

**RUBIDOUX COMMUNITY SERVICES DISTRICT
CONTRACT DOCUMENTS FOR CONSTRUCTION OF
LELAND J. THOMPSON WATER TREATMENT PLANT BACKWASH SUPPLY PIPELINE**

ADDENDUM NO. 1

PLEASE BE ADVISED:

1. **Reference:** Construction Specifications, Bid Schedule, Pages BD-14 and BD-15:

Replace Pages BD-14 and BD-15 in their entirety with revised Pages BD-14 and BD-15 attached to this Addendum No. 1.

2. **Reference:** Construction Specifications, Special Requirements:

Add Item Nos. 47, 48, and 49 as follows:

47. Excavations in 34th Street Right-of-Way

Work in 34th Street right-of-way (R/W) is under the jurisdiction of the City of Jurupa (see Permits Section in Special Requirements). If desired by Contractor, and if permitted by the City of Jurupa, Contractor may utilize trench plates to protect open excavations in 34th Street R/W in lieu of backfilling and placing temporary asphalt as specified in Specification Section 02300. Trench plates shall be provided in accordance with City of Jurupa encroachment permit requirements.

48. Owner-Furnished Butterfly Valves

The District is furnishing all of the butterfly valves for the project (six total). The valves will be delivered to the project site. Contractor's bid shall be based on the valves arriving between April 1, 2024 and May 15, 2024. Contractor shall offload and store the valves until installed. Contractor shall not receive additional compensation if the valves arrive earlier than April 1, 2024. The valves shall be completely protected from exposure to weather and sunlight at all times. Valves shall be stored with discs in the slightly open position. Contractor shall be solely responsible for the security of the valves while being stored.

49. Bid Item No. 112: Allowance for Unforeseen Conditions

Contract change orders shall be approved by the District prior to billing any amount under Bid Item 112. In the event that no contract change orders are executed by the District, the Contractor shall not be entitled to any payment from said bid item. Bid Item 112 is intended to account for construction activities resulting from unforeseen conditions and thereby required to be performed by the Contractor for successful project completion. This bid item does not replace or circumvent the contract change order process.

3. **Reference:** Construction Specifications, Basic and Technical Specifications, Section 01185, Work Restrictions and Sequence of Work, Part 3.04D, Specific Sequence of Work and Work Restrictions:

Replace Parts 3.04D.3 through 3.04D.5 in their entirety with the following:

3. The District will shut down the iron and manganese filtration system for a period of four (4) hours for Contractor to connect the proposed chlorine solution piping to the existing chlorine solution piping. The proposed chlorine solution piping shall be successfully hydrostatic pressure tested prior to performing connection work.
4. The District will shut down the iron and manganese filtration system for a period of three (3) days (consecutive working days, Tuesday through Thursday) for Contractor to remove the existing abovegrade segments of BWS piping specified to be removed, construct the remainder of the proposed abovegrade BWS piping, install 14" District-furnished magnetic flow meter, and connect to the existing BWS rate of flow control valve. The proposed BWS pipeline shall be successfully hydrostatic pressure tested and disinfected prior to performing final connection to the BWS rate of flow control valve.
5. The District will shut down the iron and manganese filtration system for a period of three (3) days (consecutive working days, Tuesday through Thursday) for Contractor to remove the existing abovegrade high pressure relief (HPR)/raw water bypass (RWB) piping specified to be removed, relocate and modify the existing 16" HPR/RWB valve (hydraulically operated diaphragm valve), and connect the Plant HPR/RWB piping to the existing well blowoff (WBO)/HPR piping.
6. The District will shut down Well No. 8 and the iron and manganese filtration system for a period of three (3) days (consecutive working days, Tuesday through Thursday) for Contractor to construct the Well 8 raw water (RW)/RWB interconnection piping and associated connections to existing piping.
7. Work associated with shutdowns per Paragraphs 4, 5, and 6 above may be performed concurrently provided that the total number of shutdowns and individually specified shutdown durations are not exceeded.
8. Contractor's schedule shall include a three (3)-day allowance for the District to construct/modify the electrical facilities associated with the BWS flow meter and HPR/RWB valve.
9. Contractor's schedule shall include a one (1)-day allowance for the District to startup and commission the District-furnished Contractor-installed magnetic flow meter.

4. **Reference:** Construction Drawings, Drawing G-4, Schedules, Sheet 4:

- A. **Delete** CLS-C from the Pipe Material Schedule.
- B. **Delete** Note No. 6 from the Pipe Material Schedule.

5. **Reference:** Construction Drawings, Drawing G-5, Treatment Process Schematic, Sheet 5:
Replace Drawing G-5 with revised Drawing G-5 attached to this Addendum No. 1.
6. **Reference:** Construction Drawings, Drawing C-1, Site Plan, Sheet 6:
Replace Drawing C-1 with revised Drawing C-1 attached to this Addendum No. 1.
7. **Reference:** Construction Drawings, Drawing C-2, Site Plan, Sheet 7:
A. **Add** Note No. 5 to Detail 1 as follows:
Existing 16" waterline is constructed of CML and asphalt coated Class 250 ductile iron pipe.
B. **Replace** Material, Equipment, and Work Description Item No. 2 in its entirety with the following:
2. 16" Flanged Butterfly Valve (OFCI).
8. **Reference:** Construction Drawings, Drawing M-1, Mechanical Plan, Sheet 8:
Replace Drawing M-1 with revised Drawing M-1 attached to this Addendum No. 1.
9. **Reference:** Construction Drawings, Drawing M-2, Mechanical Sections, Sheet 9:
Replace Drawing M-2 with revised Drawing M-2 attached to this Addendum No. 1.
10. **Bidder Clarifications:**

The following information is provided in response to questions submitted by bidders:

Question 1: Plans call out to utilize same valves but bid items call out to furnish new valves. Is the contractor responsible for furnishing new valves or will we be using the ones currently in operation?

Answer 1: All butterfly valves will be furnished by the District for the project. See Addendum Item No. 7B above and revised Bid Schedules and Drawings provided with this Addendum No. 1.

Question 2: What are the specs on gaskets and bolts for the steel pipe flanges?

Answer 2: Gaskets for steel pipe flanges shall be provided in accordance with Specification Section 15070, Part 2.13. Bolts for steel pipe flanges shall be provided in accordance with Specification Section 15070, Part 2.01D and Pipe Material Schedule Notes on Construction Drawing G-4.

Question 3: What is the existing pipe material we are going to tie-into on 34th st.?

Answer 3: CML and asphalt coated Class 250 ductile iron pipe. See Addendum Item No. 7A above.

Question 4: At what point do we transition to CMLC from the existing material on 34th St. ?

Answer 4: Except where specified otherwise, all new pipe and fittings shall be CML&C carbon steel in accordance with the Pipe Material Schedule on Construction Drawing G-4. For example, the two (2) pipe spools shown on Drawing C-2, Detail 1, are specified to be ductile iron per Material, Equipment, and Work Description No. 10.

Question 5: Who is providing compaction test?

Answer 5: See Special Requirements Item No. 24, Earthwork and Soils Engineering Services by Owner and Contractor, on Page SR-12.

Question 6: Who is providing Survey?

