. Sheet M-03, Plan View, Tank TK-6000 (Citric Acid), plans show a 2" drain connection at approx. 10:00 on the tank. This outlet is not shown on the Snyder tank drawing. Please confirm that the Snyder tank will have a 2" drain connection.

A: Tank Drain has been added to the tank outlet piping. See Revised Drawing M-03 and Detail 17 on Drawing MD-03

Q2. Sheet M-03, Plan View, Tank TK-6000 (Citric Acid), plans do not show an overflow for this tank, please note the Snyder Tank Drawing also does not show an overflow outlet. Please confirm that the Citric acid tank does not require an overflow line.

A: An overflow line is required. Contractor shall provide a 3" PVC overflow as shown on the REVISED Dwg M-03. The overflow shall be connected as shown on the drawing and the fill connection shall be relocated to the 2" port located on top of the tank as shown on REVISED Dwg M-03. Provide support struts as shown on the drawings. Locate the Reverse Level Sensor in the spare 4" port located on the top of the tank with a 4" x 2" reducer.

ADDENDUM SECTION 2 – REVISIONS

1. Sheet 7/28 Drawing M-01 - **REMOVE** Drawing M-01, **REPLACE** with Drawing M-01-Revised
2. Sheet 9/28 Drawing M-03 - **REMOVE** Drawing M-03, **REPLACE** with Drawing M-03-Revised
3. Sheet 10/28 Drawing M-04 - **REMOVE** Drawing M-04, **REPLACE** with Drawing M-04-Revised
4. Sheet 13/28 Drawing MD-03 - **REMOVE** Drawing MD-03, **REPLACE** with Drawing MD-03-Revised
5. Appendix A: 1550 Gal Tank Shop Drawing – **REMOVE** existing Appendix A, **REPLACE** with Revised Appendix A

ADDITIONAL INFORMATION

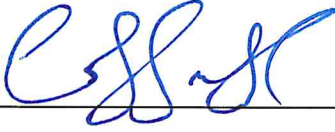
1. The agenda and notes from the Pre-Bid Meeting held on October 5, 2021 are attached.

END OF ADDENDUM NO. 2

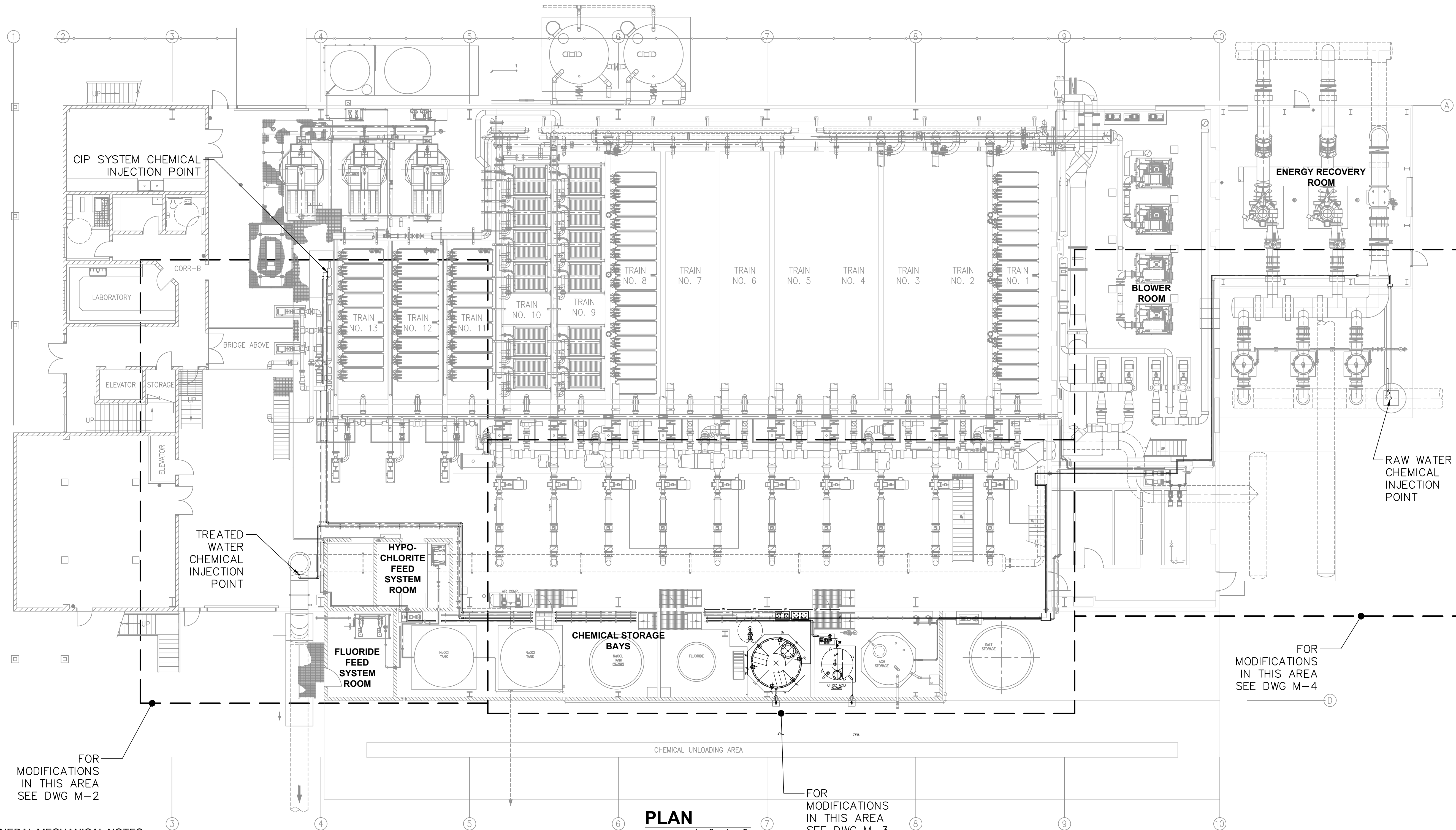
Attachments: Drawings M-01, M-03, M-04, and MD-03 (Revised)
Pre-Bid Meeting Minutes/Agenda
Appendix A: 1550 Gal Tank Shop Drawing (Revised)
Project at a Glance (Revised)

APPROVED:

OLIVENHAIN MUNICIPAL WATER DISTRICT



Geoff Fulks
Operations Manager



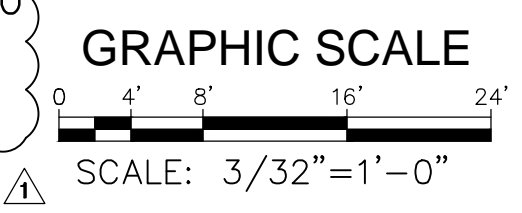
PLAN
SCALE: 3/32"=1'-0"

GENERAL MECHANICAL NOTES:

1. PROCESS EQUIPMENT DIMENSIONS, LOCATIONS AND PIPING SYSTEM LAYOUTS ARE BASED ON EQUIPMENT SELECTED AND SPECIFIED BY THE DESIGN ENGINEER. IF THE CONTRACTOR PROPOSES TO FURNISH EQUIPMENT THAT REQUIRES AN ARRANGEMENT OR SPACE DIFFERING FROM THAT INDICATED ON THE DRAWINGS OR AS SPECIFIED, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL DETAILED MECHANICAL, STRUCTURAL, INSTRUMENTATION, AND ELECTRICAL DRAWINGS AND EQUIPMENT LISTS SHOWING ALL NECESSARY CHANGES AND EMBODYING ALL FEATURES OF THE EQUIPMENT AND/OR PROCESS SYSTEM PROPOSED. THIS INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO PLANS, SECTIONS, DETAILS AND SCHEMATICS OF ALL APPURTENANCES REQUIRED.
2. SIZES OF EQUIPMENT FOUNDATIONS AND EQUIPMENT PADS INDICATED ON THE DRAWINGS ARE APPROXIMATE. EXACT DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FOR THE EQUIPMENT FURNISHED. ALL FLOOR MOUNTED EQUIPMENT SHALL BE SET ON CONCRETE PADS CONFORMING TO DETAILS SHOWN ON THE MECHANICAL DRAWINGS, OR AS INDICATED IN THE SPECIFICATIONS.
3. DIELECTRIC COUPLINGS, FLANGES OR UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
4. MECHANICAL PLANS AND SECTIONS DO NOT SHOW ALL VALVES, GAUGES, SWITCHES,

5. UNLESS OTHERWISE SHOWN ON THE MECHANICAL DRAWINGS, ALL WALL PENETRATIONS SHALL BE AS SHOWN ON THE PENETRATION DETAILS INCLUDED IN THE MECHANICAL DETAILS. IF APPROVED BY ENGINEER, THE CONTRACTOR MAY SUBSTITUTE ALTERNATE METHODS PROVIDING THEY MEET INTENDED DESIGN REQUIREMENTS.
6. CONTRACTOR SHALL DESIGN AND PROVIDE ALL PIPE SUPPORTS THAT ARE REQUIRED FOR A COMPLETE SYSTEM, BUT MAY NOT BE SHOWN ON THE DRAWINGS.
7. PIPING SHALL BE INSTALLED SO THAT ANY PIPE, LAYER OF PIPING OR EQUIPMENT CAN BE REMOVED WITHOUT DISTURBING REMAINING PIPES AND SUPPORTS.
8. THE NUMBER OF UNIONS AND OTHER TYPES OF DISMANTLING COUPLINGS SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL PROVIDE UNIONS OR DISMANTLING COUPLINGS WHETHER THEY ARE SHOWN ON THE DRAWINGS OR NOT ON ALL PIPELINES WITH WELDED, THREADED, OR SOLVENT CEMENTED JOINTS: AT ALL EQUIPMENT CONNECTIONS, AT A MINIMUM OF EVERY 50 FEET, AND IN BRANCH LINES TO ALLOW CONVENIENT REMOVAL OF PIPING, EQUIPMENT AND APPURTENANCES.

