

SANDOVAL COUNTY FIRE STATION 41 WATER SYSTEM IMPROVEMENTS PROJECT

CONSTRUCTION PLANS SANDOVAL COUNTY, NEW MEXICO

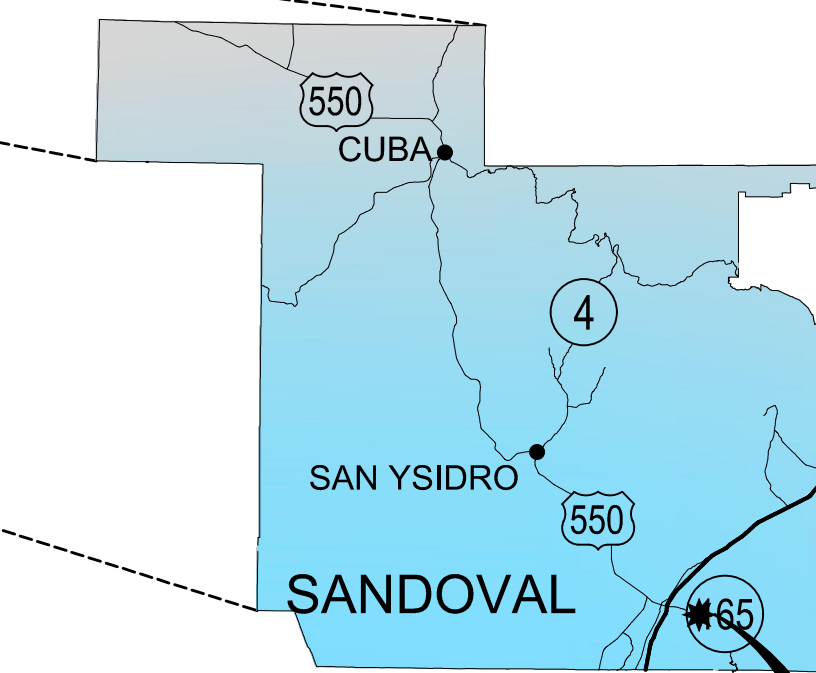
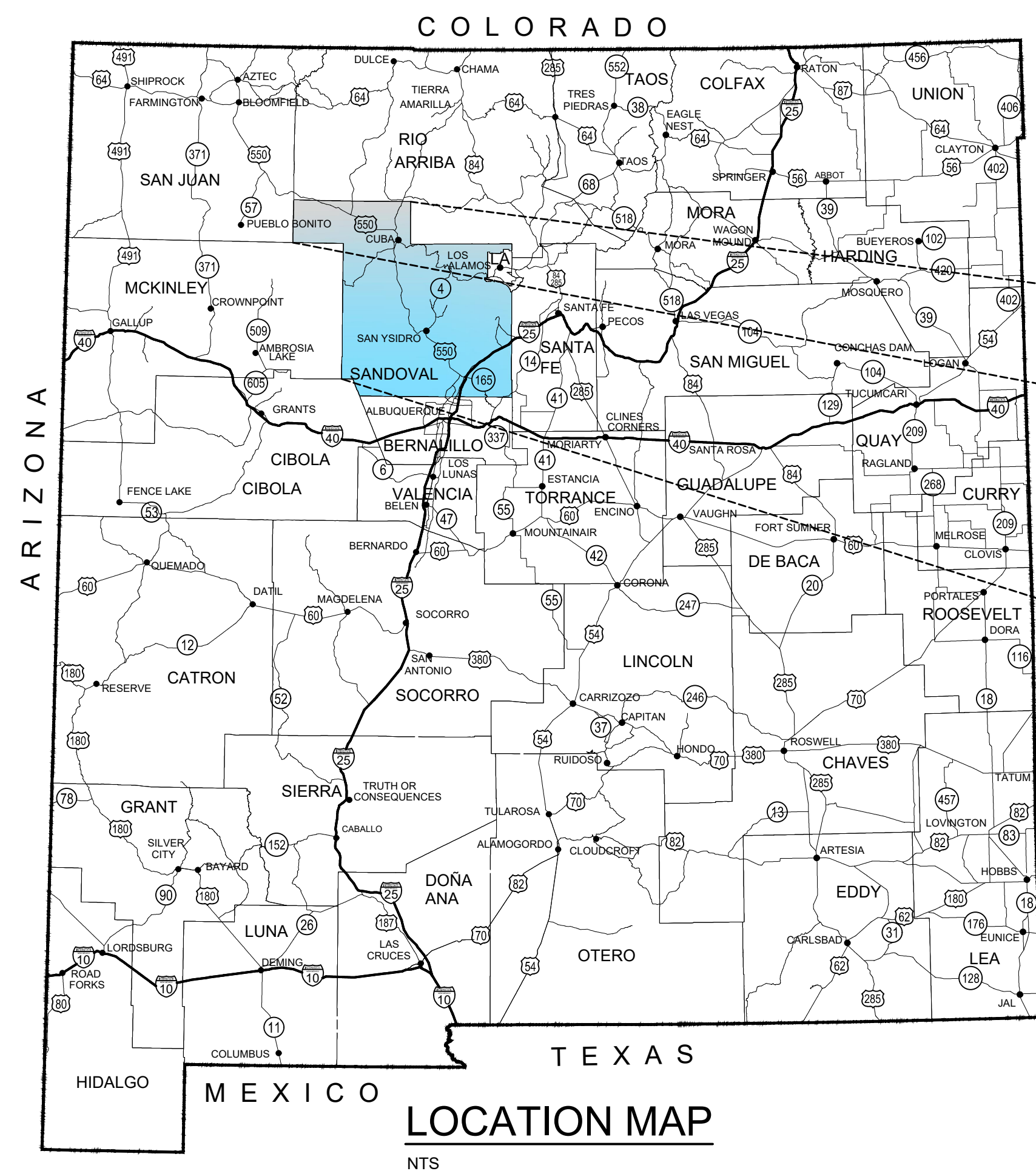
April 2024