Answer 6: See Special Requirements Item No. 18, Construction Staking by Owner and Contractor, on Page SR-10.

Question 7: Have you guys considered Ductile Iron pipe instead of CLMC pipe?

Answer 7: All new pipe shall be CML&C carbon steel in accordance with the Contract Documents, except where specifically noted otherwise.

Question 8: Can you provide contact at (CLA-VAL) for contractor to talk about pressure relief valve modify?

Answer 8: Jake Corzine, Western Regional Sales Manager, 602-679-2815, jcorzine@cla-val.com
Lance Phillips, Service Sales Manager, 925-519-2154, lphillips@cla-val.com
Cla-Val, 800-942-6326, info@cla-val.com

Question 9: Is there a square footage for bid item 108?

Answer 9: The amount of asphalt concrete pavement required to be removed and replaced is dependent upon the contractor's work related to installation of the proposed piping. As such, no square footage is provided.

Question 10: Does the new pipe need to be disinfected?

Answer 10: Yes. See pipe Materials Schedule on Construction Drawing G-4.

Question 11: Also please clarify what the 2 means on the 2CLS-c Piping?

Answer 11: See Symbols and Legend on Construction Drawing G-3. The number 2 represents the nominal size of the piping in inches.

Question 12: What does the 1 mean on the 1CLS piping? These can be found on drawing C-1 and M-1.

Answer 12: See Symbols and Legend on Construction Drawing G-3. The number 1 represents the nominal size of the piping in inches.

Question 13: Can we get clarity on the tubing 2CLS-C size. The plans do not call out the size of the tubing that will go inside the PVC 2" Pipe. Please advise.

Answer 13: Tubing is no longer required for the project. See Addendum Item No. 4 above and revised Construction Drawing M-1 provided with this Addendum No. 1.

Question 14: Is the contractor required to provide portable toilets?

Answer 14: See Special Requirements Item No. 33, Sanitation, on Page SR-14.

Question 15: What is the source for construction water?

Answer 15: See Special Requirements Item No. 17, Construction Water, on Page SR-10.

Question 16: Specification Section 02300, "Earthwork, Trenching, Bedding, and Backfill", paragraph 3.05.A.6, states the pipe trench work on 34th Street must be backfilled & compacted with 2" minimum thickness of temporary asphalt placed by 5:00 PM every workday. Can traffic coated steel trench plates be installed over the trench flush with the road surface? The shoring will remain in place under the trench plates. This will expedite the pipeline work.

Answer 16: Trench plates are acceptable if permitted by the City of Jurupa. See Addendum Item No. 2 above.

By: Brandon C. Valdez Date: December 12, 2024
 Brandon C. Valadez, RCE No. 78326
 No. 78326
 CIVIL
 STATE OF CALIFORNIA



Bidder hereby acknowledges receipt of Addendum No. 1 and the incorporation thereof in bid proposal for Construction of Leland J. Thompson Water Treatment Plant Backwash Supply Pipeline.

Bidder: _____

By: _____
(Bidder's Authorized Representative)

Date: _____

Title: _____

587-19P65-Add-1

- Attachments:
- Revised Bid Schedule Pages BD-14 and BD-15
 - Revised Drawing G-5
 - Revised Drawing C-1
 - Revised Drawing M-1
 - Revised Drawing M-2

4. Bid Schedule

The undersigned hereby proposes to furnish all labor, materials, equipment and methods necessary for constructing all Work specified, all in strict accordance with these Contract Documents, at the bid prices and the Completion Date set forth hereafter. The undersigned also acknowledges that all bid prices include sales tax and all other applicable taxes and fees. The costs for any work shown or required in the Contract Documents, but not specifically identified as a bid line item are to be included in the related bid line items and no additional compensation shall be due to Contractor for the performance of the Work. The estimated quantities for unit price items are for purposes of comparing bids only and Owner makes no representation that the actual quantities of Work performed will not vary from the estimates. Final payment shall be determined by Owner from measured quantities of Work performed based upon the unit price.

BID SCHEDULE
LELAND J. THOMPSON WATER TREATMENT PLANT
FE/MN FILTRATION SYSTEM BACKWASH SUPPLY PIPELINE

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
101	Furnish contract bonds, project insurance, project permits, and project management.	N/A	L.S.	N/A	\$ _____
102	Mobilization of equipment, materials, and labor.	N/A	L.S.	N/A	\$ _____
103	Furnish trench protection in accordance with Cal/OSHA Standards for all trenches greater than 5' deep.	N/A	L.S.	N/A	\$ _____
104	Furnish, install, and maintain traffic control, including approved traffic control plans, all signs, delineators, arrowboards, flagmen, and all related work, all in accordance with the Contract Documents.	N/A	L.S.	N/A	\$ _____
105	Furnish and install aboveground and belowground backwash supply pipeline, air valve assemblies, fittings, connections, and appurtenances, including modifications to existing piping, valves, and appurtenances, and all related work, as shown on the Construction Drawings, and install Owner-furnished butterfly valve.	N/A	L.S.	N/A	\$ _____
106	Furnish and install aboveground and belowground high pressure relief/raw water bypass piping, air valve assemblies, fittings, connections, and appurtenances, including modifications to existing piping, valves, and appurtenances, and all related work, as shown on the Construction Drawings, and install Owner-furnished butterfly valves.	N/A	L.S.	N/A	\$ _____

**BID SCHEDULE
LELAND J. THOMPSON WATER TREATMENT PLANT
FE/MN FILTRATION SYSTEM BACKWASH SUPPLY PIPELINE**

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
107	Modify existing high pressure relief/raw water bypass valve, including the addition of anti-cavitation trim and orifice plate, and all related work.	N/A	L.S.	N/A	\$ _____
108	Furnish and install belowground Well No. 8 raw water piping, fittings, connections, and appurtenances, including modifications to existing piping and appurtenances, and all related work, as shown on the Construction Drawings, and install Owner-furnished butterfly valve.	N/A	L.S.	N/A	\$ _____
109	Construct pavement repair/replacement.	N/A	L.S.	N/A	\$ _____
110	Provide testing and disinfection of all pipeline facilities.	N/A	L.S.	N/A	\$ _____
111	Furnish and install connection to existing 16" waterline, including all piping, fittings, and appurtenances, and all related work, as shown on the Construction Drawings, and install Owner-furnished butterfly valves.	N/A	L.S.	N/A	\$ _____
112	Allowance for unforeseen conditions.	N/A	L.S.	PRE-SET	\$ <u>25,000.00</u>

TOTAL BID (Sum of Bid Items 101 through 112):