9. ALL PIPING AND PROCESS SYSTEMS SHALL BE CAPABLE OF BEING VENTED AND DRAINED.
10. ALL TUBE IN TUBE STYLE CONTAINMENT PIPING MUST HAVE FLUSH AND DRAIN PORTS EVERY 50'.
11. CONTRACTOR SHALL PROVIDE A TEMPORARY CAUSTIC STORAGE, SUPPLY, AND FEED SYSTEM TO MAINTAIN/PROVIDE CURRENT CAUSTIC INJECTION REQUIREMENTS TO THE EXISTING TREATED WATER EFFLUENT STREAM DURING PROJECT CONSTRUCTION. CONTRACTOR SHALL SUBMIT A DETAILED TEMPORARY CAUSTIC FEED SYSTEM AND PHASING PLAN TO OMWD FOR APPROVAL PRIOR TO CONSTRUCTION. AT MINIMUM, TEMPORARY CAUSTIC FEED SYSTEM AND PHASING PLAN SHALL INCLUDE ALL TEMPORARY EQUIPMENT TO BE USED, LOCATION AND LAYOUT OF TEMPORARY EQUIPMENT, BYPASS PLAN, AND CONSTRUCTION PHASING SCHEDULE.
12. ALL NEW AND REPURPOSED DUAL CONTAINMENT PIPING SHALL BE LABELED/RELABELLED TO CLEARLY INDICATE THE CHEMICAL BEING CONTAINED, AS WELL AS DIRECTION OF FLOW. NEW LABELS SHALL MATCH STYLE AND COLOR OF EXISTING CHEMICAL CONTAINMENT PIPING LABELS WITHIN THE TREATMENT PLANT.



ORIGINAL SCALE IN INCHES

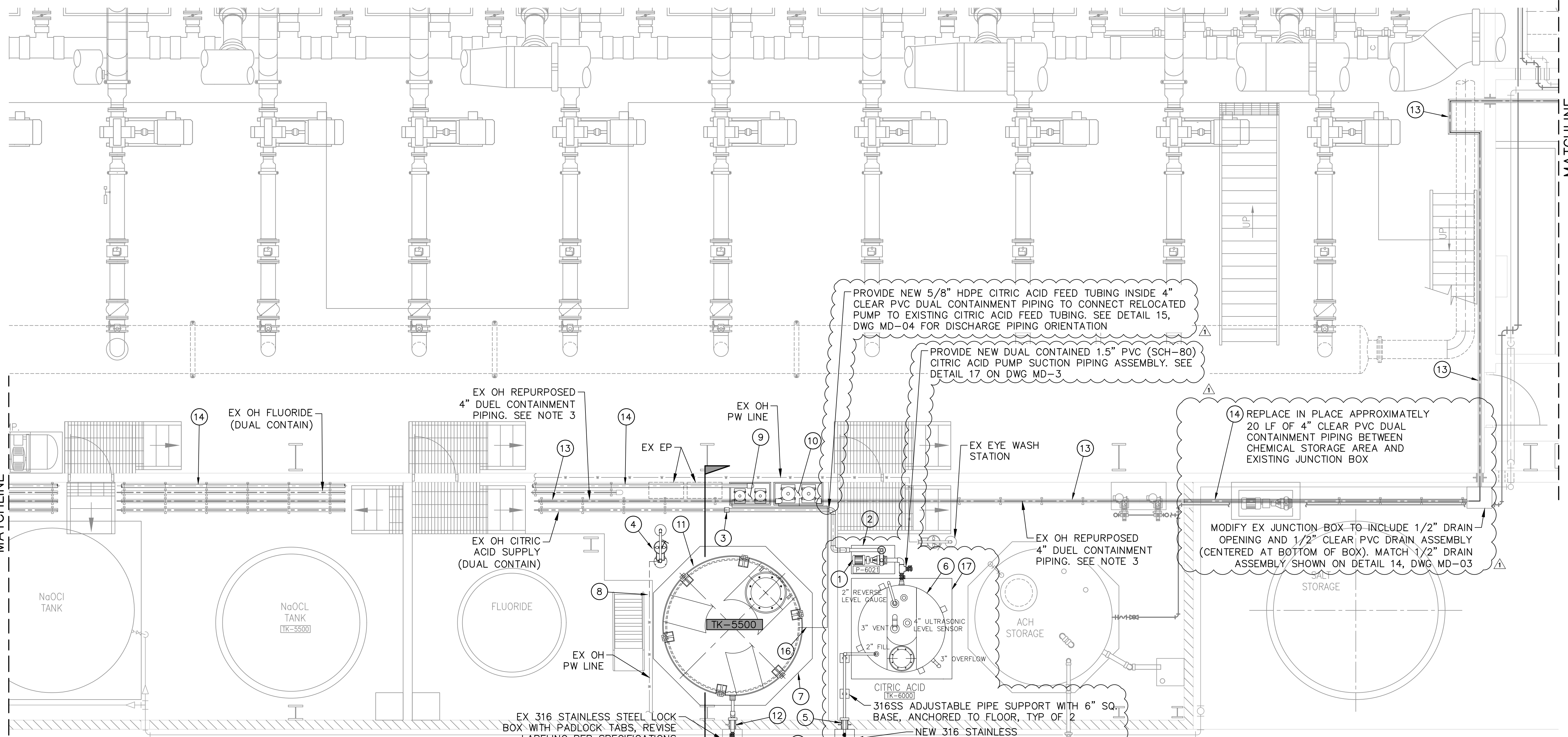
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MATCHLINE
 SEE DRAWING M-4



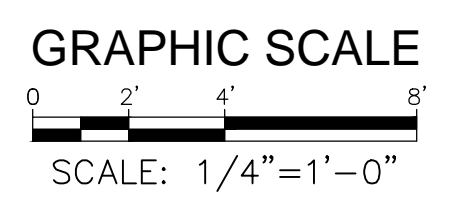
CONSTRUCTION LEGEND

- 1 RELOCATED CITRIC ACID PUMP P-6021. SEE NOTE 2
- 2 NEW CONCRETE EQUIPMENT PAD FOR CITRIC ACID PUMP PER DETAIL 11, DWG MD-02
- 3 CONNECT TO EX 4" CLEAR PVC CITRIC ACID DUAL CONTAINMENT PIPE USING 4" PVC COUPLING
- 4 NEW EYEWASH GUARDIAN G1950P
- 5 NEW WALL PENETRATION PER DTL 5 ON DWG MD-01
- 6 INSTALL 1550 GALLON CITRIC ACID TANK TK-6000 (TANK PROVIDED BY OMWD). CITRIC ACID TANK SHOP DRAWING INCLUDED AS AN APPENDIX TO THE TECHNICAL SPECIFICATIONS. PROVIDE FLEXIBLE/EXPANSION JOINTS ON TANK FILL PIPING, OVERFLOW PIPING, AND PUMP FEED PIPING.
- 7 NEW REINFORCED CONCRETE PAD FOR NEW CAUSTIC CHEMICAL STORAGE TANK
- 8 CONNECT TO EXISTING 1" DOMESTIC WATER LINE. PROVIDE APPROXIMATELY 10-LF OF NEW 1" SCH 80 COPPER WATER PIPING TO NEW EYEWASH STATION. PROVIDE 1" BRASS BALL VALVE AT CONNECTION TO EYEWASH STATION.
- 9 RELOCATED M3 CAUSTIC FEED PUMP SKID. SEE DWG MD-02 FOR CAUSTIC SKID PUMP AND DISCHARGE MANIFOLD DETAILS.
- 10 NEW MD3 CAUSTIC FEED PUMP SKID. SEE DWG MD-02 FOR CAUSTIC SKID PUMP AND DISCHARGE MANIFOLD DETAILS. PROVIDE NEW MD3 CAUSTIC FEED PUMP SKID PER SPECIFICATIONS.
- 11 NEW 10' NOMINAL DIAMETER 4400 GALLON CROSS-LINKED POLYETHYLENE, DOUBLE WALLED CHEMICAL STORAGE TANK TK-5500. SEE TANK DETAIL 15, DWG MD-04
- 12 EX WALL PENETRATION TO BE USED FOR NEW 3" FILL LINE
- 13 (2) - 5/8" HDPE CAUSTIC FEED TUBES INSIDE REPURPOSED EXISTING 4" CLEAR PVC DUAL CONTAINMENT PIPING. SEE NOTE 3.
- 14 (2) - 5/8" HDPE CAUSTIC FEED TUBES INSIDE 4" CLEAR PVC DUAL CONTAINMENT PIPING. USE EXISTING OVERHEAD PIPE SUPPORT STRUTS TO INSTALL NEW PIPING. SEE NOTE 4
- 15 2" CITRIC ACID CHEMICAL FILL STATION ASSEMBLY, AND 3" CAUSTIC CHEMICAL FILL STATION ASSEMBLY, PER DTL 2 ON DWG MD-01
- 16 1.5" PVC (SCH-80) CAUSTIC SUPPLY PIPING
- 17 NEW CITRIC ACID TANK CONCRETE PAD AND TANK RESTRAINT/ANCHORING SYSTEM SHALL BE IN ACCORDANCE WITH THE PROVIDED STRUCTURAL AND SEISMIC DESIGN CALCULATIONS INCLUDED AS AN APPENDICES TO THE TECHNICAL SPECIFICATIONS.