PROCUREMENT NO: FY24-SCPW-04

PROJECT DESCRIPTION:
CONSTRUCTION OF 873 L.F. OF NEW 6" FIRE LINE,
CHLORINATION BUILDING, CHLORINATION SYSTEM, SITE
PIPING, RELOCATION OF 3 EXISTING TANKS AND
ASSOCIATED APPURTENANCES.

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PROJECT LOCATION
NTS

VICINITY MAP
NTS

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.

Keaton P. Chancellor 3-19-2024

KEATON CHANCELLOR, P.E. DATE
PROJECT MANAGER

THE SEAL AND SIGNATURE OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET DOES NOT SUGGEST RESPONSIBLE CHARGE FOR ALL SHEETS CONTAINED WITHIN THIS PACKAGE; PLAN SHEETS NOT SIGNED AND SEALED ARE NOT THE RESPONSIBILITY OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET. PLEASE REFER TO PROFESSIONAL REGISTRANTS IDENTIFIED ON INDIVIDUAL PLAN SHEETS.



Rev #	Date	Description	By	Chk'd

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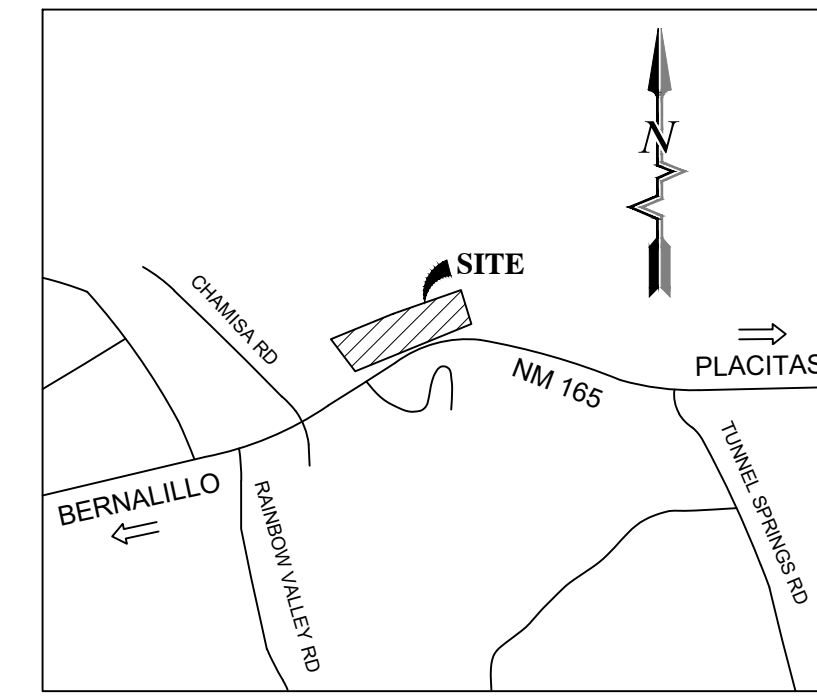
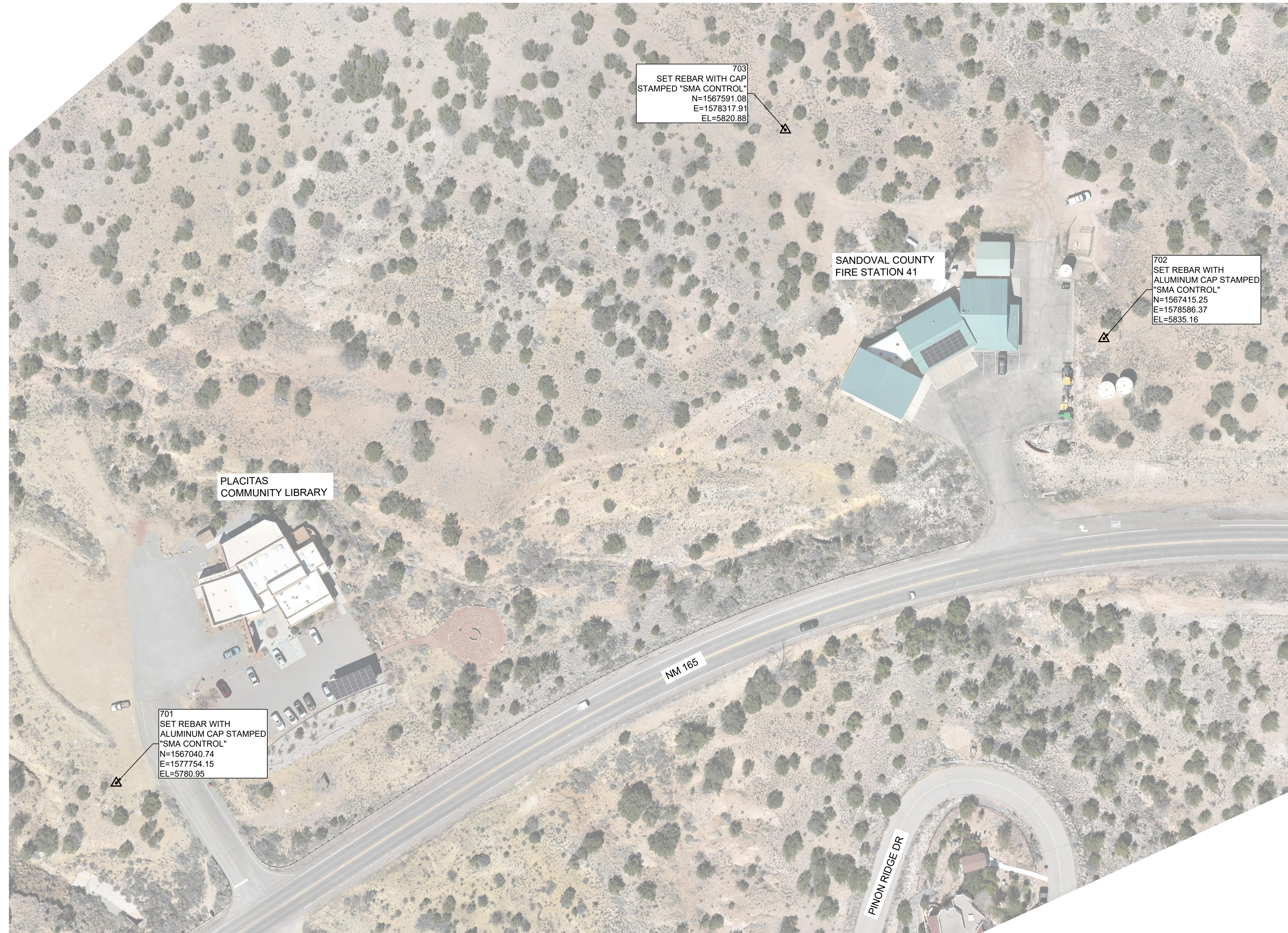
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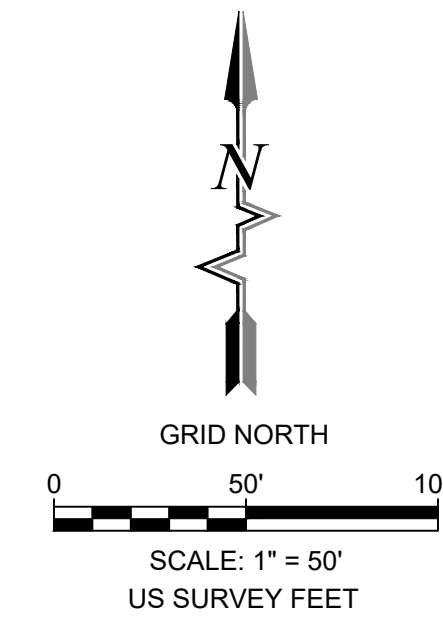


NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

SURVEY CONTROL SHEET
SANDOVAL COUNTY FIRE STATION 41
PLACITAS, NEW MEXICO



VICINITY MAP
NOT TO SCALE



BASIS OF BEARINGS:

BASIS OF BEARING:
THE BASIS OF BEARING OF THIS SURVEY SHOWN HEREON IS GRID NORTH BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM. DISTANCES AND COORDINATES ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES, NEW MEXICO CENTRAL ZONE 3002, NAD83, NAVD88, FROM A CONTROL POINT DETERMINED BY AN OPUS SOLUTION.

REFERENCE FRAME: MODIFIED NAD83(2011) (EPOCH:2010.0000)
ORIGIN OF SCALE: N= 1567040.74 E= 1577754.15 (N35°18'24.69078" W106°27'36.11066")
GRID TO GROUND SCALE FACTOR: 1.0003689254
CONVERGENCE: - 0° 7' 16.99"
ALL DISTANCES ARE GROUND DISTANCES. UNITS ARE U.S. SURVEY FEET
ELEVATION USED FOR SCALE: 5780.95'
VERTICAL DATUM: NAVD88 (ORTHOMETRIC HEIGHTS COMPUTED USING GEOID18)

METHODS:
ALL CONTROL ON THIS PROJECT WAS OBSERVED AND SET ON MARCH 31, 2023 WITH FINAL ADJUSTMENTS MADE BY APRIL 3, 2023. ALL POINTS WERE OBSERVED USING TRIMBLE R8 GPS RECEIVERS UTILIZING RTK GPS METHODS.

Point Table				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
701	1567040.74	1577754.15	5780.95	SET REBAR WITH ALUMINUM CAP STAMPED "SMA CONTROL"
702	1567415.25	1578586.37	5835.16	SET REBAR WITH ALUMINUM CAP STAMPED "SMA CONTROL"
703	1567591.08	1578317.91	5820.88	SET REBAR WITH CAP STAMPED "SMA CONTROL"

CERTIFICATION:

I, JAYSON NATERA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 27749, DO HEREBY CERTIFY THAT THIS CONTROL SURVEY REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION BASED ON AN ACTUAL SURVEY ON THE GROUND AS DESCRIBED HEREIN; THAT I AM RESPONSIBLE FOR THIS SURVEY; AND THAT THE SURVEY AND REPORT MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

Jayson Naterra
JAYSON NATERA, N.M.P.S. 27749



7/24/2023
DATE

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SANDOVAL COUNTY
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SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
SURVEY CONTROL SHEET



