



ADDENDUM NO. 2

TO
CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS
FOR THE
WATER TREATMENT PLANT DISINFECTION IMPROVEMENTS
IN
ANTIOCH, CALIFORNIA
P.W. 246-29

ISSUED
March 16, 2017

This Addendum No. 2 must be signed by the bidder and attached to the CONTRACT PROPOSAL PACKAGE for consideration by the City. The City reserves the right to disregard any proposal, which does not include this Addendum. The City may waive this requirement at its sole discretion.

SEE ATTACHED ADDENDUM ITEMS

Prepared By:

A handwritten signature in black ink, appearing to read "Michael A. Zafer", is written over a horizontal line.

Michael A. Zafer, P.E.

BIDDER'S CERTIFICATION

I acknowledge receipt of this Addendum No. 2 and accept all conditions contained herein.

Bidder

By:

WTP DISINFECTION IMPROVEMENTS (P.W. 246-29)
ADDENDUM NO. 2

March 15, 2017
Page 1 of 5

ADDENDUM NO. 2
TO
CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS
FOR

CITY OF ANTIOCH
WATER TREATMENT PLANT DISINFECTION IMPROVEMENTS (P.W. 246-29)

March 15, 2017

This Addendum No. 2 shall become part of the contract and all provisions of the contract shall apply thereto.

Bidder shall acknowledge receipt of this addendum.

RESPONSES TO REQUESTS FOR INFORMATION (RFIs)

RFI #9

- 1. Specification Section 01140 1.04 tells the contractor to hire an engineer and/or grade T3, T4 or T5 Water Operator if necessary. Who determines if this is necessary, and what is the intent of this section? Are we going to be required to hire an outside consultant for this section?***

Response: The City's Construction Manager and/or Engineer will determine if the Contractor must hire a registered engineer or licensed water treatment operator. The intent of this section is to: 1) require the Contractor to provide a qualified and knowledgeable team to execute the work at an operating drinking water treatment plant; and 2) describe the minimum qualifications with respect to water treatment operations and processes.

Contractors are encouraged to submit project references demonstrating the required qualifications and experience with the specific chemical systems identified in the drawings and specifications. The information shall be included in the Bidder's Statement of Qualifications and Business References.

Per Addendum No. 2, bidders are required to submit the resume(s) of individual(s) employed by the Contractor that will direct work activities and coordinate operational activities with the City's Construction Manager, plant operations and maintenance staff, and/or Engineer. The resume(s) for the individual(s) proposed by the Contractor shall document experience and "required knowledge" of water treatment operations and processes per Section 01140, Paragraph 1.04 and further described in Paragraph 1.05.

Should the City and/or Engineer determine at any time during the project that the Contractor is not demonstrating compliance with the requirements of Section 01140, Paragraph 1.04, the City and/or Engineer will require the Contractor to hire a registered engineer or licensed water treatment operator at no cost to the City.

RFI #10

- 2. Drawings C-1 and C-2 show all chemical lines to be PVC hose inside a PVC containment pipe, except for the 2" pipe that goes from the hypochlorite tanks to the metering pumps. On drawings M-5, M-9, M-10, M-11 the OCL carrier pipes are shown as PVC pipe, not hose. Please clarify.***

Response: See modification to Drawings for Sheets C-1, C-2, M-3, M-5, M-9, M-11, and M-12 for clarification.

- 3. Detail M-206 on drawing MD-2 shows centralizers for supporting PVC hose. According to our PVC supplier, this application is not used and cannot be installed. Can the centralizers be eliminated for PVC hose?**

Response: Centralizers for PVC hose support are eliminated. See modification to Drawings below.

- 4. The piping schedule in Section 15062 calls for all exposed chemical piping to be insulated. Section 15238, Paragraph 2.04.A.6 calls for all exposed containment piping to be clear. Since this piping is insulated, can normal S80 gray containment pipe be used?**

Response: Pipe schedule is included in Section 15052, not Section 15062. Section 15052 requires pipe insulation if the pipe is located outdoors. Section 15238 Paragraph 2.04.A.6 requires clear, Schedule 80 containment pipe and fittings for exposed pipes that are within building. The specification requirements apply to two different pipe locations. No changes are made to the specifications.

- 5. Note 2 on Drawing M-1 calls for heat tracing of the caustic soda feed line. The electrical drawings do not show any heat trace panels or wiring. Please identify the quantity and locations for these heat trace panels.**

Response: Heat trace panels are not required for this application. See modification to Drawings below.

RFI #11

- 6. Heat Tracing Specification 16859 is not found in the bid documents as called out in Pipe Schedule 15052. Please advise.**

Response: Reference is deleted. See modification to Specifications below.

SPECIFICATIONS

DIVISION 15 – MECHANICAL

Section 15052

Table 15052-1, Notes for PVCP Caustic Soda: Delete “Section 16859” and replace with “Sheet M-1”

Table 15052-1, Notes for PVCH Caustic Soda: Delete “Section 16859” and replace with “Sheet M-1”

DRAWINGS

C-1

Delete sheet in its entirety and replace with the attached Sheet C-1.

C-2

Delete sheet in its entirety and replace with the attached Sheet C-2.

M-1

Revise last sentence of Note 2 to read: "PROVIDE NEW HEAT TRACE CABLE ROUTED ALONG EXISTING PIPE. REUSE EXISTING HEAT TRACE CABLE CIRCUIT RECEPTACLE LOCATED IN THE TANK FARM AREA LOCATED BY THE CAUSTIC STORAGE TANKS. REPLACE EXISTING HEAT TRACE CABLE SYSTEM. THE NEW HEAT TRACE CABLE SYSTEM SHALL BE RAYCHEM WINTERGARD PARALLEL SELF REGULATING HEATING CABLE H612 WITH A PLUG-IN POWER CONNECTION KIT OR EQUAL."

M-3

Delete sheet in its entirety and replace with the attached Sheet M-3.

M-5

Delete sheet in its entirety and replace with the attached Sheet M-5.

M-9

Delete sheet in its entirety and replace with the attached Sheet M-9.

M-11

Delete sheet in its entirety and replace with the attached Sheet M-11.

M-12

Delete sheet in its entirety and replace with the attached Sheet M-12.

MD-2

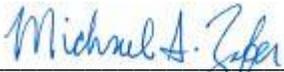
Delete sheet in its entirety and replace with the attached Sheet MD-2.

This Addendum No. 2, (including pages 1 through 5, and all referenced drawings and specifications), shall become part of the Contract and all provisions of the Contract shall apply thereto.

The date and time for submittal of the Bid is not changed.