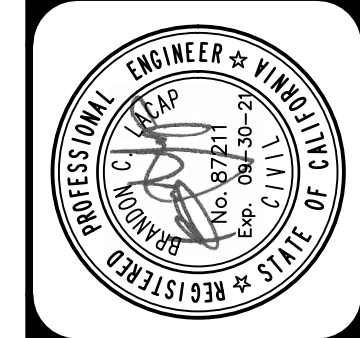
PLAN
 SCALE: 1/4"=1'-0"

NOTES:

1. ALL NEW DUAL CONTAINMENT PIPING SHALL BE 4" CLEAR PVC. ALL BENDS IN DUAL CONTAINMENT PIPING SHALL BE LONG-RADIUS SWEEP ELBOWS.
2. EXISTING SEAL FLUSHING & DRAIN SYSTEM FOR CITRIC ACID PUMP TO BE REMOVED AND RELOCATED WITH CITRIC ACID PUMPING UNIT. CONTRACTOR RESPONSIBLE FOR RECONNECTION OF CITRIC ACID PUMP SEAL FLUSHING SYSTEM TO EXISTING SOURCE WATER AND DRAINAGE SYSTEMS. CONTRACTOR TO ENSURE SEAL FLUSHING SYSTEM IS OPERABLE AFTER INSTALLATION OF NEW CITRIC ACID STORAGE TANK. WALL PENETRATIONS TO BE GROUT SEALED AND EPOXIED PER SPECIFICATIONS.
3. CONTRACTOR TO REPURPOSE EXISTING 4" PVC FLUORIDE DUAL CONTAINMENT PIPING FOR NEW CAUSTIC FEED TUBING. CONTRACTOR TO PULL (2) - 5/8" BLACK HDPE CAUSTIC FEED TUBES THROUGH EXISTING REPURPOSED 4" PVC PIPING FROM LOCATION OF NEW CAUSTIC STORAGE AND FEED AREA TO NEW CAUSTIC FEED TUBE MANIFOLD LOCATED IN ENERGY RECOVERY ROOM (NEW MANIFOLD INDICATED ON DWG M-04).
4. PROVIDE NEW 316 STAINLESS STEEL STRUT-MOUNTED PIPE STRAPS AT EACH EXISTING OVERHEAD PIPE SUPPORT FOR NEW 4" DUAL CONTAINMENT PIPING. STRUT SPACING NOT TO EXCEED 48". CONTRACTOR TO VERIFY EXISTING PIPE SUPPORT STRUT CHANNEL SIZE PRIOR TO FURNISHING PIPE STRAPS.
5. CONTRACTOR TO REPURPOSE EXISTING 4" PVC FLUORIDE DUAL CONTAINMENT PIPING FOR NEW CAUSTIC FEED TUBING. CONTRACTOR TO PULL (2) - 5/8" BLACK HDPE CAUSTIC FEED TUBES THROUGH EXISTING REPURPOSED 4" PVC PIPING FROM LOCATION OF NEW CAUSTIC STORAGE AND FEED AREA TO TREATED WATER INJECTION POINT.
6. CONTRACTOR SHALL SUBMIT DESIGN OF NEW REINFORCED CONCRETE PAD (FOR NEW CAUSTIC STORAGE TANK) TO ENGINEER FOR APPROVAL. STRUCTURAL AND SEISMIC DESIGN CALCULATIONS SHALL BE STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA, AND INCLUDED IN THE SUBMITTAL FOR APPROVAL.
7. ALL TUBE IN TUBE STYLE CONTAINMENT PIPING MUST HAVE FLUSH AND DRAIN PORTS EVERY 50'.
8. ALL NEW AND REPURPOSED DUAL CONTAINMENT PIPING SHALL BE LABELED/RELABELLED TO CLEARLY INDICATE THE CHEMICAL BEING CONTAINED, AS WELL AS DIRECTION OF FLOW. NEW LABELS SHALL MATCH STYLE AND COLOR OF EXISTING CHEMICAL CONTAINMENT PIPING LABELS WITHIN THE TREATMENT PLANT.



MARK	DATE	BY	REVISIONS
A	10/6/21	CC	ADDENDUM 2 REVISIONS



PLANS PREPARED BY:
DUDEK
 605 Third Street, Redlands, CA 92374
 760-942-5147 Fax 760-932-0144

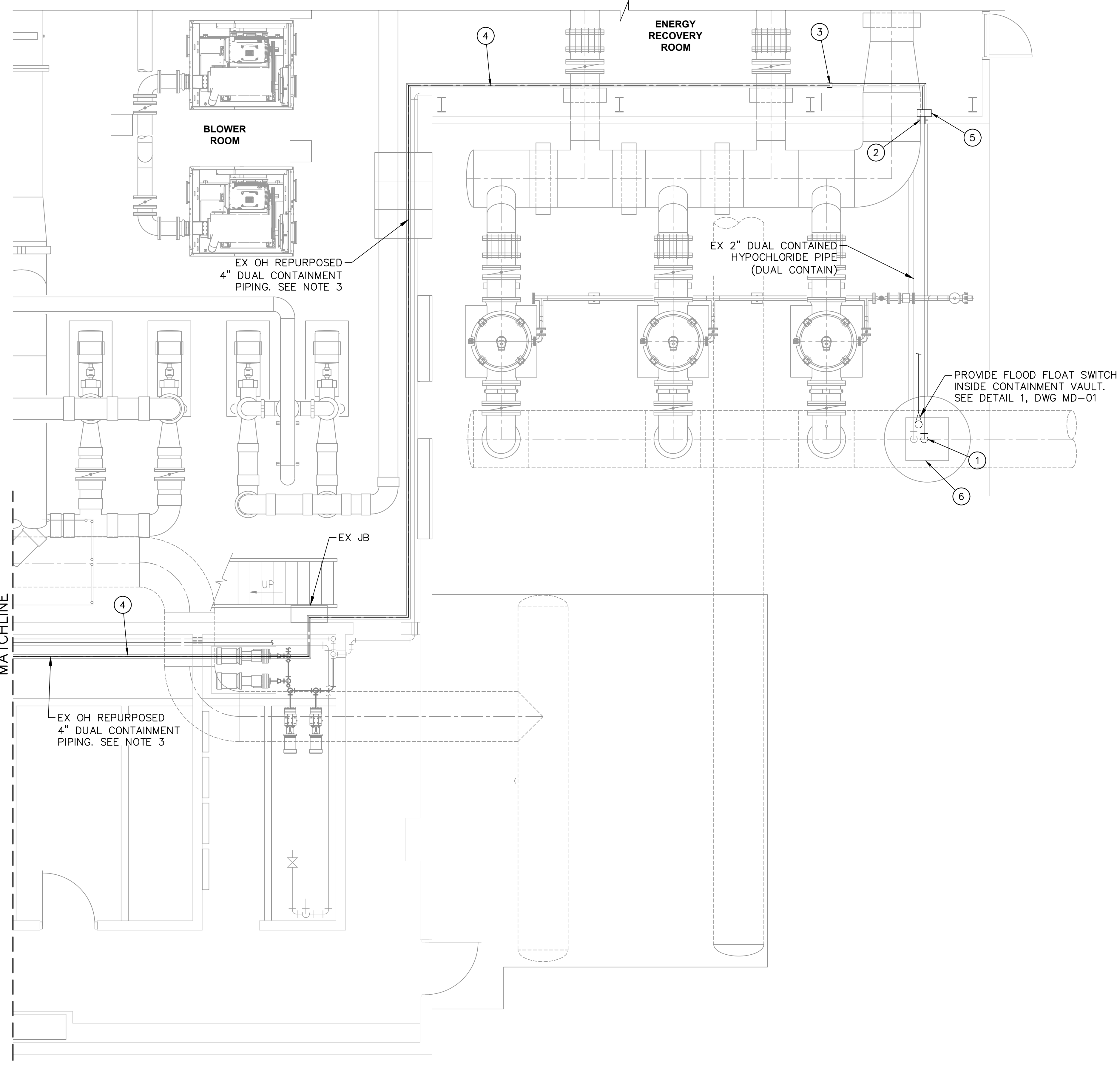
OLIVER HAIN
 Municipal Water District
 605 Third Street, Redlands, CA 92374
 Redlands, CA 92374 (760) 793-6408