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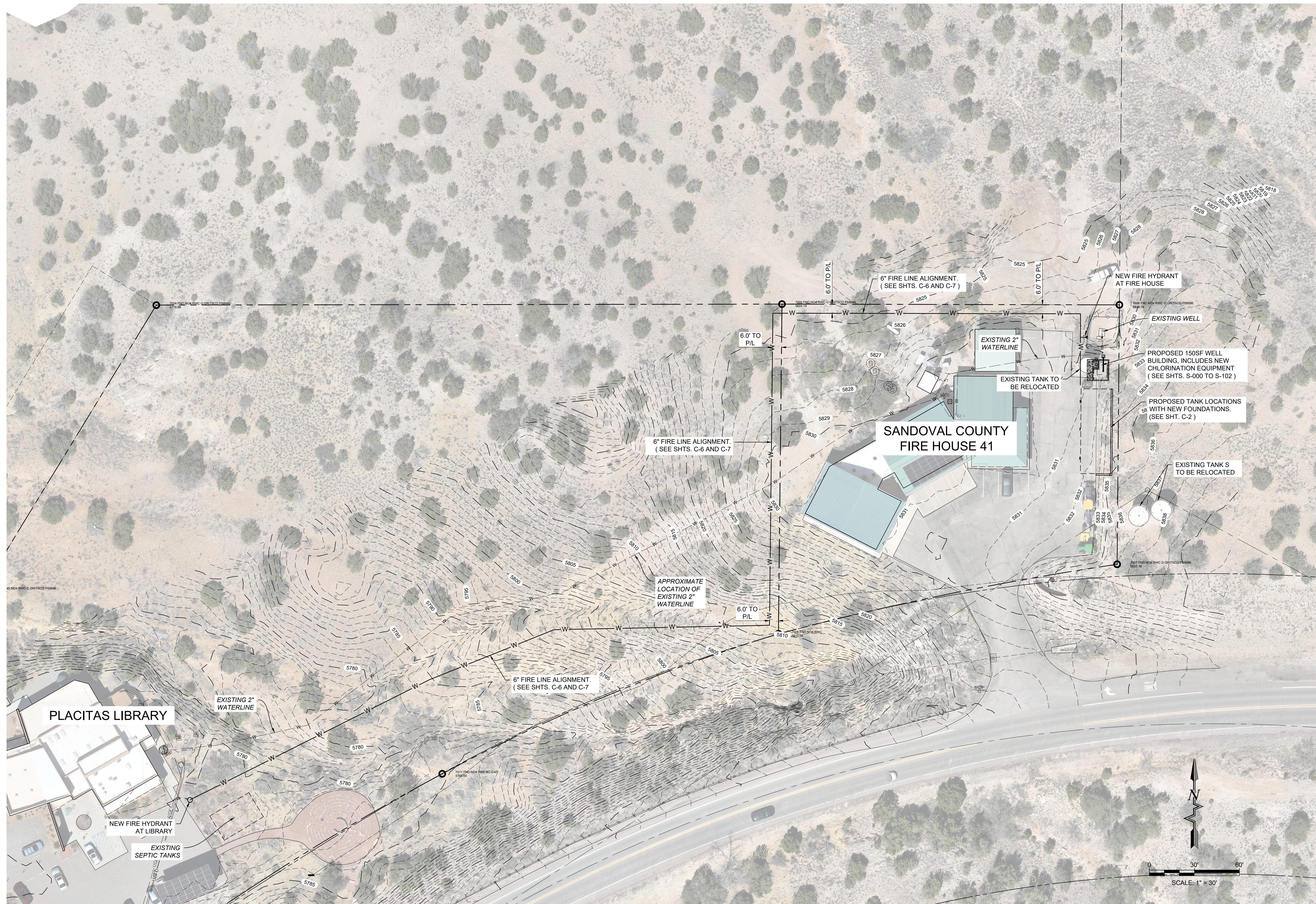
Designed KPC	Drawn MVH	Checked JMG
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Date: March 2024
Scale: Horiz: 1" = 50'
Vert:

Project No: 6432107

Sheet: G-3

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SANDOVAL COUNTY
 PLACITAS, NEW MEXICO
SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
 PLACITAS, NEW MEXICO
SITE OVERVIEW



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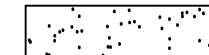
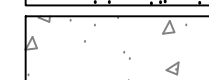
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KPC	MVH	JMG