_____ Dollars \$ _____
(words) (figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

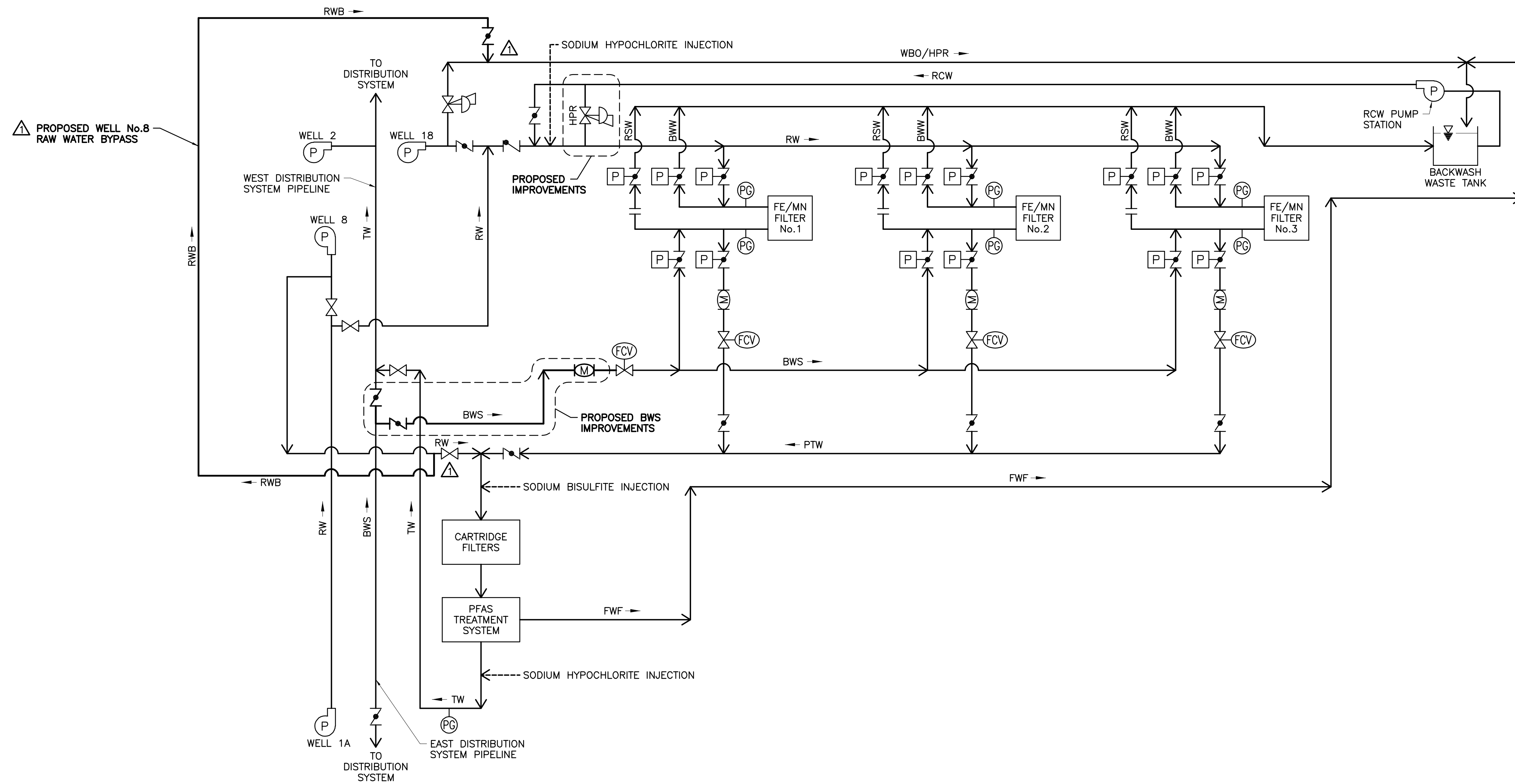
Bidder's Authorized Representative

Signature

Name (Print)

Title (Print)

DWG. NO.: A01-587-19.65.05 FILE NO.: 587-19.66 UPDATE BY: SPK PROJ. ENG.: BCV PLOT DATE: 12/11/23 PLOT TIME: 1:07PM PLOT SCALE: 1=1



- SYMBOLS LEGEND**
- PROCESS FLOW
 - - - - -> CHEMICAL INJECTION
 - (M) FLOW METER
 - (P) PNEUMATICALLY-OPERATED BUTTERFLY VALVE
 - ⊘ MANUAL BUTTERFLY VALVE
 - ⊘ MANUAL GATE VALVE
 - ⊘ SWING CHECK VALVE
 - ⊘ PRESSURE RELIEF/CONTROL VALVE
 - (FCV) MODULATING RATE OF FLOW CONTROL VALVE
 - (PG) PRESSURE GAUGE
 - (P) PUMP
 - || ORIFICE PLATE

- ABBREVIATIONS**
- BWS BACKWASH SUPPLY
 - BWW BACKWASH WASTE
 - FE/MN IRON AND MANGANESE
 - FWF FORWARD FLUSH
 - HPR HIGH PRESSURE RELIEF
 - PFAS PER/POLYFLUOROALKYL SUBSTANCES
 - PTW PRE-TREATED WATER
 - RCW RECYCLE WATER
 - RSW RINSE WATER
 - RW RAW WATER
 - TW TREATED WATER
 - WBO WELL BLOW OFF

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

APPROVED BY THE RUBIDOUX COMMUNITY SERVICES DISTRICT FOR CONSTRUCTION:

 DATE _____ DIRECTOR OF ENGINEERING
 RCE 48798

SYM	REVISIONS	DATE	BY
Δ	ADDENDUM No.1	12/11/23	BCV



KRS KRIEGER & STEWART
 Engineering Consultants
 3602 University Avenue • Riverside, CA 92501
 www.kriegerandstewart.com • 951-684-6900
 APPROVED BY: *Brandon C. Valdez*
 REGISTERED ENGINEER No. 78326 DATE 11/17/23