DAVID C. McCOLLOM WTP
 WATER TREATMENT PLANT
 CHEMICAL AREA 2
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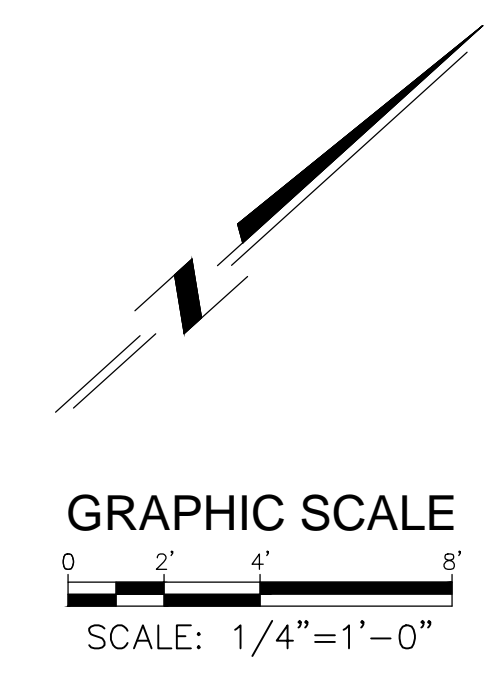
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 D120068

DWG: \\dudek\data\Projects\101\Engineering\Olivehain MW\12874 DDW\WTP pH Control System\06.CAD\12874 SH08-10 M-2 to M-4.dwg USER: bliacop
 DATE: Oct 07, 2021 10:42am XREFS: 12874 X-TB 12874 X-EX-WIP 12874 X-NEW-CHEM-PIPING

SEE DRAWING M-3
MATCHLINE



PLAN
SCALE: 1/4"=1'-0"



CONSTRUCTION LEGEND

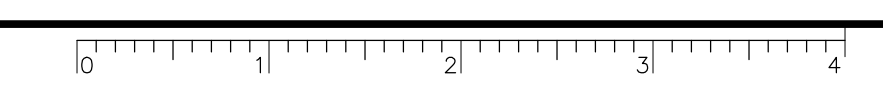
- ① INJECTION QUILL ASSEMBLY PER DTL 1 ON DWG MD-01
- ② METAL WALL PENETRATION PER DTL 4 ON DWG MD-01
- ③ CONNECT NEW 4" CLEAR PVC DUAL CONTAINMENT PIPE TO EXISTING 4" CLEAR PVC DUAL CONTAINMENT PIPE USING 4" PVC COUPLING, SEE NOTE 1.
- ④ (2) - 5/8" BLACK HDPE CAUSTIC FEED TUBES INSIDE REPURPOSED EXISTING 4" CLEAR PVC DUAL CONTAINMENT PIPING. SEE NOTES 2 AND 3.
- ⑤ CAUSTIC FEED TUBING MANIFOLD PER DTL 14 ON DWG MD-03.
- ⑥ GROUT/SEAL ALL OPENINGS IN BOTTOM OF EXISTING CONTAINMENT VAULT. EPOXY COAT ALL MASONRY SURFACES USING TNEMEC V290 FLAXSEED UV RESISTANT EPOXY.

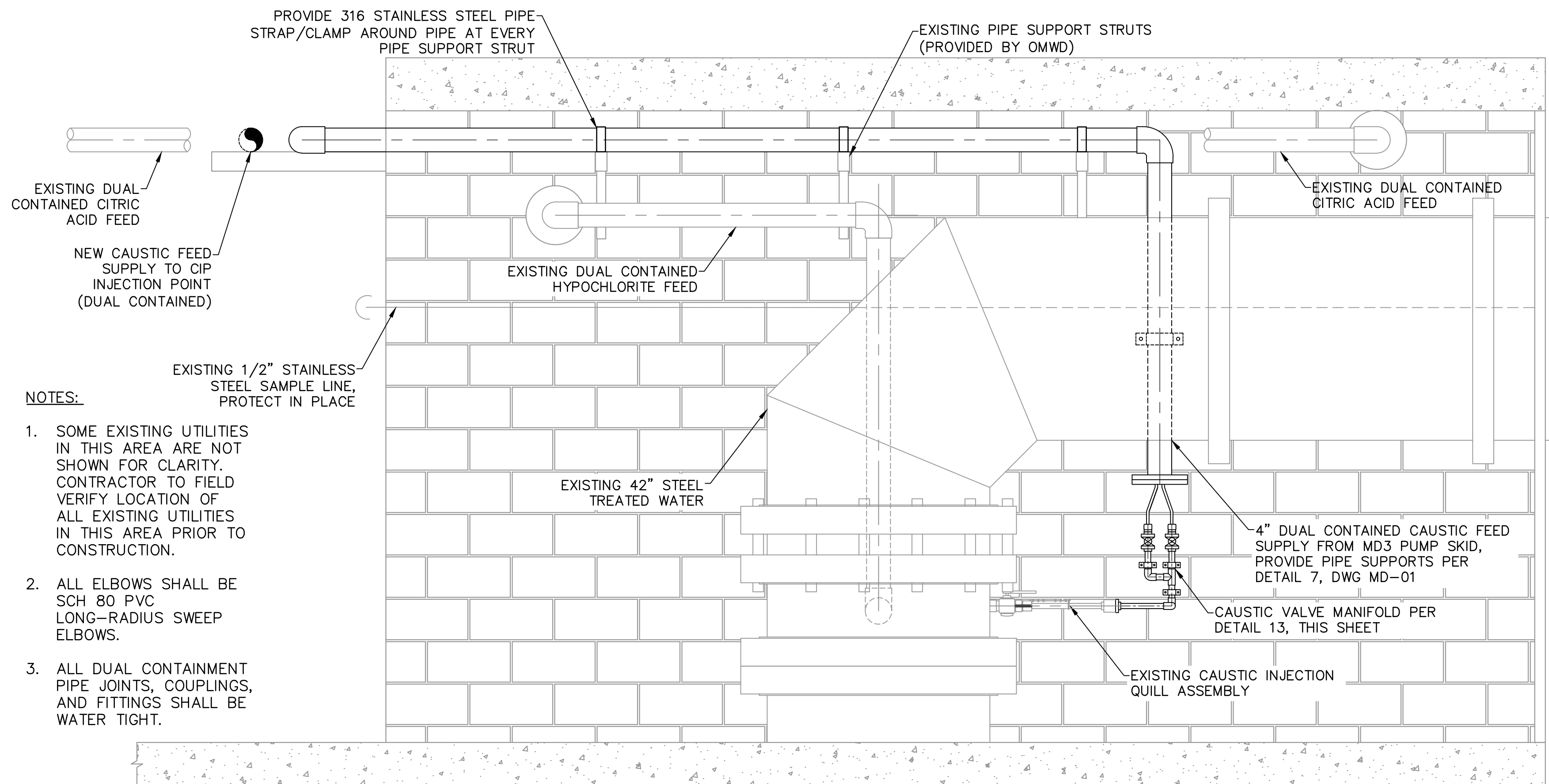
NOTES:

1. ALL NEW DUAL CONTAINMENT PIPING SHALL BE 4" CLEAR PVC. ALL BENDS IN DUAL CONTAINMENT PIPING SHALL BE LONG-RADIUS SWEEP ELBOWS. ALL DUAL CONTAINMENT PIPE JOINTS, COUPLINGS, AND FITTINGS SHALL BE WATER TIGHT.
2. PROVIDE NEW 316 STAINLESS STEEL STRUT-MOUNTED PIPE STRAPS AT EACH EXISTING OVERHEAD PIPE SUPPORT FOR NEW 4" DUAL CONTAINMENT PIPING. CONTRACTOR TO VERIFY EXISTING PIPE SUPPORT STRUT CHANNEL SIZE PRIOR TO FURNISHING PIPE STRAPS.
3. CONTRACTOR TO REPURPOSE EXISTING 4" PVC FLUORIDE DUAL CONTAINMENT PIPING FOR NEW CAUSTIC FEED TUBING. CONTRACTOR TO PULL (2) - 5/8" BLACK HDPE CAUSTIC FEED TUBES THROUGH EXISTING REPURPOSED 4" PVC PIPING FROM LOCATION OF NEW CAUSTIC STORAGE AND FEED AREA TO NEW CAUSTIC FEED TUBE MANIFOLD LOCATED IN ENERGY RECOVERY ROOM.
4. ALL TUBE IN TUBE STYLE CONTAINMENT PIPING MUST HAVE FLUSH AND DRAIN PORTS EVERY 50'.
5. ALL REPURPOSED DUAL CONTAINMENT PIPING SHALL BE RELABELED TO CLEARLY INDICATE THE CHEMICAL BEING CONTAINED, AS WELL AS DIRECTION OF FLOW. NEW LABELS SHALL MATCH STYLE AND COLOR OF EXISTING CHEMICAL CONTAINMENT PIPING LABELS WITHIN THE TREATMENT PLANT.