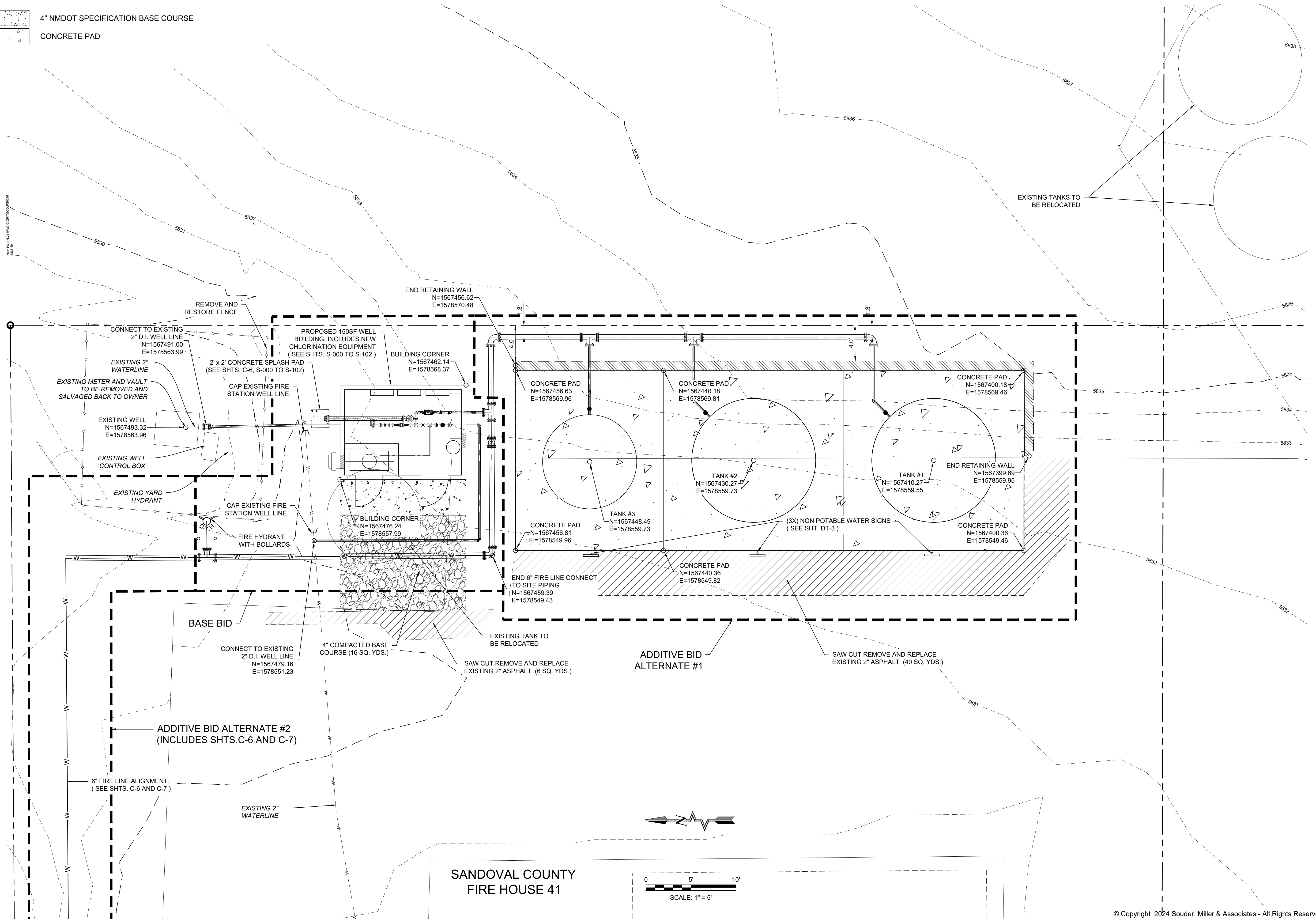
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 Vert:

Project No: 6432107

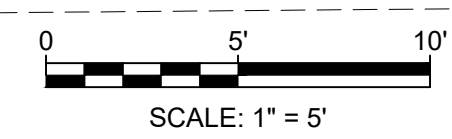
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LEGEND

-  4" NMDOT SPECIFICATION BASE COURSE
-  CONCRETE PAD



**SANDOVAL COUNTY
FIRE HOUSE 41**



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SANDOVAL COUNTY
 PLACITAS, NEW MEXICO
**SANDOVAL COUNTY FIRE STATION 41
 WATER SYSTEM IMPROVEMENTS PROJECT
 PLACITAS, NEW MEXICO
 TANK SITE PLAN**