SCALE	AS SHOWN
FIELD BOOK	N/A
DESIGN	BCV
DRAWN	TMW
CHECKED	BCV

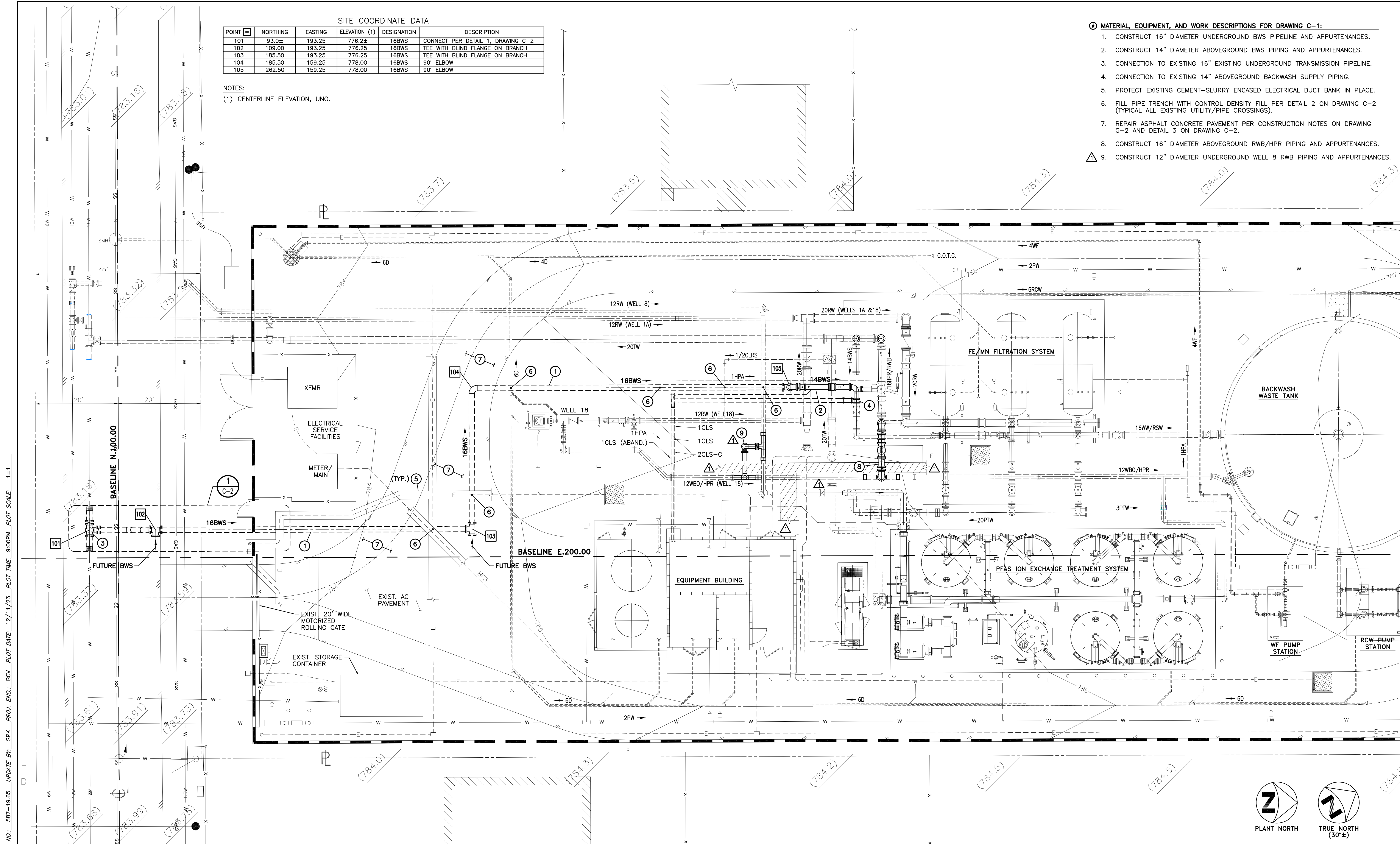
RUBIDOUX COMMUNITY SERVICES DISTRICT
 LELAND J. THOMPSON WATER TREATMENT PLANT
 FE/MN FILTRATION SYSTEM BACKWASH SUPPLY PIPELINE
TREATMENT PROCESS SCHEMATIC

DRAWING
G-5
 5 OF 10 SHEETS
 R.C.S.D. PLAN No.

POINT	NORTHING	EASTING	ELEVATION (1)	DESIGNATION	DESCRIPTION
101	93.0±	193.25	776.2±	16BWS	CONNECT PER DETAIL 1, DRAWING C-2
102	109.00	193.25	776.25	16BWS	TEE WITH BLIND FLANGE ON BRANCH
103	185.50	193.25	776.25	16BWS	TEE WITH BLIND FLANGE ON BRANCH
104	185.50	159.25	778.00	16BWS	90° ELBOW
105	262.50	159.25	778.00	16BWS	90° ELBOW

NOTES:
 (1) CENTERLINE ELEVATION, UNO.

- ① MATERIAL, EQUIPMENT, AND WORK DESCRIPTIONS FOR DRAWING C-1:
1. CONSTRUCT 16" DIAMETER UNDERGROUND BWS PIPELINE AND APPURTENANCES.
 2. CONSTRUCT 14" DIAMETER ABOVEGROUND BWS PIPING AND APPURTENANCES.
 3. CONNECTION TO EXISTING 16" EXISTING UNDERGROUND TRANSMISSION PIPELINE.
 4. CONNECTION TO EXISTING 14" ABOVEGROUND BACKWASH SUPPLY PIPING.
 5. PROTECT EXISTING CEMENT-SLURRY ENCASED ELECTRICAL DUCT BANK IN PLACE.
 6. FILL PIPE TRENCH WITH CONTROL DENSITY FILL PER DETAIL 2 ON DRAWING C-2 (TYPICAL ALL EXISTING UTILITY/PIPE CROSSINGS).
 7. REPAIR ASPHALT CONCRETE PAVEMENT PER CONSTRUCTION NOTES ON DRAWING G-2 AND DETAIL 3 ON DRAWING C-2.
 8. CONSTRUCT 16" DIAMETER ABOVEGROUND RWB/HPR PIPING AND APPURTENANCES.
 9. CONSTRUCT 12" DIAMETER UNDERGROUND WELL 8 RWB PIPING AND APPURTENANCES.



DWG. NO.: 01-587-1965-01 FILE NO.: 587-19.65 UPDATE BY: SPK PROJ. ENG.: BCV PLOT DATE: 12/11/23 PLOT TIME: 9:00PM PLOT SCALE: 1"=10'

NOTE:
 CONTRACTOR SHALL REFER TO "POTHOLE" REQUIREMENTS ON DRAWING G-2. CONSTRUCTION OF PROPOSED UNDERGROUND FACILITIES SHALL NOT COMMENCE UNTIL DISTRICT HAS REVIEWED CONTRACTOR'S POTHOLE DATA.

VERIFY SCALES
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 0 1"

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

APPROVED BY THE RUBIDOUX COMMUNITY SERVICES DISTRICT FOR CONSTRUCTION:

DATE: _____ DIRECTOR OF ENGINEERING
 RCE 48798

SYM	REVISIONS	DATE	BY
ADDENDUM No.1		12/11/23	BCV



KRIEGER & STEWART
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APPROVED BY: *Brandon C. Vally*
 REGISTERED ENGINEER No. 78326 DATE 11/17/23

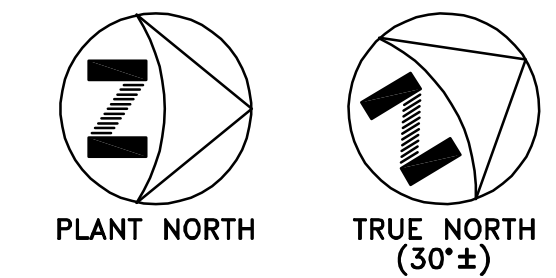
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RUBIDOUX COMMUNITY SERVICES DISTRICT