	REVISIONS				
	BY	DATE	MARK	DESIGN	CHECK
	CC	10/6/21	A	BL	MM
	ADENDUM 2			NH	MM
PLANS PREPARED BY: DUDEK 605 Third Street, Escondido, CA 92026 760.942.5147 Fax 760.832.0144					
BRANDON C. LACAP 12/29/20 ENGINEER P.E. DATE					
DAVID C. McCOLLOM WTP WATER TREATMENT PLANT CHEMICAL AREA 3 PLAN					
SHEET 10 OF 28 M-04					
D120068					

ORIGINAL SCALE IN INCHES

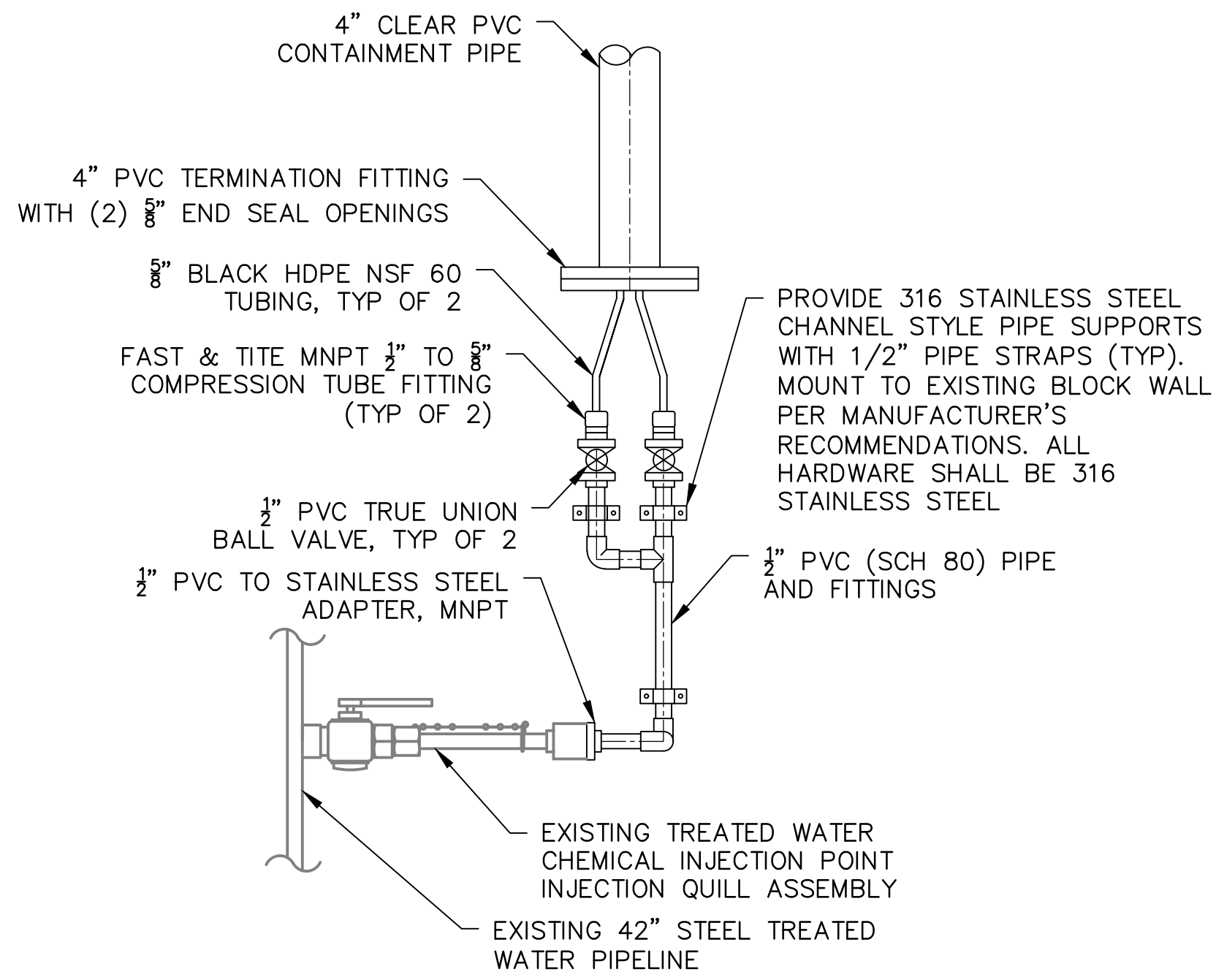




- NOTES:**
- SOME EXISTING UTILITIES IN THIS AREA ARE NOT SHOWN FOR CLARITY. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES IN THIS AREA PRIOR TO CONSTRUCTION.
 - ALL ELBOWS SHALL BE SCH 80 PVC LONG-RADIUS SWEEP ELBOWS.
 - ALL DUAL CONTAINMENT PIPE JOINTS, COUPLINGS, AND FITTINGS SHALL BE WATER TIGHT.