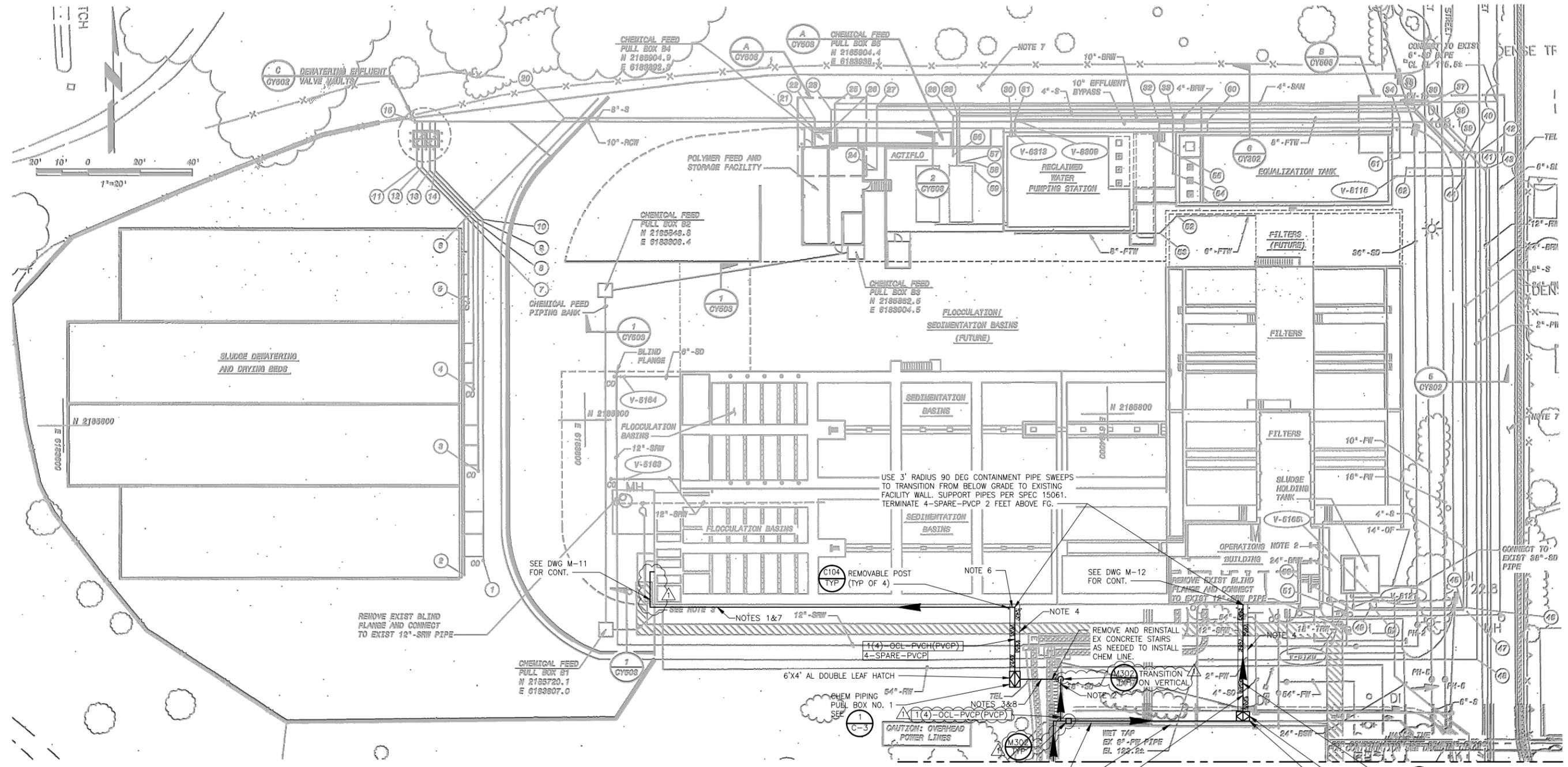
Bidders shall acknowledge receipt of all Addenda by number in the space provided in the Bid Letter on page P-4.

CDM Smith Inc.



Michael A. Zafer, P.E.

C:\cdm\m\109835\109835-001_Addendum-2.dwg rshmo 3/15/17 1:37pm XREFS:CDM_2234_109835-001-109835-M-CSCS 109835-S-CSCS Ca-HYL
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- NOTES:**
1. MOUNT PIPES ON WALL OF EX STRUCTURE APPROXIMATELY 3 FEET +/- AFG AS DIRECTED BY THE CITY.
 2. SUPPORT PIPES ON TOP OF EX CONC RETAINING WALL.
 3. INSTALL PIPES IN EX SLOPED, UNPAVED AREA. RESTORE EX GRADES AFTER PIPE INSTALLATION.
 4. RESTORE AC PAVEMENT TO EX GRADE PER DET C107/TYP AND C207/TYP.
 5. CAP 4" SPARE CONTAINMENT PIPE. AT OTHER END OF TRENCH BRING 4" SPARE CONTAINMENT PIPE ABOVE GROUND AND CAP AT 2' ABOVE FG.

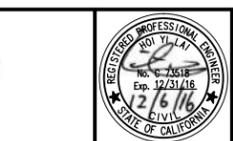
6. PROVIDE DEGASSING VALVE IN CONTAINMENT BOX AT PIPING HIGH POINT. DEGASSING VALVE SHALL BE PER SPEC 11242. CONTAINMENT BOX SHALL BE 2'X2'X12" WITH HINGED LID AND GASKET MOUNT TO WALL WITH 4 EA 1/2"X3 1/2" MIN EMBED HILTI 316SS KWIK BOLT, OR EQUAL. NO SECONDARY CONTAINMENT PIPE NECESSARY WITHIN CONTAINMENT BOX. DGV DRAIN SHALL PENETRATE CONTAINMENT BOX AND EXTEND TO 6 INCHES ABOVE FG.
7. INSULATE PIPES PER SPEC 15120
8. INSTALL 1(4)-OCL ABOVE EXISTING ELECTRICAL DUCT BANKS; WHERE COVER OVER 1(4)-OCL IS LESS THAN 3 FEET, CONCRETE ENCASE PER DETAIL C203 ON CD-2.
9. FOR DOUBLE CONTAINED PIPING WITH CARRIER HOSE, USE 3 FOOT RADIUS PIPE SWEEPS FOR 90 DEGREE BENDS.

SITE PLAN
 1" = 20'

MATCHLINE SEE C-2

3/15/17	MAR	APS	ADDENDUM NO. 2
DESIGNED BY:	HYL	DRAWN BY:	WKT
SHEET CHK'D BY:	HYL	CROSS CHK'D BY:	MAZ
APPROVED BY:	MAZ	DATE:	DECEMBER 2016

CDM Smith
 100 Pringle Ave, Suite 300
 Walnut Creek, CA 94596
 Tel: (925) 933-2900
 Fax: (925) 933-4174



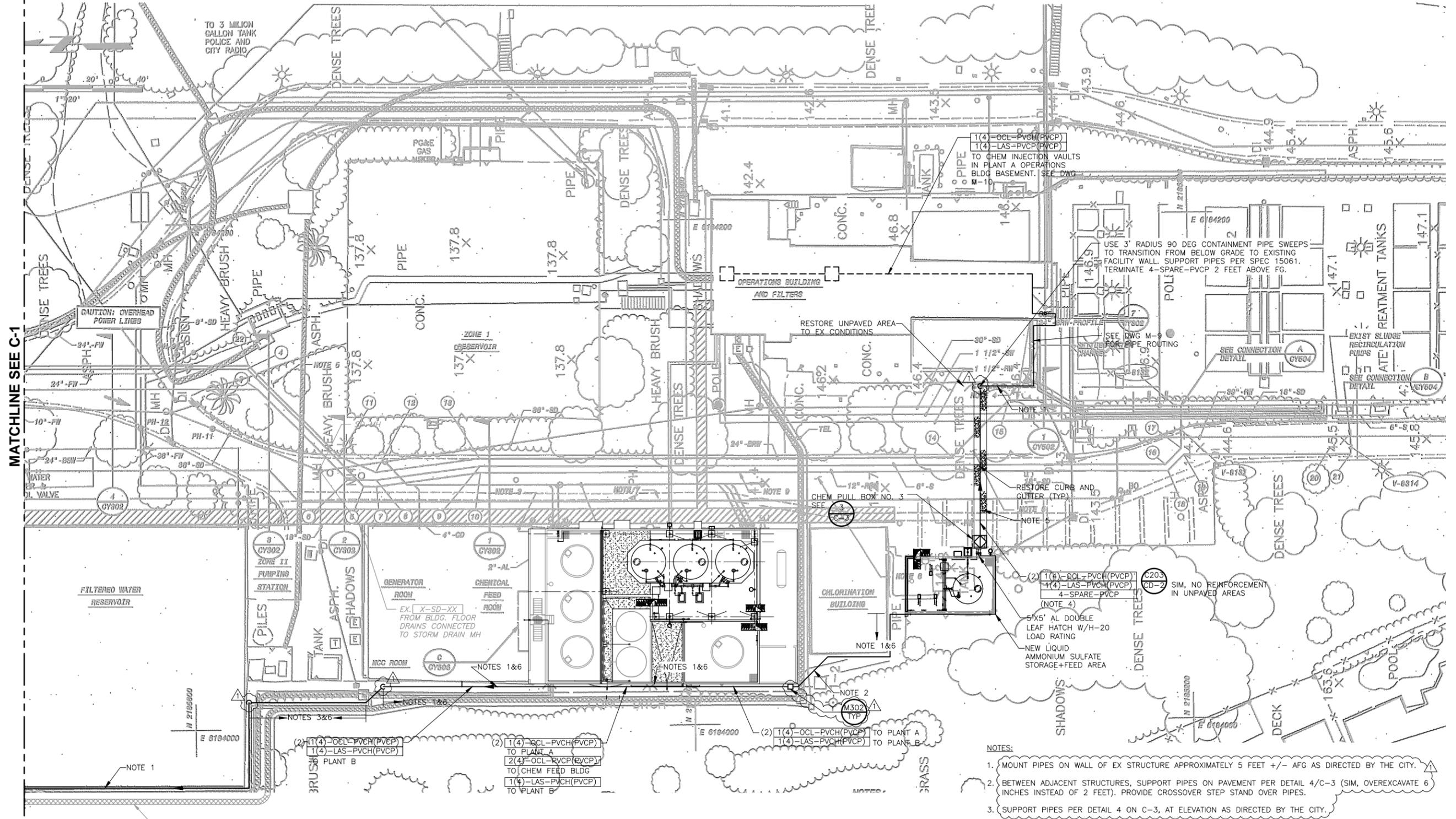
City of Antioch
 Water Treatment Plant
 Disinfection Improvements Project