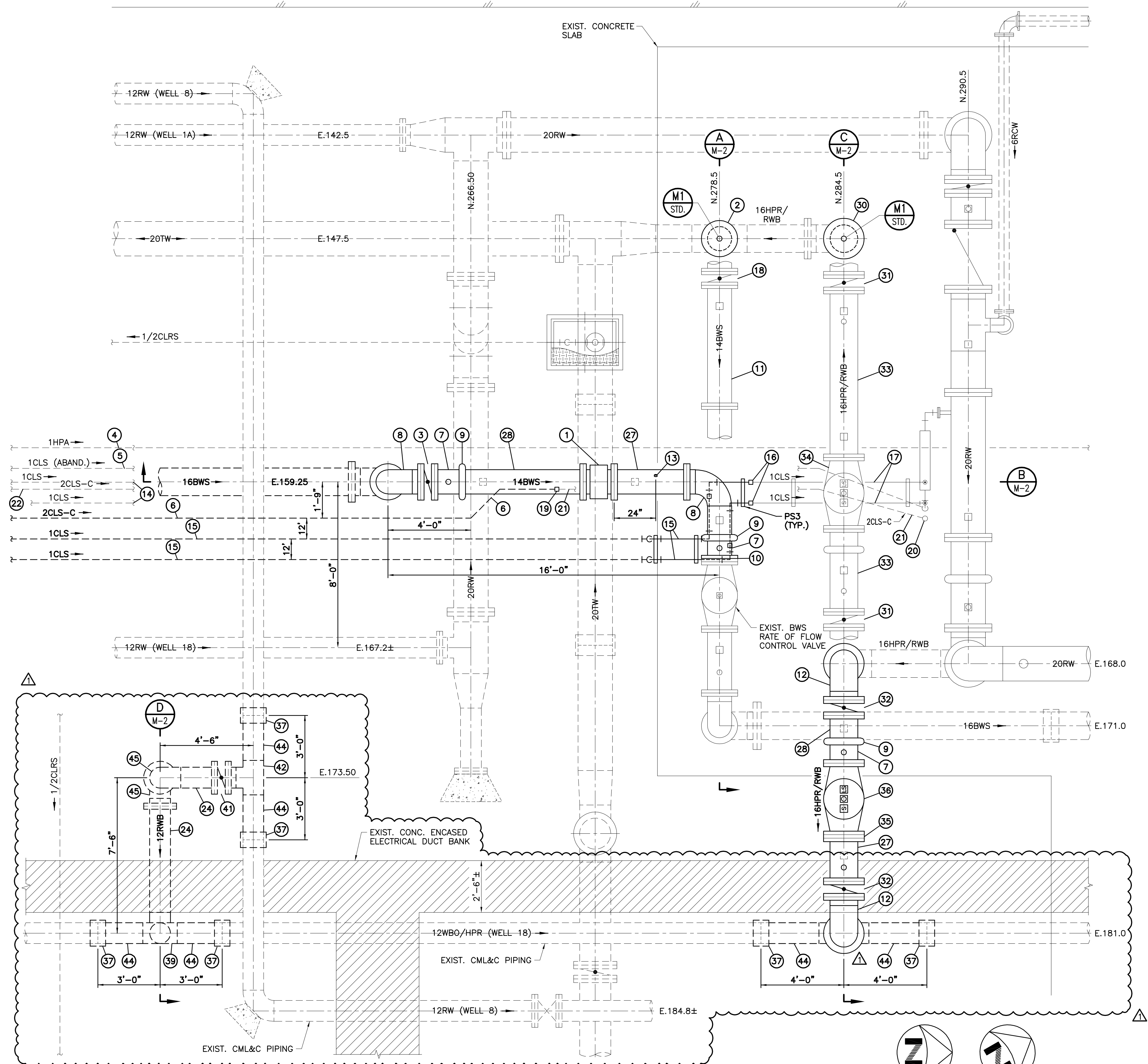
LELAND J. THOMPSON WATER TREATMENT PLANT
 FE/MN FILTRATION SYSTEM BACKWASH SUPPLY PIPELINE

SITE PLAN

DRAWING
C-1
 6 OF 10 SHEETS
 R.C.S.D. PLAN NO.

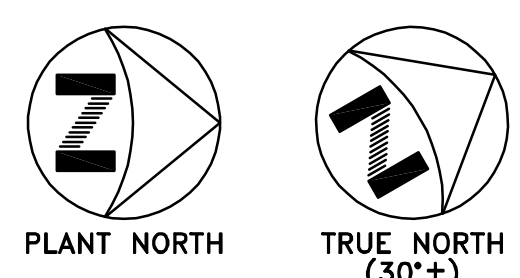


DWG. NO.: M-1-587-19.66_UPDATE BY: SPK_PRCO. ENG.: BCV_PLOT DATE: 12/12/23_PLOT TIME: 12:35PM_PLOT SCALE: 1"=1'
 FILE NO.: M-1-587-19.66_UPDATE BY: SPK_PRCO. ENG.: BCV_PLOT DATE: 12/12/23_PLOT TIME: 12:35PM_PLOT SCALE: 1"=1'



MECHANICAL PLAN

SCALE: 3/8"=1'-0"



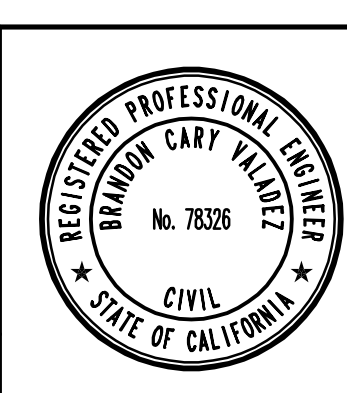
- NOTES:**
- CONTRACTOR SHALL REFER TO "POTHOLE" REQUIREMENTS ON DRAWING G-2. CONSTRUCTION OF PROPOSED UNDERGROUND FACILITIES SHALL NOT COMMENCE UNTIL DISTRICT HAS REVIEWED CONTRACTOR'S POTHOLES DATA.
 - CONTRACTOR SHALL "POTHOLE" THE EXISTING 1HPA, 1CLS, AND 2CLS-C LINES IN A MINIMUM OF TWO (2) LOCATIONS ALONG THE PROPOSED NORTH/SOUTH 16BWS ALIGNMENT SHOWN HEREON.
 - EXISTING ELECTRICAL FACILITIES NOT SHOWN FOR CLARITY.

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

APPROVED BY THE RUBIDOUX COMMUNITY SERVICES DISTRICT FOR CONSTRUCTION:

DATE: _____ DIRECTOR OF ENGINEERING
 RCE 48798

SYMBOL	REVISIONS	DATE	BY
▲	ADDENDUM No.1	12/11/23	BCV



KRIEGER & STEWART
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 www.kriegerandstewart.com • 951-684-6900