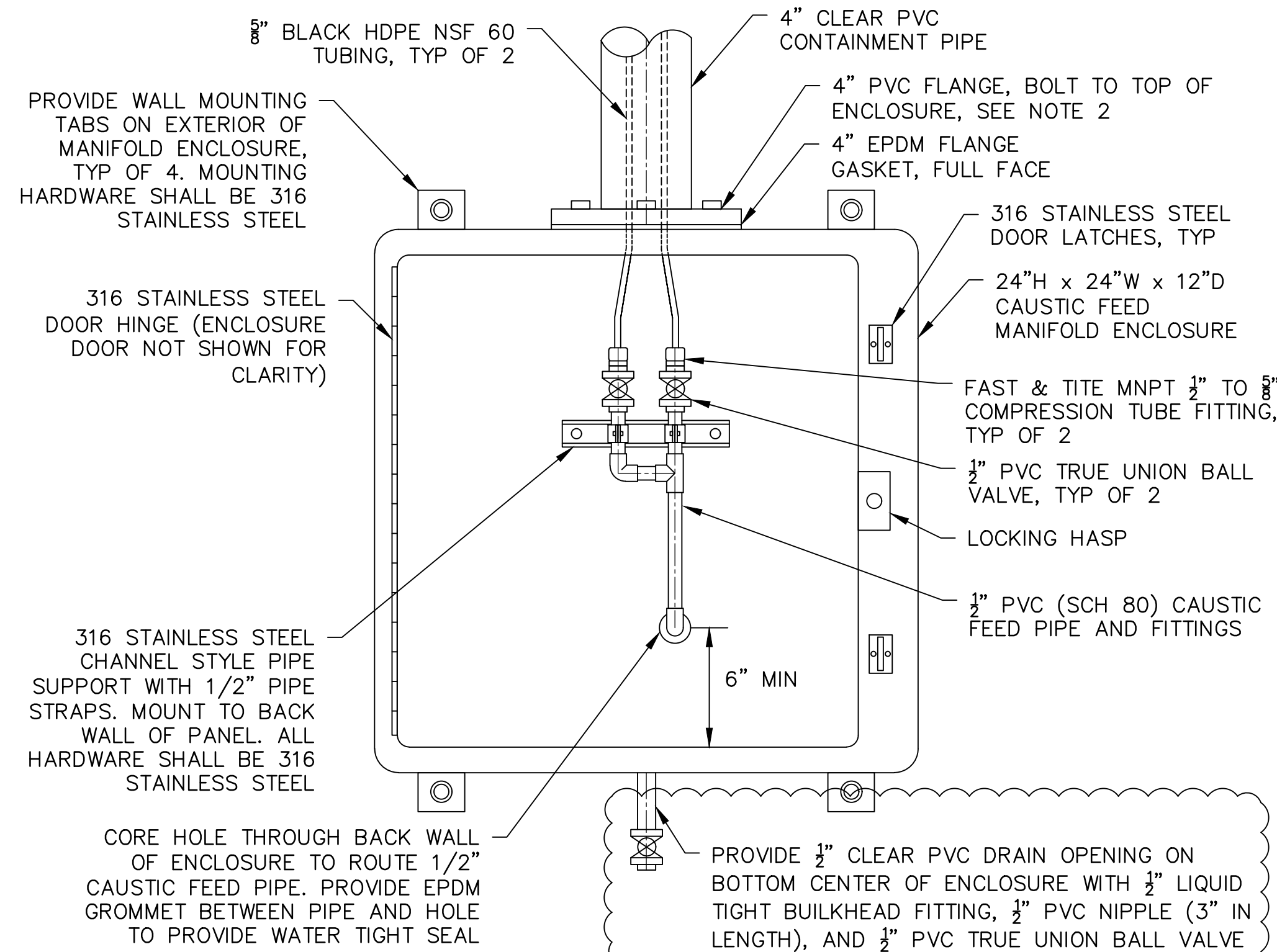
TREATED WATER CHEMICAL INJECTION POINT PIPING

DETAIL 12
SCALE: 3/4" = 1'
M-02



TREATED WATER INJECTION POINT

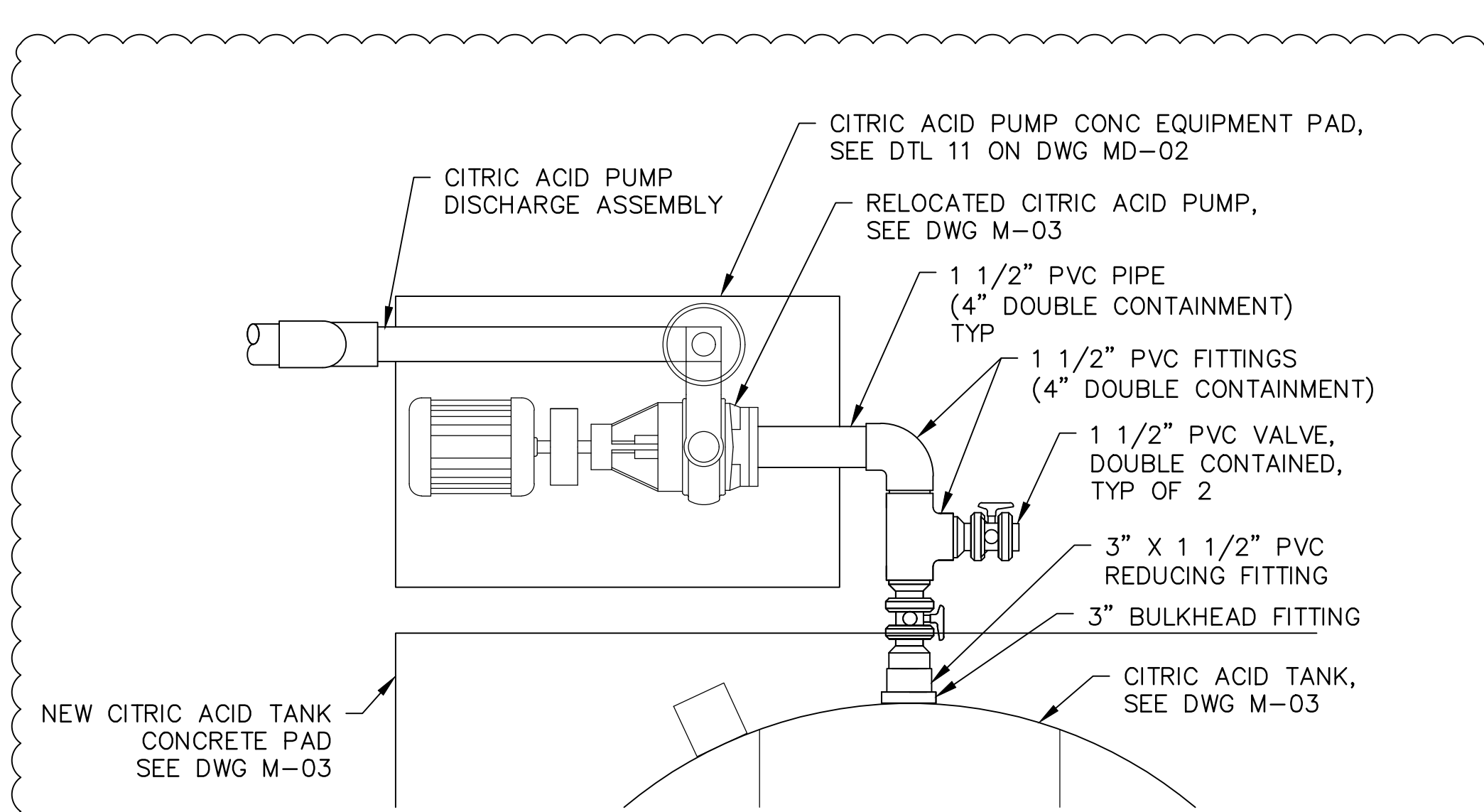
DETAIL 13
NOT TO SCALE
M-02



CAUSTIC FEED TUBING MANIFOLD AND ENCLOSURE

DETAIL 14
NOT TO SCALE
M-04

- NOTES:**
- MANIFOLD ENCLOSURE SHALL BE CONSTRUCTED OF HOT COMPRESSION MOLDED FIBERGLASS REINFORCED POLYESTER. MANUFACTURED BY STAHLIN ENCLOSURES, HWT CONFIGURATION, NO EQUAL.
 - CORE A 4" DIAMETER HOLE THROUGH TOP OF ENCLOSURE (CENTERED) FOR ROUTING CAUSTIC FEED TUBING.
 - ENCLOSURE DOOR SHALL HAVE POLYURETHANE SEAMLESS GASKET AROUND ENTIRE PERIMETER. ENCLOSURE DOOR SEAL SHALL BE LIQUID TIGHT WHEN DOOR IS CLOSED. ENCLOSURE DOOR SHALL INCLUDE 316 STAINLESS STEEL LATCHES



- NOTES:**
- ALL PVC PIPING SHALL BE SCH 80, DOUBLE CONTAINED

CITRIC ACID PUMP SUCTION PIPING ASSEMBLY

DETAIL 17
NOT TO SCALE
M-03

DWG: P:\01\Engineering\Olinetion\MD\2874\DCM\WTP pH Control System\06\CAD\2874_Shtx MD-1 to MD-4.dwg
 USER: blacop
 DATE: Oct 07, 2021 10:25am
 XREFS: 12874 X-TB