VERIFY SCALES
 0 1'
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CIVIL SITE PLAN 1

PROJECT NO. P.W. 246-29
 FIGURE NAME 01_Addendum-2.dwg
 SHEET NO.
C-1

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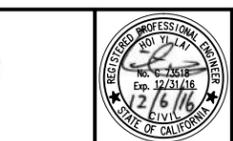


SITE PLAN
 1" = 20'

- NOTES:**
1. MOUNT PIPES ON WALL OF EX STRUCTURE APPROXIMATELY 5 FEET +/- AFG AS DIRECTED BY THE CITY.
 2. BETWEEN ADJACENT STRUCTURES, SUPPORT PIPES ON PAVEMENT PER DETAIL 4/C-3 (SIM. OVEREXCAVATE 6 INCHES INSTEAD OF 2 FEET). PROVIDE CROSSOVER STEP STAND OVER PIPES.
 3. SUPPORT PIPES PER DETAIL 4 ON C-3, AT ELEVATION AS DIRECTED BY THE CITY.
 4. CAP 4" SPARE CONTAINMENT PIPE. AT OTHER END OF TRENCH BRING 4" SPARE CONTAINMENT PIPE ABOVE GROUND AND CAP AT 2' ABOVE FG.
 5. RESTORE AC PAVEMENT TO EX GRADE PER C107/TYP AND C207/TYP.
 6. INSULATE PIPES PER SPEC 15120.
 7. FOR DOUBLE CONTAINED PIPING WITH CARRIER HOSE, USE 3 FOOT RADIUS PIPE SWEEPS FOR 45 AND 90 DEGREE BENDS.

3/15/17	MAR	APS	ADDENDUM NO. 2
DESIGNED BY:	HYL		
DRAWN BY:	WKT		
SHEET CHK'D BY:	HYL		
CROSS CHK'D BY:	MAZ		
APPROVED BY:	MAZ		
DATE:	DECEMBER 2016		

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 Fax: (925) 933-4174



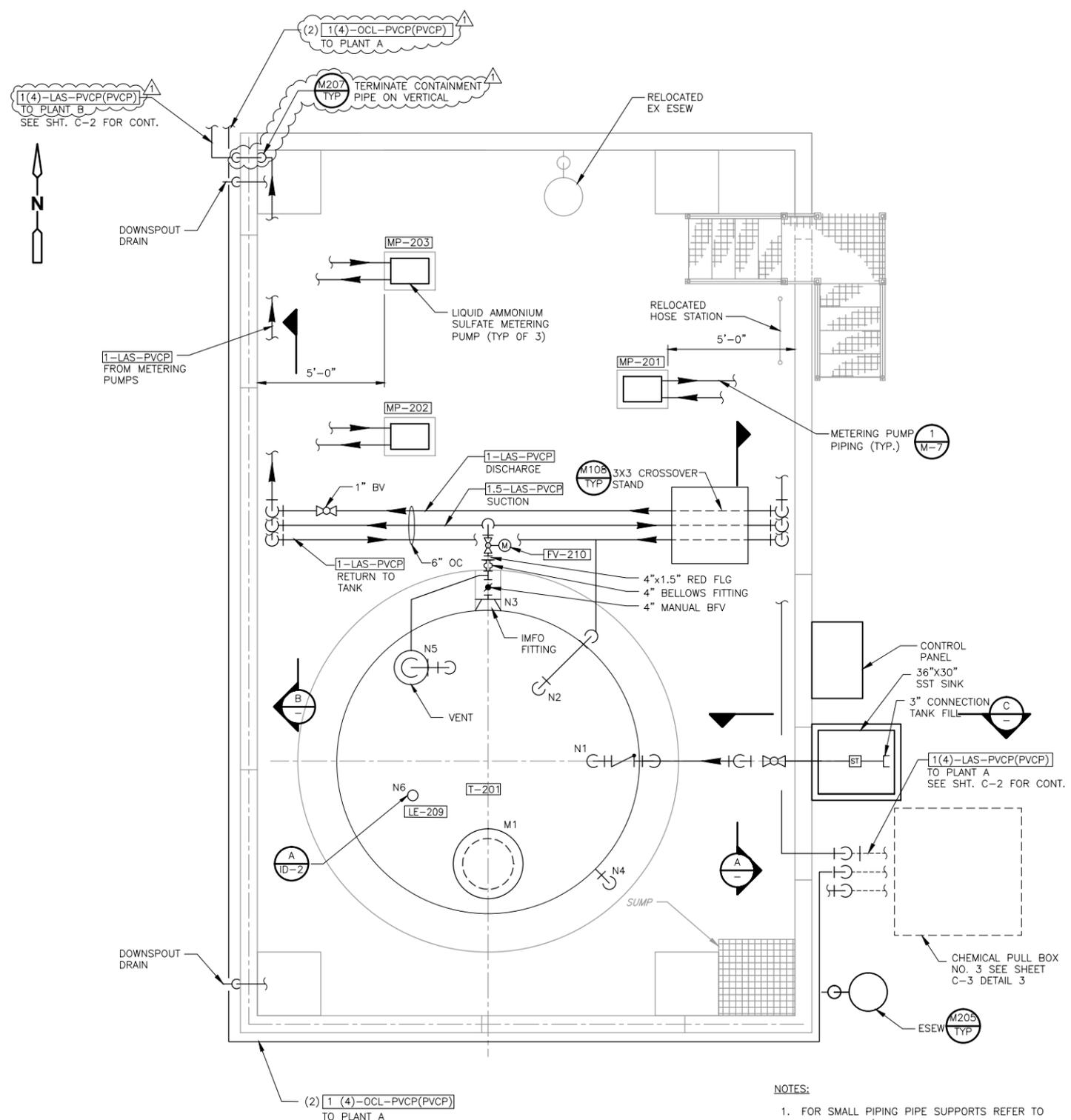
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CIVIL SITE PLAN 2