APPROVED BY: *Brandon C. Vally*
 REGISTERED ENGINEER No. 78326 DATE 11/17/23

SCALE	3/8"=1'-0"
FIELD BOOK	N/A
DESIGN	BCV/FMN
DRAWN	TMW
CHECKED	BCV

RUBIDOUX COMMUNITY SERVICES DISTRICT

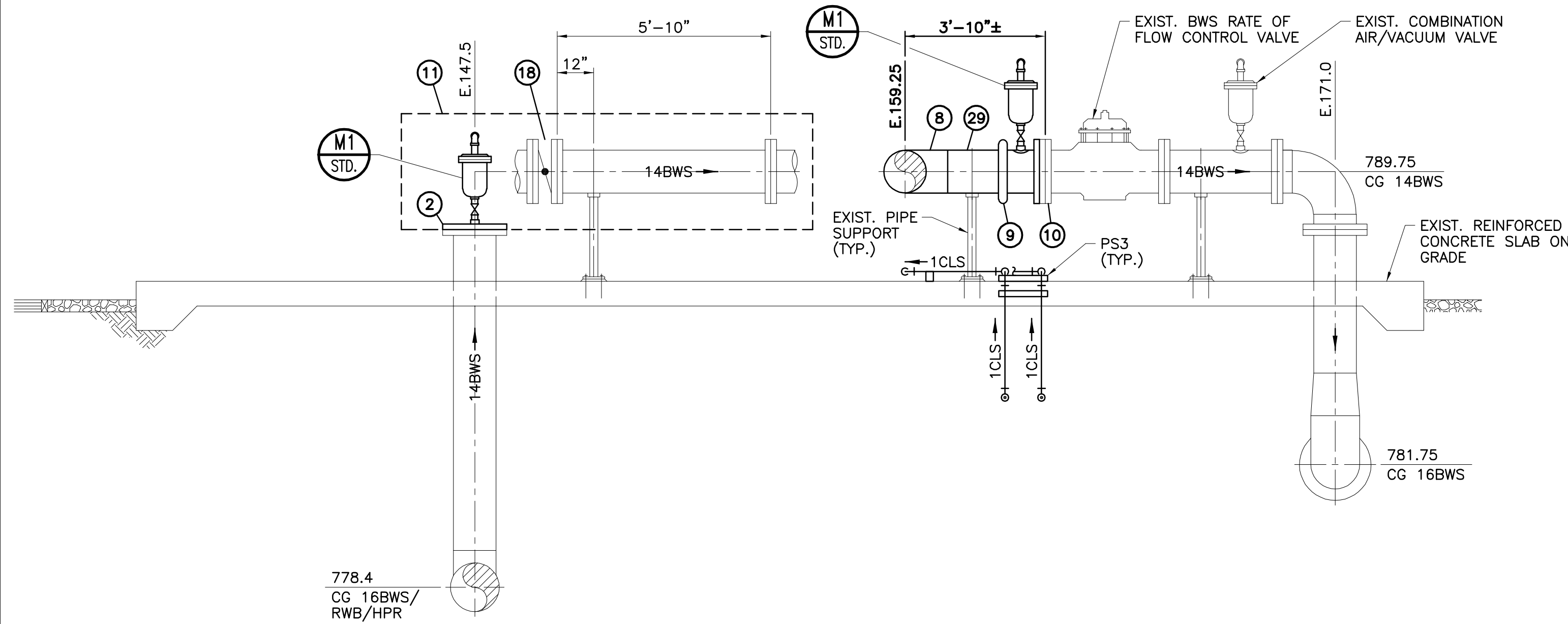
LELAND J. THOMPSON WATER TREATMENT PLANT
 FE/MN FILTRATION SYSTEM BACKWASH SUPPLY PIPELINE

MECHANICAL PLAN

DRAWING
M-1
 8 OF 10 SHEETS
 R.C.S.D. PLAN No.

- ① MATERIAL, EQUIPMENT, AND WORK DESCRIPTIONS FOR DRAWINGS M-1 AND M-2:**
- INSTALL FLANGED MAG METER FURNISHED BY DISTRICT (OFCI). DISTRICT TO CONSTRUCT REQUIRED ELECTRICAL FACILITIES. CONNECT TO EXISTING PLANT CONTROL PANEL, CONFIGURE METER, AND COMMISSION METER.
 - INSTALL 14" BLIND FLANGE ON RISER. BLIND FLANGE SHALL BE DRILLED FOR 1" DIA. 3000 LB. HALF COUPLING WELDED TO CENTER OF BLIND FLANGE.
 - 14" FLANGED BUTTERFLY VALVE (OFCI).
 - PROTECT EXISTING 1HPA PIPING IN PLACE.
 - REMOVE AND DISPOSE OF EXISTING ABANDONED 1CLS AS REQUIRED.
 - CONSTRUCT 2CLS-C PIPING. SEE DRAWING C-1 FOR CONTINUATION. 2CLS-C PIPING SCH. 40 PVC CONDUIT WITH LONG RADIUS BENDS INSTALLED WITH A CONTINUOUS NYLON PULL ROPE.
 - FLANGED x GROOVED END SPOOL, LENGTH AS REQUIRED PLUS 6" CUT-TO-FIT, SHIP FLANGE LOOSE AND FIELD WELD TO REQUIRED LENGTH.
 - 14" SHORT RADIUS 90° ELBOW (FLG x FLG).
 - GROOVED COUPLING, VICTAULIC STYLE 77, OR EQUAL.
 - CONNECT TO EXISTING 14" BACKWASH SUPPLY PIPING.
 - REMOVE AND DISPOSE OF EXISTING 14" FLANGED BUTTERFLY VALVE, 90° ELBOW, 14" STD. WT. STEEL SPOOL, PROPELLER FLOW METER, AIR VALVE ASSEMBLY, AND PIPE SUPPORT. GRIND PIPE SUPPORT ANCHOR BOLTS FLUSH WITH CONCRETE.
 - 16" SHORT RADIUS 90° ELBOW (FLG x FLG).
 - 1 1/2" COUPLING PER STANDARD DETAIL M2 WITH DIELECTRIC ISOLATION BUSHING, 1" STAINLESS STEEL BALL VALVE, HEX NIPPLE, AND THREADED PLUG. ORIENT COUPLING 45° ABOVE HORIZONTAL. SEE PLAN FOR ACTUAL ORIENTATION.
 - REMOVE AND DISPOSE OF EXISTING (ACTIVE) 1" SCH. 80 CPVC CLS PIPING.
 - CONSTRUCT 1CLS PIPING. SEE DRAWING C-1 FOR CONTINUATION.
 - 1" SCH. 80 CPVC COUPLING.
 - PROTECT EXISTING (ACTIVE) EXPOSED CLS PIPING AND APPURTENANCES IN PLACE.
 - REMOVE AND DISPOSE OF EXISTING 14" FLANGED BUTTERFLY VALVE.
 - CONNECT TO EXISTING 2CLS-C PIPING.
 - REMOVE EXISTING TUBING/HOSES (2 TOTAL) FROM 2CLS-C PIPING.
 - PROTECT EXISTING 2CLS-C IN PLACE.
 - REMOVE AND DISPOSE OF EXISTING (ACTIVE) 2" PVC CONTAINMENT PIPING AND TUBING.
 - PIPE SUPPORT CONCRETE PAD SHALL BE 18" THICK x 24" SQUARE AND PROJECT 3" ABOVE ADJACENT FINISHED GRADE.
 - FLG x PE SPOOL, LENGTH AS REQUIRED PLUS 6" CUT-TO-FIT, SHIP FLANGE LOOSE AND FIELD WELD TO REQUIRED LENGTH.
 - 16" x 14" REDUCER (PE x PE).
 - 16" SHORT RADIUS 90° ELBOW (FLG x PE).
 - FLG x FLG SPOOL, LENGTH AS REQUIRED.
 - FLG x GROOVED ENG SPOOL, LENGTH AS REQUIRED.
 - PE x GROOVED END SPOOL, LENGTH AS REQUIRED.
 - INSTALL 16" BLIND FLANGE ON RISER. BLIND FLANGE SHALL BE DRILLED FOR 1" DIA. 3000 LB. HALF COUPLING WELDED TO CENTER OF BLIND FLANGE.
 - REMOVE AND DISPOSE OF EXISTING 16" FLANGED BUTTERFLY VALVE.
 - 16" FLANGED BUTTERFLY VALVE (OFCI).
 - REMOVE AND DISPOSE OF EXISTING 16" FLANGED BUTTERFLY VALVES, 90° ELBOWS, 16" STD. WT. STEEL SPOOLS, AIR VALVE ASSEMBLIES, VICTAULIC COUPLING, AND PIPE SUPPORTS. RELOCATE EXISTING 16" FLANGED PRESSURE RELIEF VALVE (SEE ITEM 34). GRIND PIPE SUPPORT ANCHOR BOLTS FLUSH WITH CONCRETE.
 - RELOCATE AND MODIFY EXISTING 16" FLANGED PRESSURE RELIEF VALVE (SEE ITEM 36).
 - MODEL X55A ORIFICE PLATE AS MANUFACTURED BY CLA-VAL WITH 7.0" DIA. BORE.
 - RELOCATED EXISTING 16" FLANGED PRESSURE RELIEF VALVE. CONTRACTOR SHALL FURNISH THE SERVICES OF THE VALVE MANUFACTURER (CLA-VAL) TO ADD ANTI-CAVITATION TRIM TO THE EXISTING VALVE, MODIFY THE EXISTING PILOTRY AS REQUIRED, AND ASSIST WITH INSTALLATION AND COMMISSIONING OF THE VALVE. DISTRICT TO CONSTRUCT REQUIRED ELECTRICAL FACILITIES AND CONNECT TO EXISTING PLANT CONTROL PANEL.
 - BUTT-STRAP WITH HANDHOLES PER DISTRICT STD. DWG. W1220. CONTRACTOR SHALL REMOVE CEMENT MORTAR COATING FROM EXISTING CML&C PIPING AND REPAIR PER SPECIFICATION REQUIREMENTS.
 - 16" x 12" REDUCER (PE x PE).
 - 12" x 12" x 12" TEE (PE x PE x PE).
 - CONNECT TO EXISTING 16" RAW WATER BYPASS/HIGH PRESSURE RELIEF PIPING.
 - 12" FLANGED BUTTERFLY VALVE (OFCI). PROVIDE "NORMALLY CLOSED" VALVE BOX PER DISTRICT STD. DWG. W1040.
 - 12" x 12" x 12" TEE (PE x PE x FLG).
 - 12" SHORT RADIUS 90° ELBOW (PE x PE).
 - PE x PE SPOOL, LENGTH AS REQUIRED.
 - 12" SHORT RADIUS 90° ELBOW (FLG x PE).