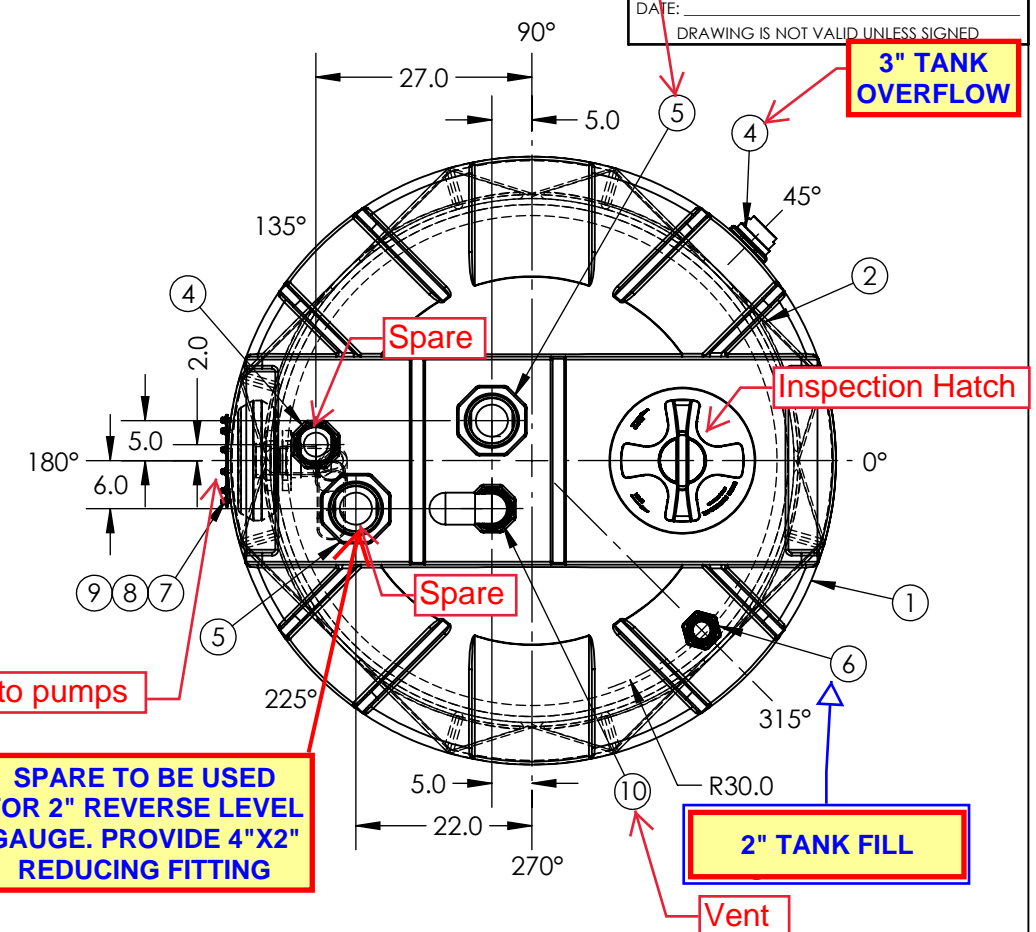
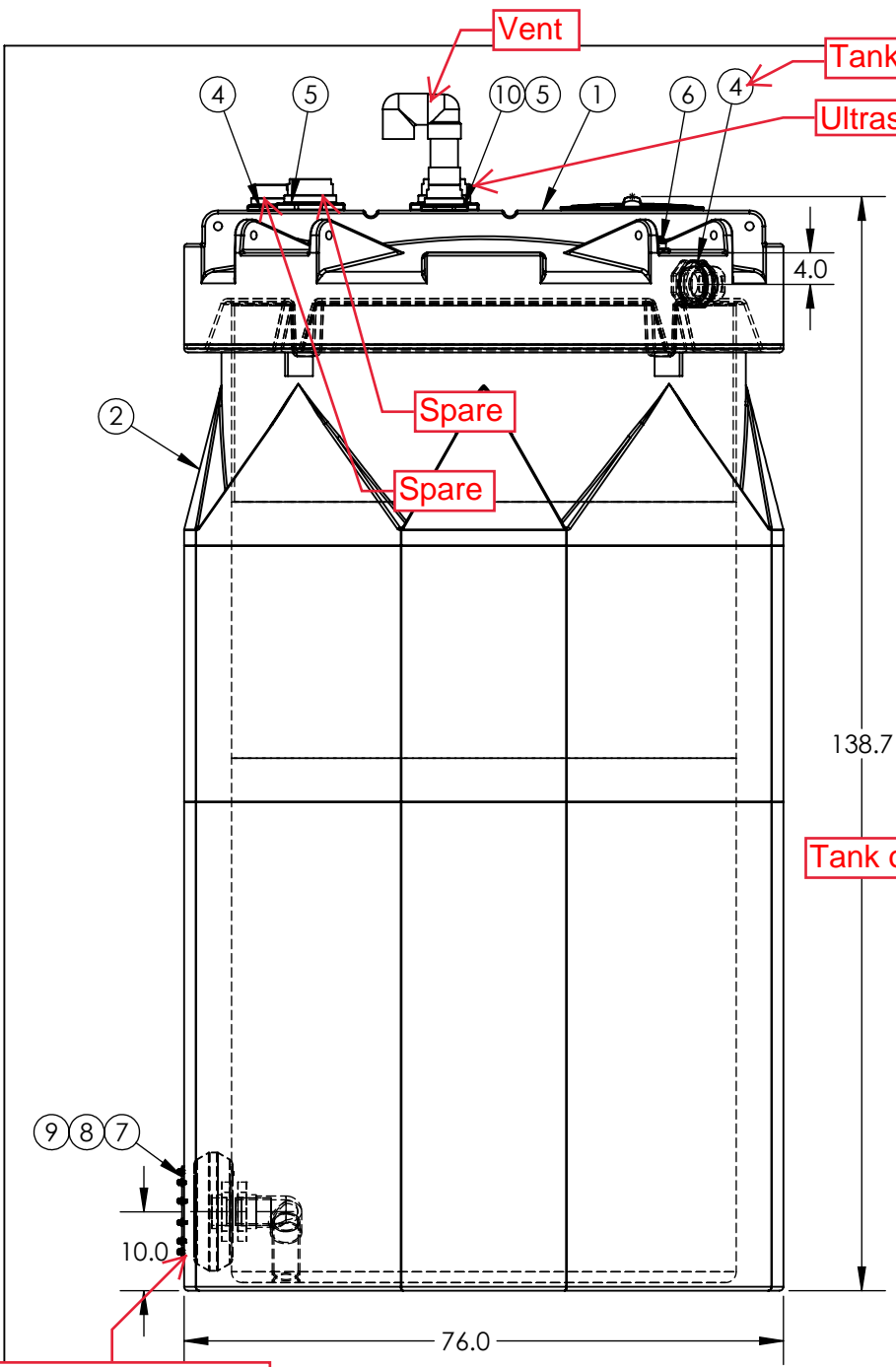
REVISIONS	ADDENDUM 2 REVISIONS
BY	CC
DATE	10/6/21
MARK	A
DESIGN	BL
DRAWN	NH
CHECK	MM

PLANS PREPARED BY: **DUDEK**
 6600 N.W. 11th St., Suite 100
 Fort Lauderdale, FL 33309
 Phone: 754.945.1147 Fax: 754.945.2044

BRANDON C. LACAP 12/29/20
 ENGINEER P.E.

DAVID C. McCOLLOM WTP
WATER TREATMENT PLANT
 MECHANICAL DETAILS - 3

SHEET 13 OF 28 MD-03
 D120068



CUSTOMER APPROVAL
 APPROVED FOR PRODUCTION AS DRAWN.
 REVISE AS NOTED & RESUBMIT FOR APPROVAL.
 SIGNATURE: _____
 DATE: _____
 DRAWING IS NOT VALID UNLESS SIGNED.

SPARE TO BE USED FOR 2\"/>

SII DOES NOT RECOMMEND OR WARRANT THE USE OF BULKHEAD FITTINGS LARGER THAN 2\"/>

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	SHOWN	TANK CONFIG.
10	1	34700259	ASM U-VENT PVC 3IN W/BH & EPDM	YES	YES
9	1	34701258	ASM SIPHON TUBE 3IN PVC	YES	YES
8	1	34700632	ASM FTG PVC 3IN ENCAP SLB BLTD/EPDM	YES	YES
7	1	1070000N93817	ASM FITTING UFO LD/NAT 3IN PVC/EPDM	YES	YES
6	1	34200015	FTG PVC 2IN BH SXT EPDM HYWD	YES	YES
5	2	34200055	FITTING PVC 4IN BH SXT HYWD	YES	YES
4	2	34200016	FITTING PVC 3IN BH SXT HYWD	YES	YES
3	1	00000172	PROTECTIVE PLASTIC PACKAGING 1000 - 1685	NO	YES
2	1	5460000N97201	ASM TK 1550CC X 76 HD/NAT 1.9	YES	YES
1	1	5490000N95801	ASM TK 1550CP X 64 XL/NAT 1.9	YES	YES

Tank outlet to pumps

Seismic Included but not shown

***ALL EXTERNAL PIPING MUST BE INDEPENDENTLY SUPPORTED.
 *ONLY BASE FITTINGS TO BE LEFT INSTALLED AT TIME OF SHIPMENT PER SII PROC
 *Consult Snyder's Guidelines for Use and Installation prior to delivery.
 Available on-line at www.snyderindustriestanks.com/Technical**

**ALL DIMENSIONS ARE IN INCHES, NOMINAL, & SUBJECT TO CHANGE WITHOUT NOTICE.
 ALL DIMENSIONS ON ROTATIONAL MOLDED PARTS ARE SUBJECT TO A ± 3% TOLERANCE.**

CUSTOMER: **CORE-ROSION** CUSTOMER NO: **C-05-18-03A**

DO NOT SCALE DRAWN BY: **STI SNYDER INDUSTRIES, INC.** TITLE: **ASM TK 1550CP X 64 XL/NAT 1.9** REVISION: **A**

Released BH © SNYDER INDUSTRIES, INC., 2018

ALL DIMENSIONS, DESIGNS, AND INFORMATION ON THIS PRINT MUST BE CONSIDERED PROPRIETARY TO SNYDER INDUSTRIES, INC. AND MAY NOT BE USED, COPIED, OR DISTRIBUTED WITHOUT WRITTEN PERMISSION OF AN OFFICER (OR HIS AGENT) OF THE FIRM.

(402) 467-5221 www.snyder.net.com

PART NO: **5490000N958** ENG. ID: **A012612**

SHEET 1 OF 1



PROJECT INFORMATION AT A GLANCE

Project Name	David C. McCollom Water Treatment Plant pH Control System
Project Number	D120068
Estimated Const. Cost	\$480,000
Pre-Bid Meeting Date	Tuesday, October 5 th at 10:00 a.m. David C. McCollom Water Treatment plant: 19090 Via Ambiente Road, Escondido, CA 92029
Pre-Bid Questions Due	No later than Tuesday, October 19, 2021 at 5:00 p.m. prebid@olivenhain.com
Bid Due Date	Monday, October 25, 2021 at 2 p.m. District Office: 1966 Olivenhain Rd., Encinitas, CA 92024

Please note, this sheet is meant for informational purposes only. Please be sure to carefully read and review the contract documents prior to submitting your bid. The District reserves the rights to reject a bid if any information is found to be incomplete.