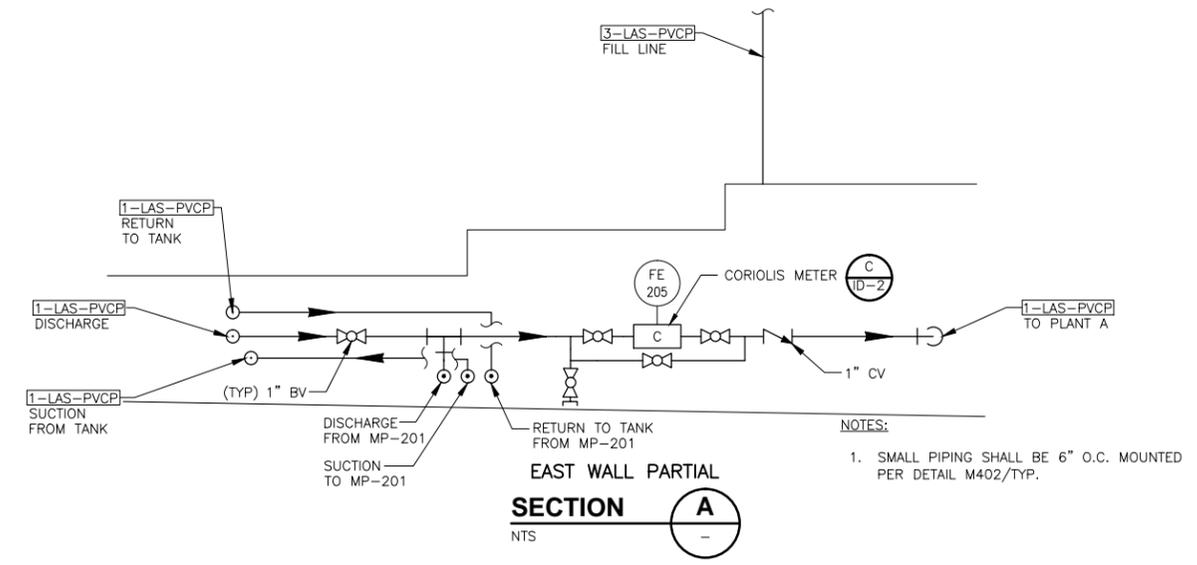
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 FILE:NAME:02_Addendum-2.dwg
 SHEET NO.
C-2

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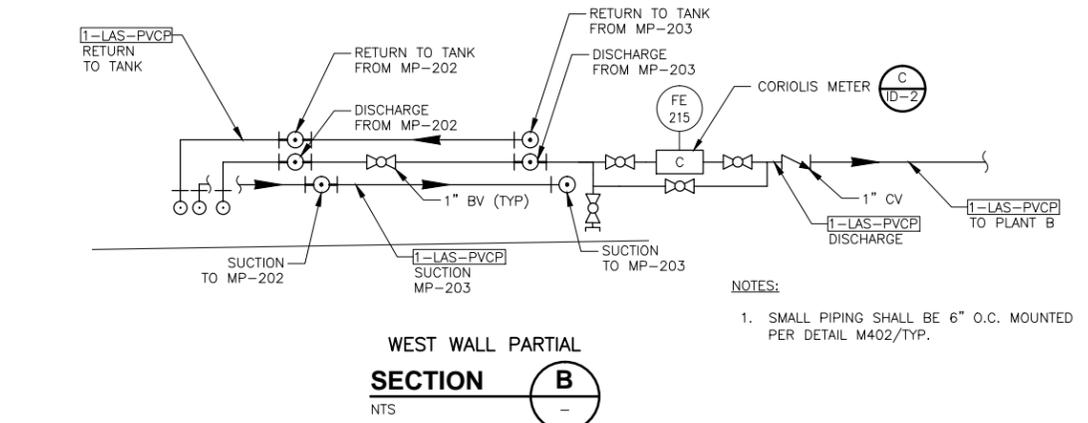


LIQUID AMMONIUM SULFATE FEED & STORAGE AREA
PLAN
 3/8" = 1'-0"

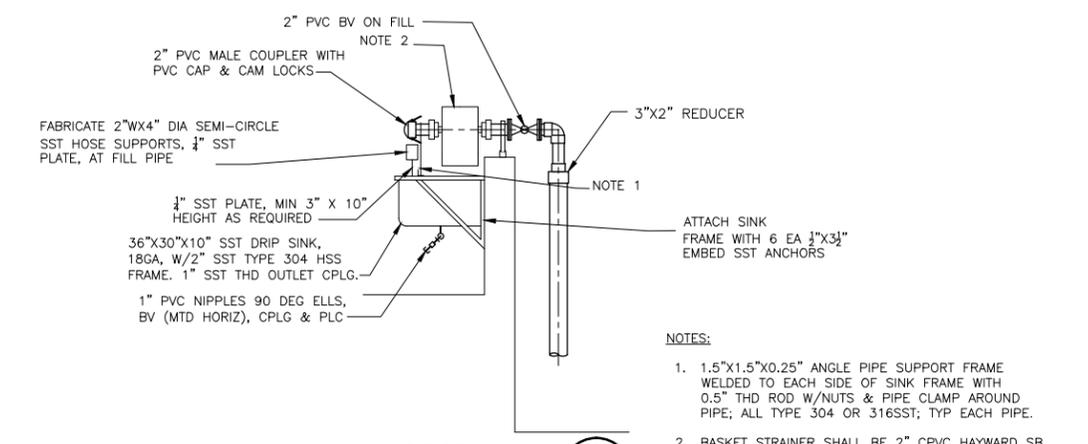
NOTES:
 1. FOR SMALL PIPING PIPE SUPPORTS REFER TO DETAIL M402/TYP. UNO.



EAST WALL PARTIAL SECTION A
 NTS



WEST WALL PARTIAL SECTION B
 NTS



SECTION C
 NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

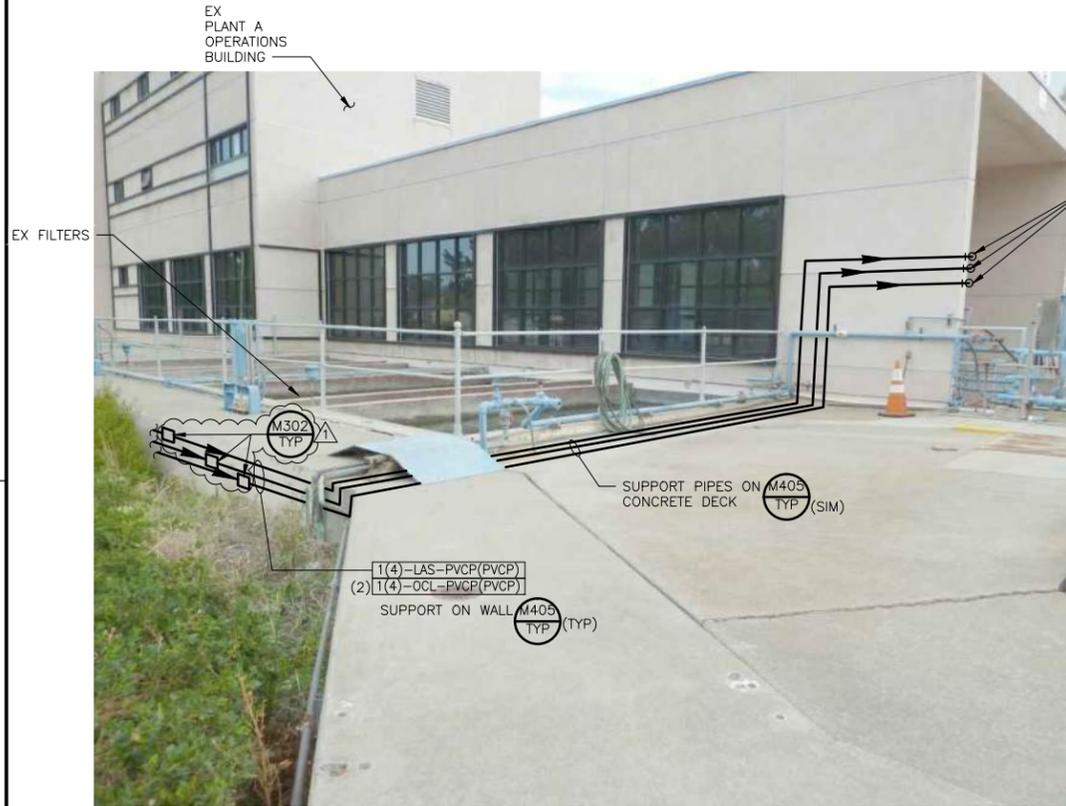
DESIGNED BY: HYL
 DRAWN BY: MAR
 SHEET CHK'D BY: HYL
 CROSS CHK'D BY: MAZ
 APPROVED BY: MAZ
 DATE: DECEMBER 2016