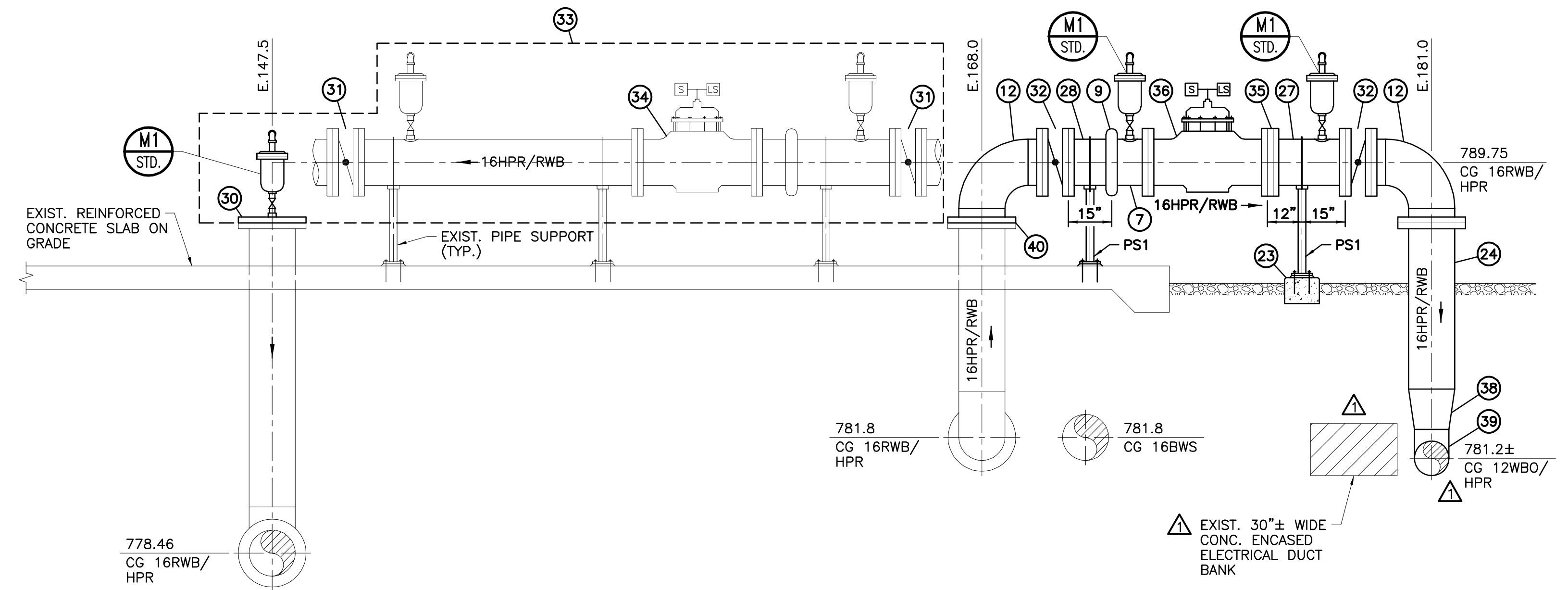
DWG. NO.: M11-587-1965.MD FILE NO.: 587-19.66 UPDATE BY: SPK PROJ. ENG.: BCY PLOT DATE: 12/12/23 PLOT TIME: 12:37PM PLOT SCALE: 1=1



SECTION

SCALE: 3/8"=1'-0"