David C. McCollom Water Treatment Plant pH Control System Project

Pre-Bid Meeting *Notes*

Date and Time:

Tuesday October 5, 2021 10AM

Location:

DCMWTP: 19090 Via Ambiente Rd. Escondido, CA 92029

Attendees:

Colette Barrow, Operations Coordinator

Geoff Fulks, Operations Manager

Tom Arellano, DCMWTP Supervisor

George Briest, Engineering Consultant

Brandon Lacap, Design Engineer, Dudek

District Project Information: PN: D120068; EAM: 341405

1. INTRODUCTIONS & SIGN-IN

- Sign-in sheet is attached and will be distributed via email with the meeting minutes
- *Sign in sheet attached*

2. THE WORK

- a) Demolish and dispose of existing citric acid chemical storage tank and existing concrete equipment pad. Install new District provided 1,550 gallon double wall citric acid chemical storage tank in adjacent ACH chemical storage and supply area. Design, furnish, and construct a new citric acid chemical storage tank equipment pad. Construct a storage tank seismic anchoring system in accordance with the provided seismic design calculations and District provided seismic cables and hold downs. Provide all required tools and materials required for a complete anchoring system. Tank installation includes removal and reinstallation of existing chemical storage area metal roof, metal roof support cross-beams, area lighting, and other existing utilities. Roof removal requires submittal of roof removal and reinstallation work plan, and safety plan for review and approval by OMWD.
- b) Relocate existing citric acid feed pump, associated valves and appurtenances, including seal flush system, to adjacent ACH chemical storage and supply area. Demolish existing concrete equipment pad and concrete pipe supports for supply piping.
- c) Salvage existing sodium hydroxide (caustic) chemical storage tank to OMWD Operations staff.
- d) Demolish and dispose of existing caustic supply and feed piping and tubing. This includes both the feed tubing and containment piping to existing CIP chemical injection point, and feed tubing and containment tubing to existing treated water chemical injection point.

- e) Remove and dispose of existing fluoride feed tubing from existing fluoride injection double containment piping. Demolish existing fluoride feed piping and manifold from existing energy recovery room to raw water chemical injection point in existing vault. Demolish existing fluoride injection quill assembly at chemical injection point to raw water piping.
- f) Demolish and dispose of existing abandoned citric acid dual containment piping.
- g) Demolish and dispose of existing citric acid storage area access stairs and landing.
- h) Demolish existing caustic feed system control panel and associated conduits and wiring.
- i) Demolish and replace existing emergency eyewash and shower station in existing citric acid storage area. Includes furnishing and installing new water supply piping and connecting new emergency eyewash and shower station to existing overhead domestic water supply piping in chemical storage bay area.
- j) Removal and replacement of existing chemical storage bay perimeter fencing, area lighting, and metal roof sections as necessary to remove existing citric acid chemical storage tank and install new caustic chemical storage tank.
- k) Furnish and install a new 4,400 gallon, double walled, crosslinked polyethylene caustic storage tank in place of existing citric acid chemical storage tank. Design, furnish and construct a new equipment pad with seismic anchoring/bracing for new tank. Include seismic design calculations stamped and signed by a registered professional Structural Engineer licensed in the state of California. Tank installation includes removal and reinstallation of existing chemical storage area metal roof, metal roof support cross-beams, area lighting, and other existing utilities. Roof removal requires submittal of roof removal and reinstallation work plan, and safety plan for review and approval by OMWD.
- l) Furnish and install new caustic storage tank fill station assembly and associated piping/appurtenances. Furnish and install new citric acid storage tank fill station assembly and associated piping/appurtenances. Furnish and install new locking 316 stainless steel fill station box(es).
- m) Relocate existing caustic chemical feed system pump skid (Blue-White M3 pump skid) and all associated appurtenances in place of the existing citric acid pumping system. Relocated caustic feed system will be used for chemical injection into CIP system.
- n) Furnish and install new primary and backup caustic feed tubing within new clear double containment piping overhead from relocated caustic chemical feed skid to existing CIP system chemical injection point. Utilize existing overhead pipe supports/struts and provide new pipe straps.
- o) Furnish and install new caustic chemical feed system pump skid (with Blue White MD-3 pumps, no equal) in new caustic chemical storage area. New caustic feed system will be used for chemical injection into plant raw untreated water influent piping as well as plant combined filter treated water effluent piping.
- p) Furnish and install new primary and backup caustic feed tubing within existing repurposed clear double containment piping (previously fluoride feed double containment piping) overhead from new caustic feed system pump skid to plant raw untreated water chemical injection point near the energy recovery room. Utilize existing overhead pipe supports/struts and provide new pipe straps.

- q) Furnish and install new primary and backup caustic feed tubing within new clear double containment piping overhead from new caustic feed system pump skid to plant combined filter treated water effluent piping. Utilize existing overhead pipe supports/struts and provide new pipe straps.
- r) Coordination with OMWD operations staff for removal, demolition, and disposal of existing injection quill within raw water chemical injection containment vault, demolition and disposal of connecting fluoride feed piping in containment vault and adjacent utilities trench, demolition and disposal of existing fluoride feed valve manifold inside Energy Recovery Room, furnishing and installation of new caustic feed manifold and enclosure in Energy Recovery Room, furnishing and installation of new caustic feed piping and all associated valves and appurtenances from Energy Recovery Room to raw water chemical injection point, furnishing and installation of new caustic chemical injection quill.
- s) Furnishing and installation of new containment vault flood float switch and associated signal cable and cable supports.
- t) Grouting/sealing bottom of existing containment vault, and coating of existing vault interior.
- u) Furnish and install new supply piping and manifold from new caustic storage tank to feed both new and relocated caustic feed system pump skids. Provide new pipe supports and pipe straps.
- v) Furnish and install new caustic feed system controls, including power supply, digital/analog signals for alarms and signals. Integrate new caustic chemical feed/dosing systems to be controlled via existing treatment plant SCADA system. Provide all new conduit and wiring as necessary to provide fully functioning caustic chemical supply and feed systems.
- w) Provide a temporary caustic storage, supply, and feed system to maintain/provide current caustic injection requirements to the existing treated water effluent stream during project construction. Contractor shall submit a detailed temporary caustic feed system and phasing plan to OMWD for approval prior to construction. At minimum, the temporary caustic feed system and phasing plan shall include all temporary equipment to be used, location and layout of temporary equipment, bypass plan, and construction phasing schedule.

3. BIDS DUE

- Bids must be stamped as received by District Staff before **2:00 p.m. on the 21st day of October 2021** at the District office, 1966 Olivenhain Road, Encinitas, CA 92024
- The bid package shall include the following completed documents:
 - Provide a copy of the Bid Form Checklist with all required attachments
 - Completed Bid Form including acknowledgement of any issued Addenda.
 - Note: The entire set of Contract Documents is **NOT** required to be submitted for the contractor to be considered responsive

4. KEY DATES

- Pre-Bid Questions due to Engineering at prebid@olivenhain.com no later than 5:00 pm October 14, 2021
- Consideration of award of contract at the regularly scheduled Board of Directors meeting on Wednesday November 17, 2021
- If awarded, the Notice to Proceed will be issued once the contract documents are fully executed
 - **Time is of the essence**

5. BIDDING INFORMATION

- Contractor shall be registered with California Department of Industrial Relations (DIR) and shall have a valid California contractor's license
- California Prevailing wage rates apply
- The bidding documents are posted on District's website at www.olivenhain.com
 - Select the "Construction Projects" Tab and scroll down to "Upcoming Projects and Planning Resources" to access the document links

6. BID SCHEDULE

- There is one (1) Bid Schedule
- Completely fill in the lump sum and/or unit price amount for all items in the Bid Schedule
- Complete and initial the Bid Form Checklist and return with the Bid
- Acknowledgement of issued Addenda is mandatory. Currently Addendum 1 has been issued and additional addenda are being considered for issuance.

7. ADDITIONAL ITEMS TO CONSIDER

- Hours of Work Monday through Friday - 7:00 AM to 4:00 PM
 - Saturday, Sunday, and nighttime work requires prior written approval by OMWD
 - No work on District recognized holidays
 - Contractor to obtain all necessary permits per Bid Documents
 - Contract duration: one hundred eighty consecutive calendar days
 - Water Treatment Plant which must stay in operation during construction

8. OMWD CONTACT INFORMATION

Operations Manager

Geoff Fulks
760-632-4647
gfulks@olivenhain.com

DCMWTP Supervisor

Tom Arellano
760-310-2011
tarellano@olivenhain.com

Operations Coordinator

Colette Barrow
760-632-4644
cbarrow@olivenhain.com

9. OPEN AGENDA

- *Contractor laydown area is outside the DCMWTP security gate; Security of all material and equipment storage is the sole responsibility of the Contractor*
- *Per OMWD COVID-19 policy, masks are required, regardless of vaccination status, while indoors*
- *OMWD will provide As-Builts of the standing seam roof over the tank farm via Addendum No.2*

- *The Contractor provided, temporary caustic pump system, will not be required for the entire duration of the project; only while the existing caustic pump skid is being relocated.*
- *Contractor to repair/replace approximately 20 feet of sun damaged dual containment pipe (see attached photo)*



Pre-Bid Meeting Sign-In Sheet

DCMWTP pH System Project
DATE OF PRE-BID MEETING

Name	Title	Company	Phone	Email
MIKE BRYCE	Yard mgr.	Atom Engineering Const.	951-766-2806	estimating@atomengconst.com
ROH WILLIAMS	V.P	THARSOS INC	619-464-1261	RWILLIAMS@THARSOSINC.COM
BRIAN JENNETTE	ESTIMATOR	JENNETTE CO.	858.583.289	BRIANJ@JENNETTECOMPANY.COM
BRANDON LACAP	ENGINEER	DUDEK	760-310-8081	BLACAP@DUDEK.COM
Brian Jurline	Estimator	Alrens Mech	619-816-0103	bjurline@alrensmech.com