City of Antioch
 Water Treatment Plant
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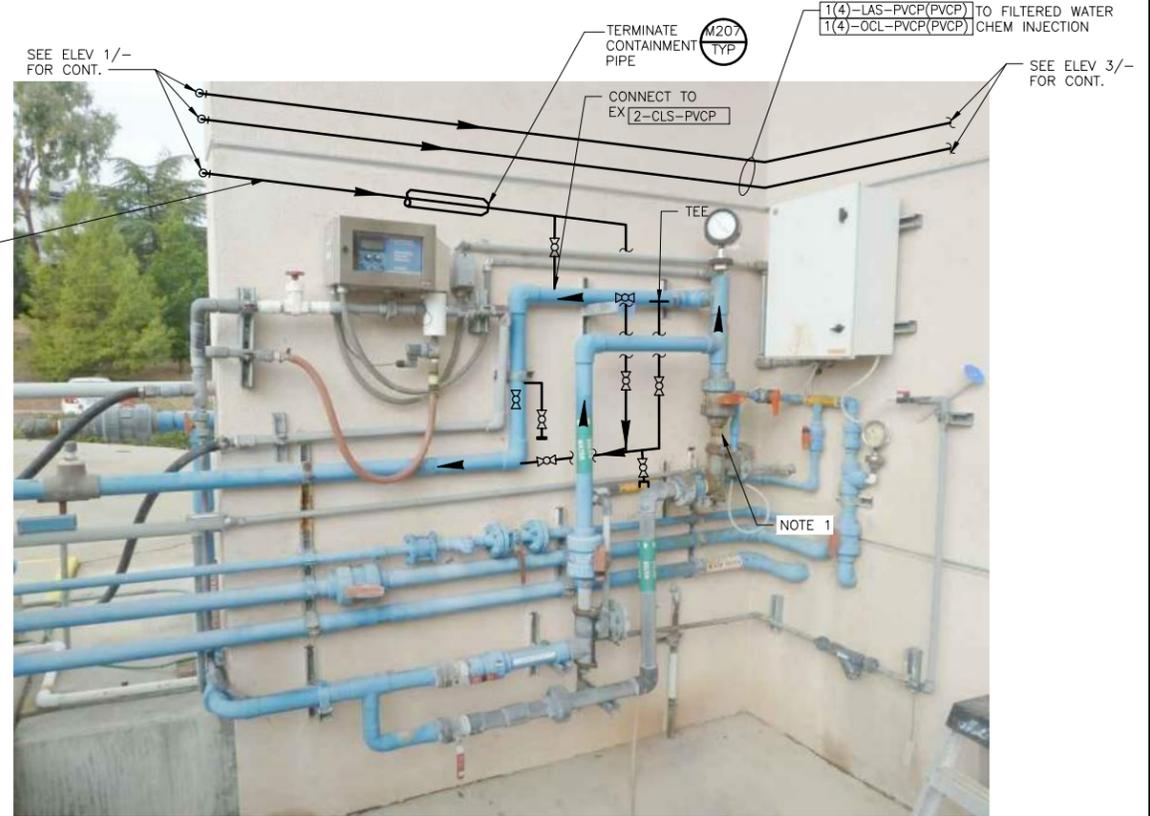
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LIQUID AMMONIUM SULFATE STORAGE AREA PLAN AND SECTIONS

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NEW CHEMICAL PIPING TO PLANT A
ELEVATION 1
 NTS



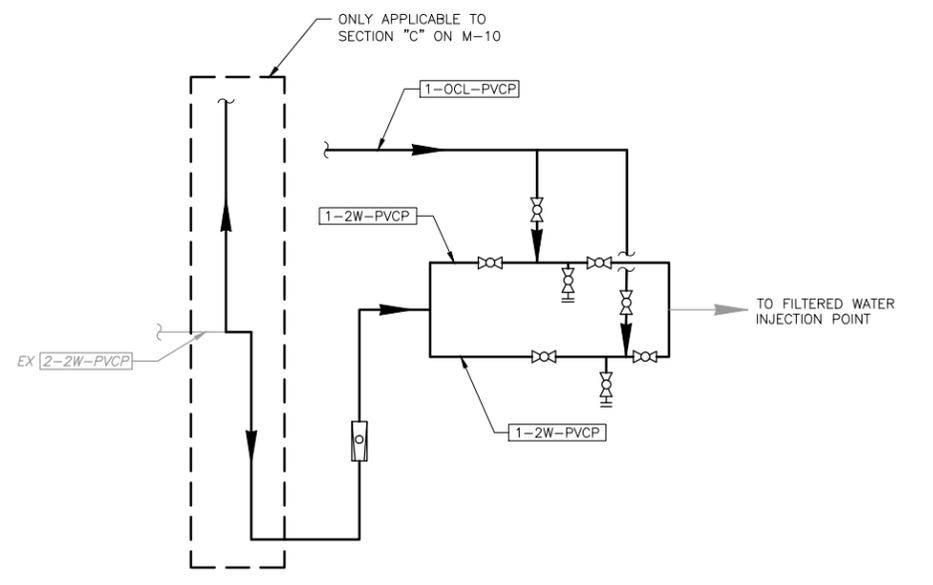
PLANT A RAW WATER OCL INJECTION TIE-IN
ELEVATION 2
 NTS

NOTES:
 1. REPLACE ROTAMETER IN KIND



CHEM PIPING TO FILTERED WATER CHEM INJECTION
ELEVATION 3
 NTS

NOTES:
 1. AFTER PENETRATING INTO BUILDING, ROUTE PIPES VERTICALLY DOWN THROUGH OPENING IN FLOOR SLAB TO BASEMENT. PIPES IN BASEMENT SHALL BE SUPPORTED FROM CEILING.