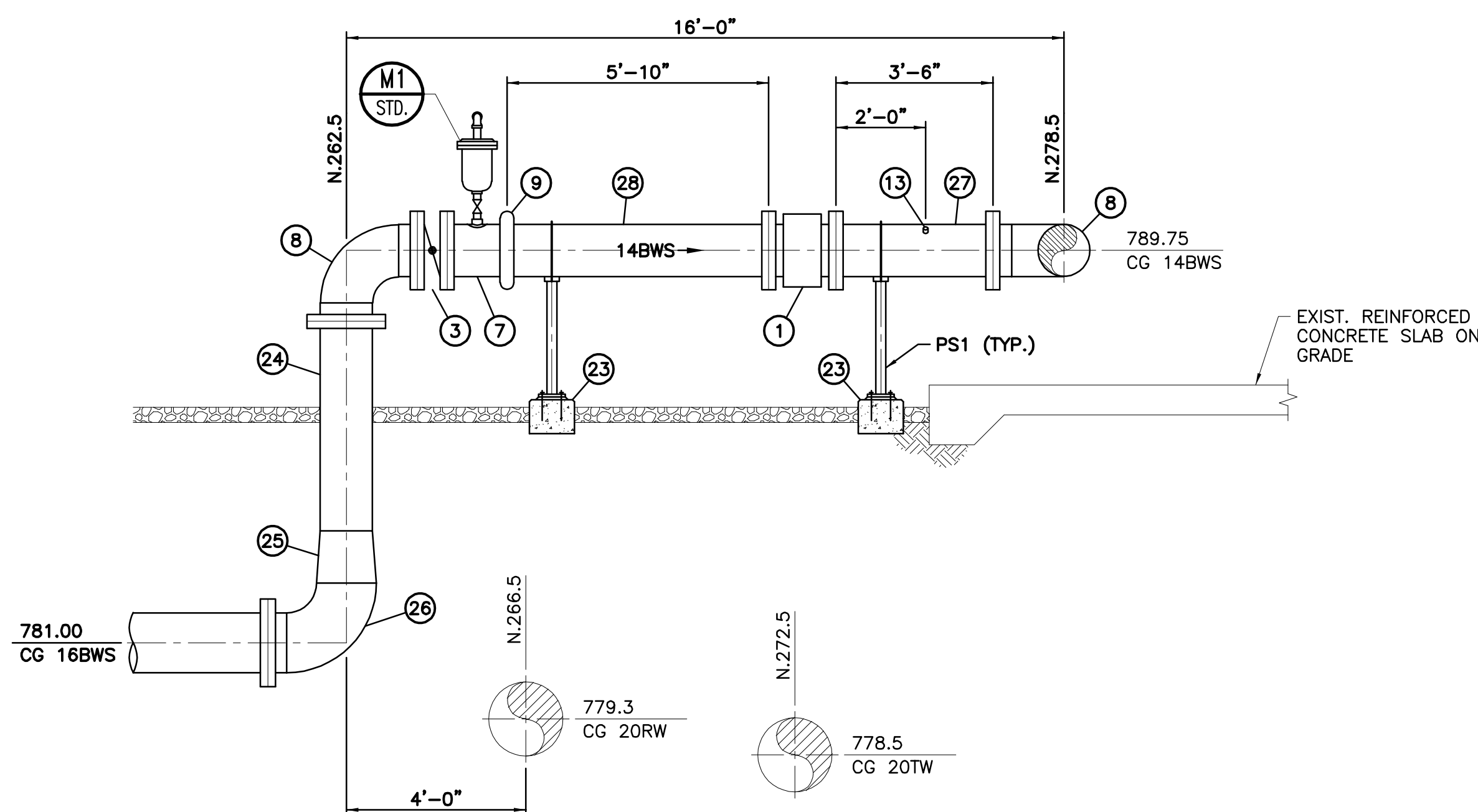
A
M-1



SECTION

SCALE: 3/8"=1'-0"

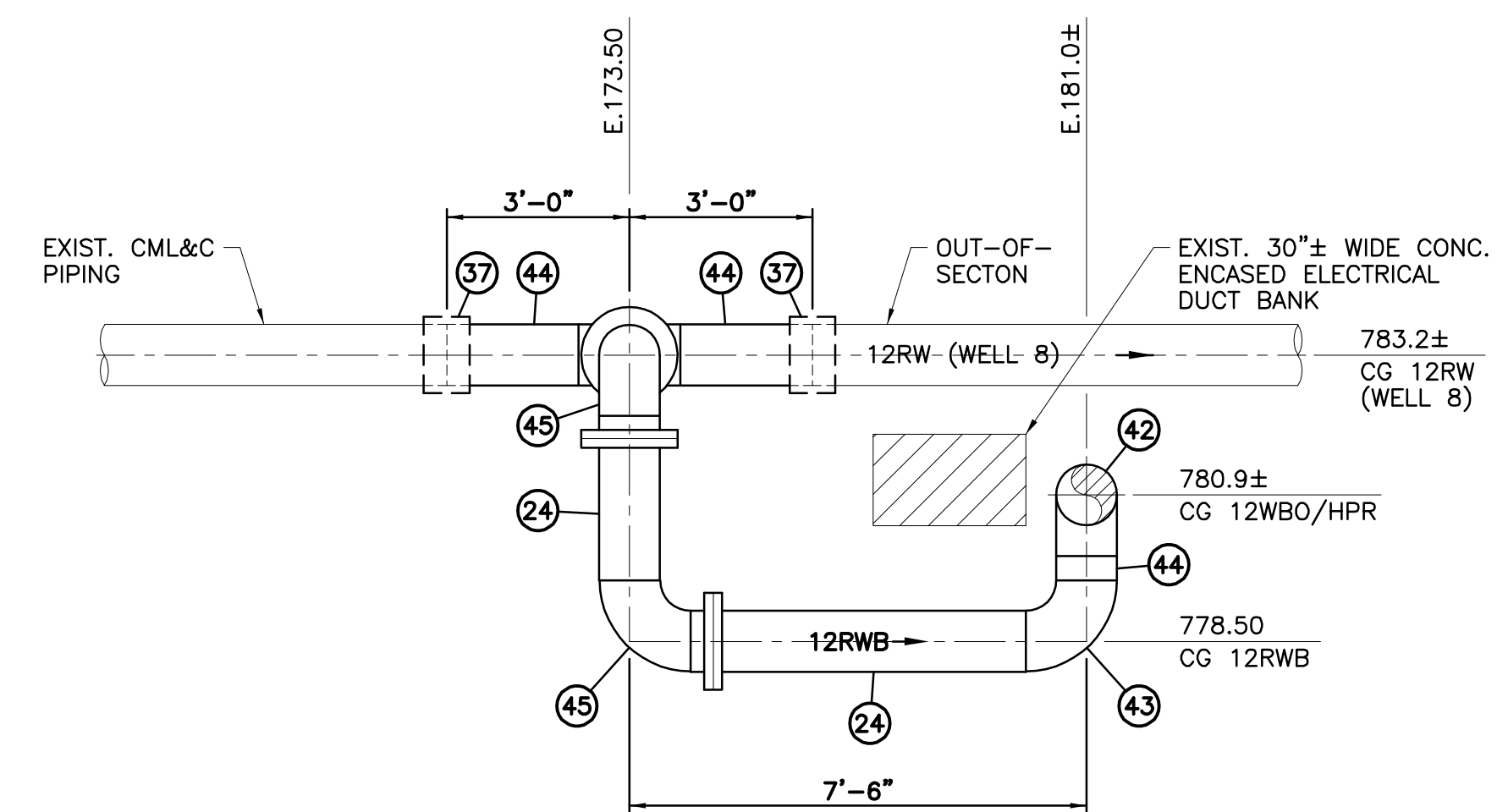
C
M-1



SECTION

SCALE: 3/8"=1'-0"

B
M-1



SECTION

SCALE: 3/8"=1'-0"

D
M-1

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

APPROVED BY THE RUBIDOUX COMMUNITY SERVICES DISTRICT FOR CONSTRUCTION:

DATE: _____ DIRECTOR OF ENGINEERING
RCE 48798

SYMBOL	REVISIONS	DATE	BY
▲	ADDENDUM No.1	12/11/23	BCY



K&S KRIEGER & STEWART
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APPROVED BY: *Brandon C. Valdez*
REGISTERED ENGINEER No. 78326 DATE 11/17/23

SCALE AS SHOWN
FIELD BOOK N/A
DESIGN BCV/FMN
DRAWN TMW
CHECKED BCV

RUBIDOUX COMMUNITY SERVICES DISTRICT
LELAND J. THOMPSON WATER TREATMENT PLANT
FE/MN FILTRATION SYSTEM BACKWASH SUPPLY PIPELINE

MECHANICAL SECTIONS

DRAWING
M-2
9 OF 10 SHEETS
R.C.S.D. PLAN No.