NEW CHEMICAL PIPING SCHEMATIC
DETAIL 1
 NTS
 M-10

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: HYL
 DRAWN BY: CJR
 SHEET CHK'D BY: HYL
 CROSS CHK'D BY: MAZ
 APPROVED BY: MAZ
 DATE: DECEMBER 2016



City of Antioch
 Water Treatment Plant
 Disinfection Improvements Project

VERIFY SCALES
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PLANT A RAPID MIX & FILTERED WATER CHEMICAL INJECTION MODIFICATIONS 1

PROJECT NO. P.W. 246-29
 00003NAME09_Addendum-2.dwg
 SHEET NO.
M-9



PLANT B RAW WATER OCL PIPING (LOOKING NE)

ELEVATION 1
NTS



PLANT B RAW WATER OCL PIPING TIE-IN (LOOKING SE)

ELEVATION 2
NTS

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SHEET CHK'D BY:	HYL	CROSS CHK'D BY:	MAZ
APPROVED BY:	MAZ	DATE:	DECEMBER 2016
REV. NO.	DATE	DRWN	CHKD
			REMARKS

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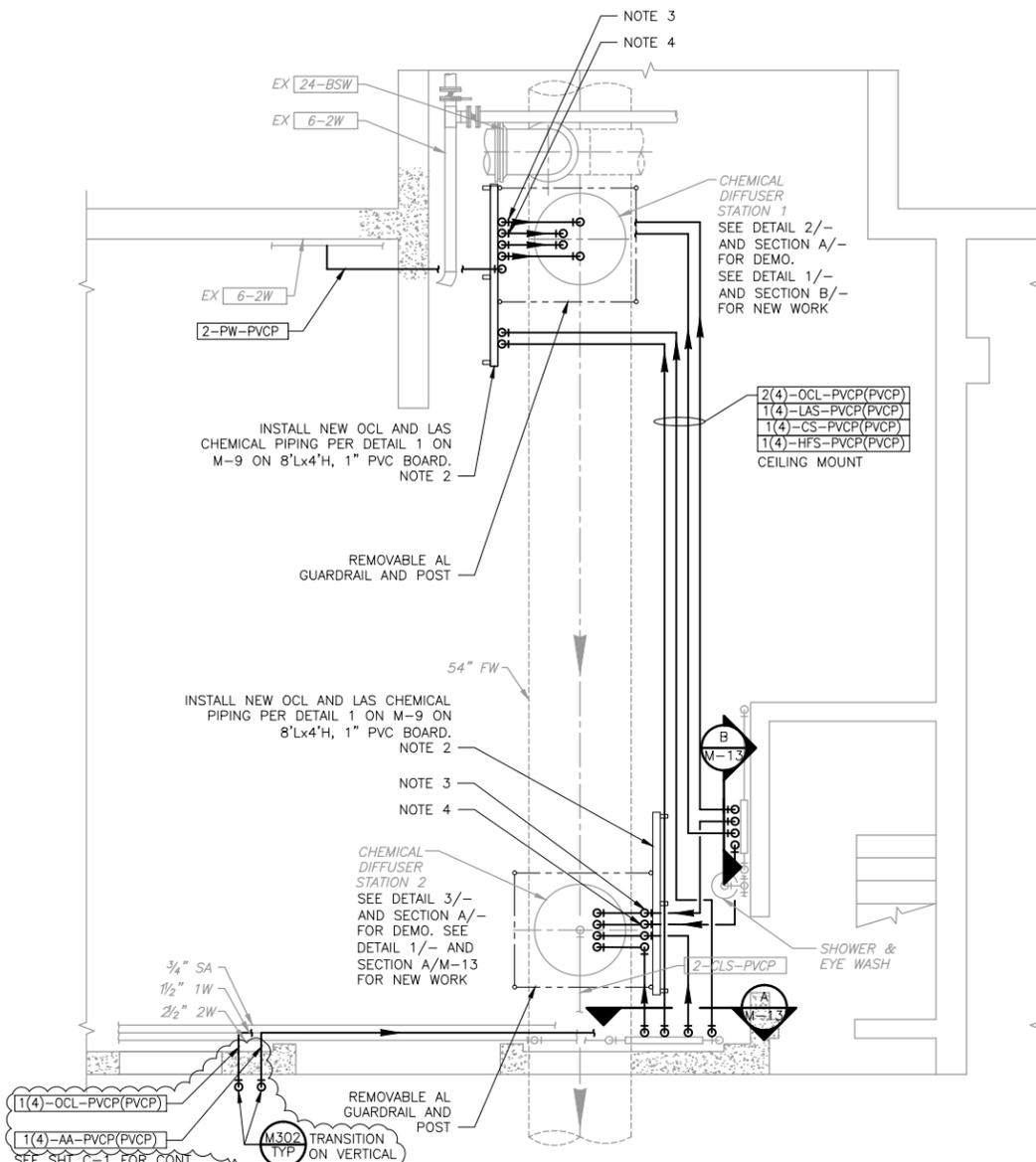
City of Antioch
 Water Treatment Plant
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VERIFY SCALES

**PLANT B RAW WATER AND FILTERED WATER
 CHEMICAL INJECTION MODIFICATIONS 1**

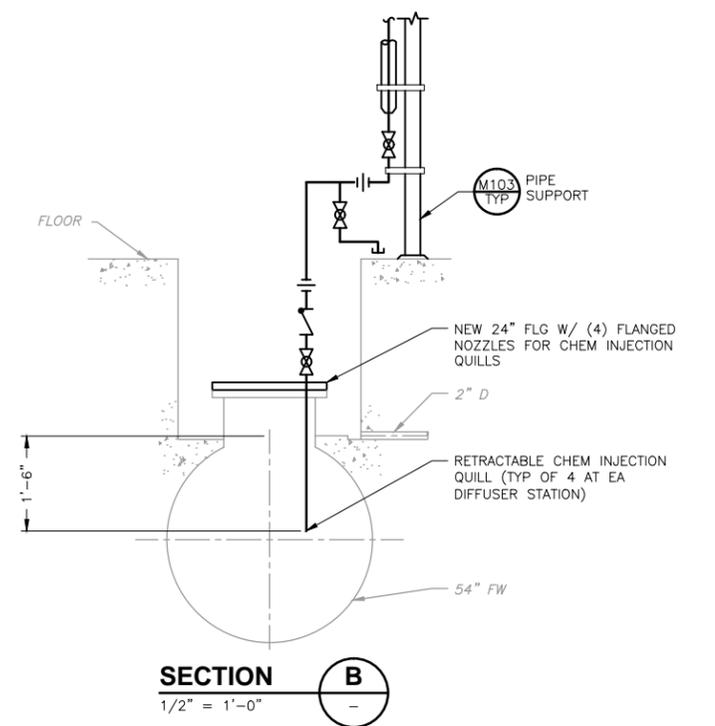
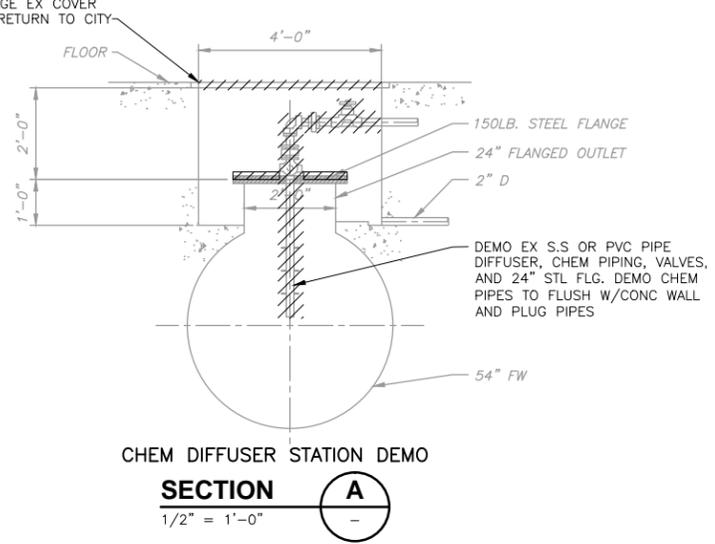
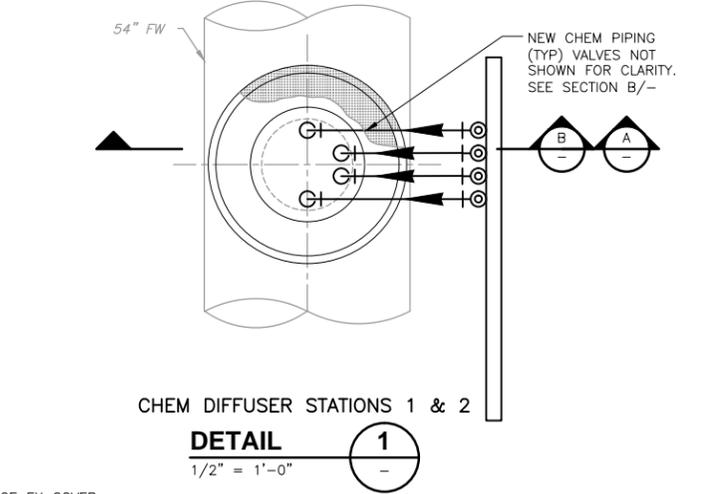
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FILE NAME	D11_Addendum-2.dwg
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PLANT B OPERATIONS BUILDING GROUND FLOOR
PARTIAL PLAN
 1/4" = 1'-0"

- NOTES:
1. NOT ALL EX PIPING AND EQUIPMENT SHOWN.
 2. USE HOT DIPPED GS PREFORMED CHANNEL PIPE SUPPORT FRAME TO SUPPORT PVC BOARD.
 3. MOUNT HFS ON NEW PVC BOARD.
 4. MOUNT CS ON NEW PVC BOARD.
 5. AFTER INSTALLATION OF NEW INJECTION QUILLS, CONNECT EX AMMONIA LINE TO NEW LAS INJECTION QUILL. PROVIDE PIPING AND VALVING NECESSARY TO ALLOW FOR ISOLATION OF EX AMMONIA LINE SUCH THAT LINE CAN BE DEMOLISHED WITHOUT CAUSING DISRUPTION OF NEW LAS INJECTION AFTER COMPLETION OF THE LAS SYSTEM.



CHEM DIFFUSER STATION 1 DEMO
DETAIL 2
 NTS



CHEM DIFFUSER STATION 2 DEMO
DETAIL 3
 NTS

3/15/17	MAR	APS	ADDENDUM NO. 2
DESIGNED BY:	HYL		
DRAWN BY:	CJR		
SHEET CHK'D BY:	HYL		
CROSS CHK'D BY:	MAZ		
APPROVED BY:	MAZ		
DATE:	DECEMBER 2016		

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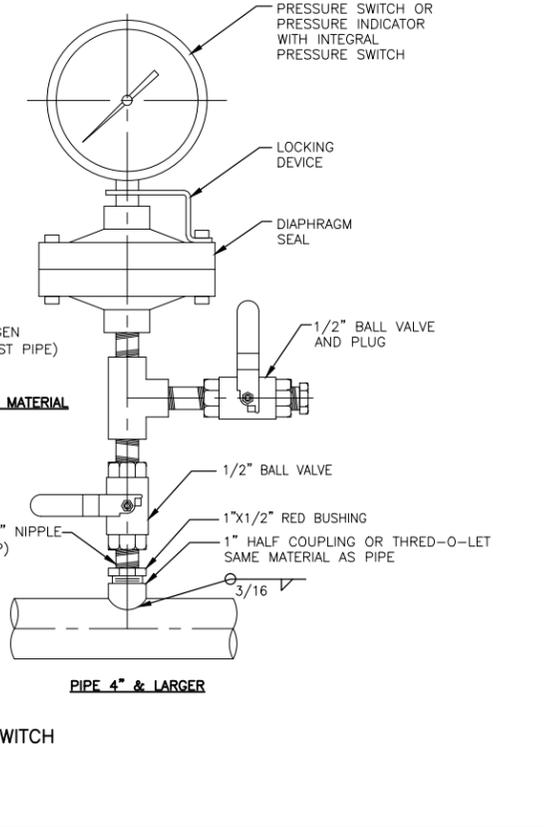
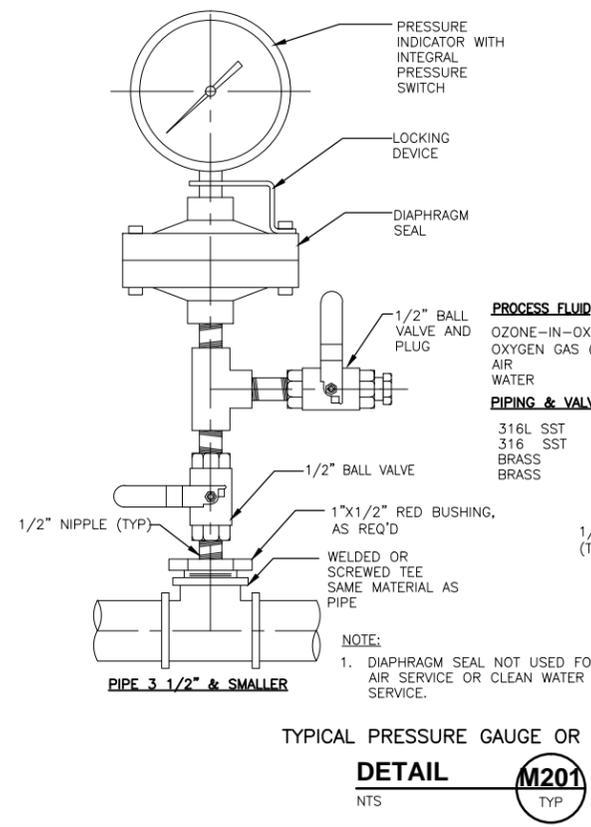
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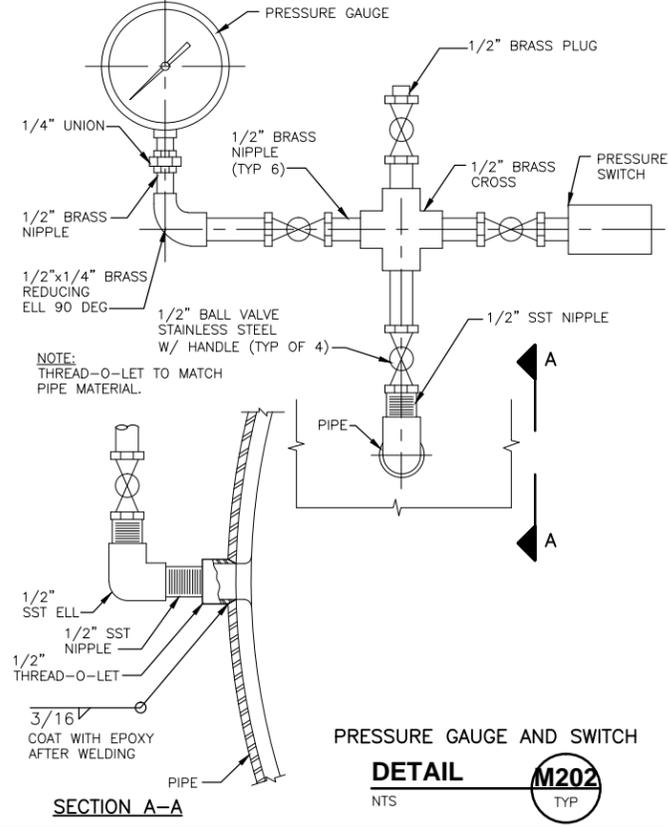
**PLANT B RAW WATER AND FILTERED WATER
 CHEMICAL INJECTION MODIFICATIONS 2**

PROJECT NO.	P.W. 246-29
FILE NAME:	12_Addendum-2.dwg
SHEET NO.	M-12

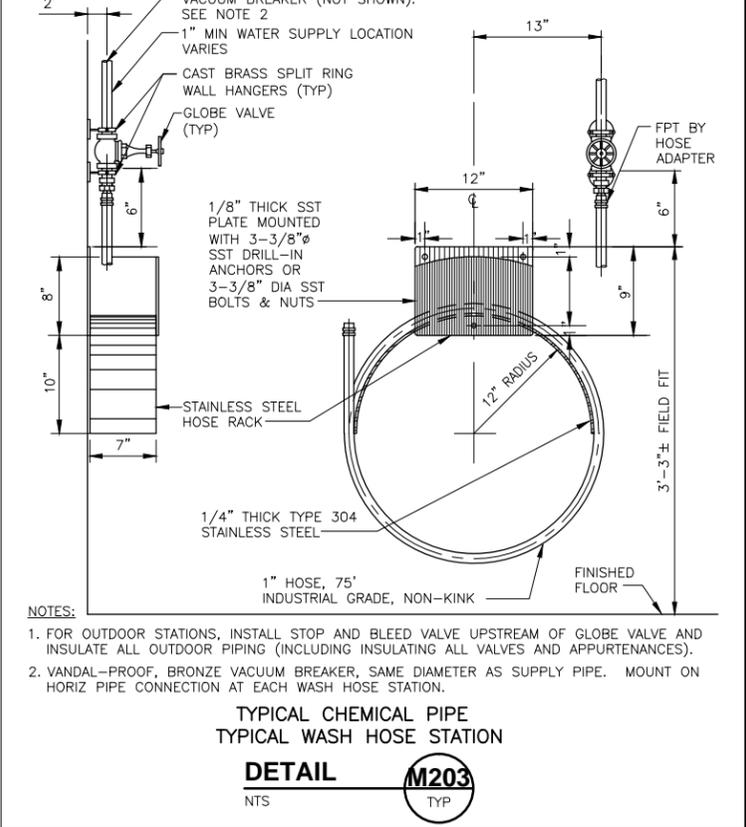
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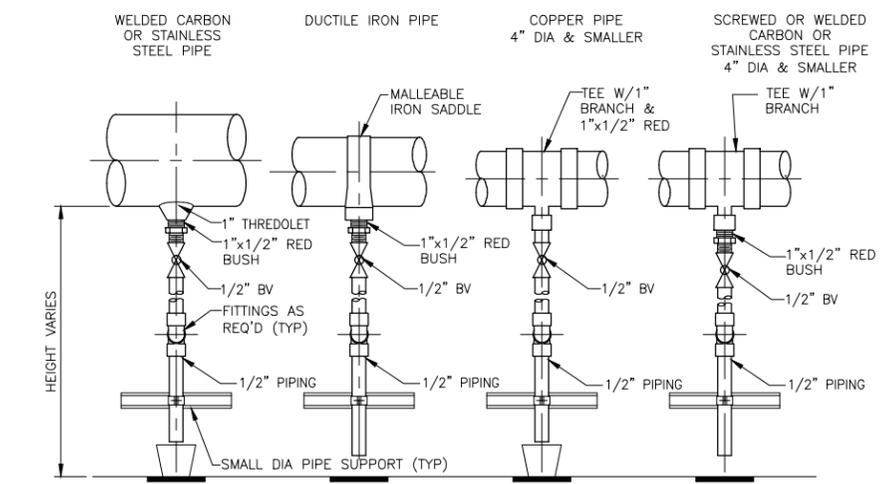
TYPICAL PRESSURE GAUGE OR SWITCH
DETAIL M201
 NTS TYP



PRESSURE GAUGE AND SWITCH
DETAIL M202
 NTS TYP

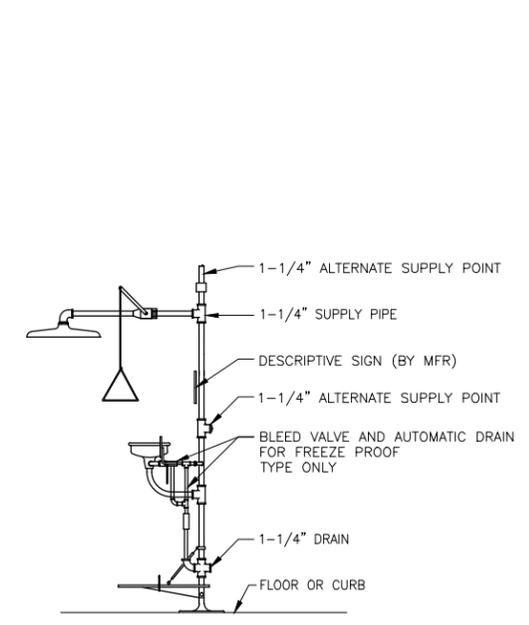


TYPICAL CHEMICAL PIPE
 TYPICAL WASH HOSE STATION
DETAIL M203
 NTS TYP

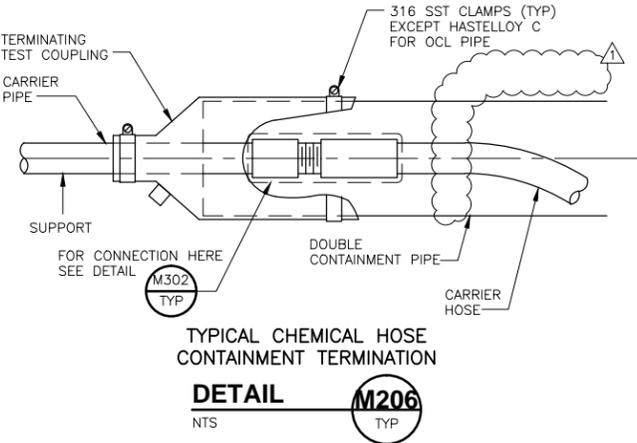


NOTES:
 1. THIS DETAIL IS APPLICABLE TO PIPING CARRYING WATER OR COMPRESSED AIR ONLY. DRAIN INSTALLED AT LOW POINT OF PIPING.
 2. DRAIN PIPE SHALL BE ROUTED ALONG WALLS, COLUMNS, FRAMING, OR SUPPORTS TO DISCHARGE INTO DRAINS OR NEAR FLOOR LEVEL. DRAIN PIPING SHALL BE EXTENDED TO 1\"/>

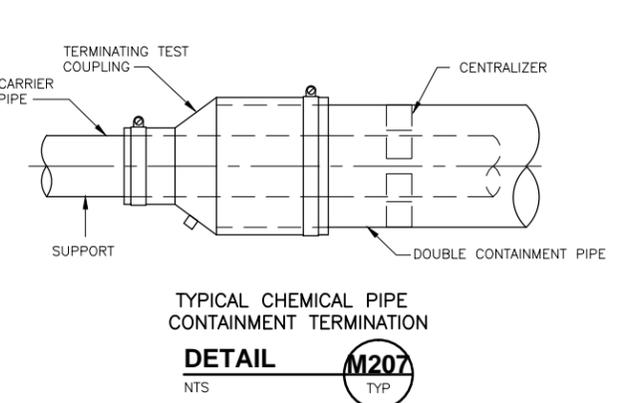
TYPICAL PIPING DRAIN
DETAIL M204
 NTS TYP



TYPICAL EMERGENCY SHOWER
 WITH EYE/FACE WASH
DETAIL M205
 NTS TYP



TYPICAL CHEMICAL HOSE
 CONTAINMENT TERMINATION
DETAIL M206
 NTS TYP



TYPICAL CHEMICAL PIPE
 CONTAINMENT TERMINATION
DETAIL M207
 NTS TYP

3/15/17	MAR	APS	ADDENDUM NO. 2
DESIGNED BY:	HYL		
DRAWN BY:	MAR		
SHEET CHK'D BY:	HYL		
CROSS CHK'D BY:	MAZ		
APPROVED BY:	MAZ		
DATE:	DECEMBER 2016		

CDM Smith
 100 Pringle Ave, Suite 300
 Walnut Creek, CA 94596
 Tel: (925) 933-2900
 Fax: (925) 933-4174

PROFESSIONAL ENGINEER
 No. C 73516
 Exp. 12/31/16
 2/6/16
 CIVIL
 STATE OF CALIFORNIA

City of Antioch
 Water Treatment Plant
 Disinfection Improvements Project

VERIFY SCALES
 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

TYPICAL MECHANICAL DETAILS 2

PROJECT NO. P.W. 246-29
 0003NAME02_Addendum-2.dwg
 SHEET NO.
MD-2