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Designed KPC	Drawn MVH	Checked JMG
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Date: March 2024

Scale: Horiz:

Vert:

Project No: 6432107

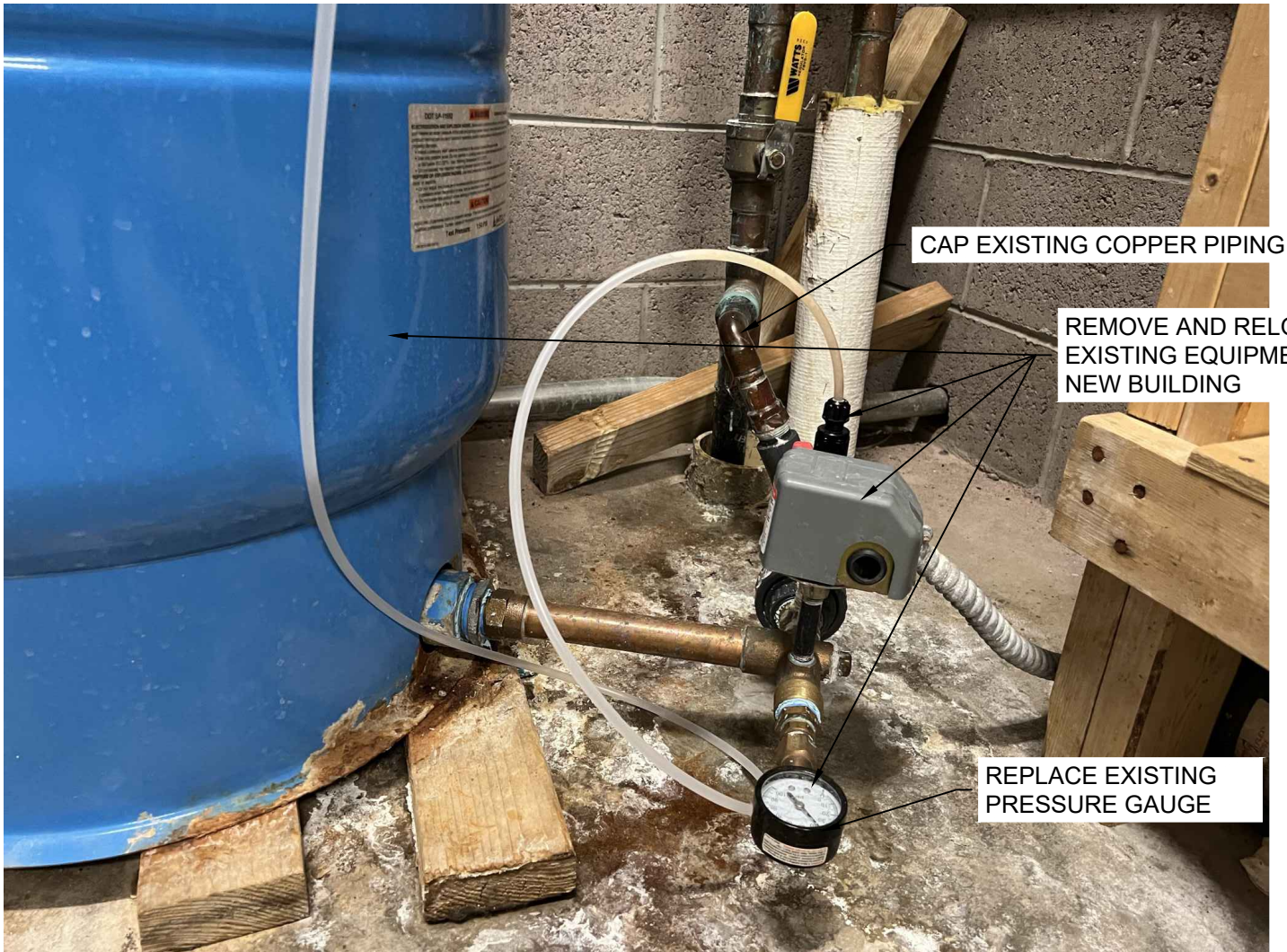
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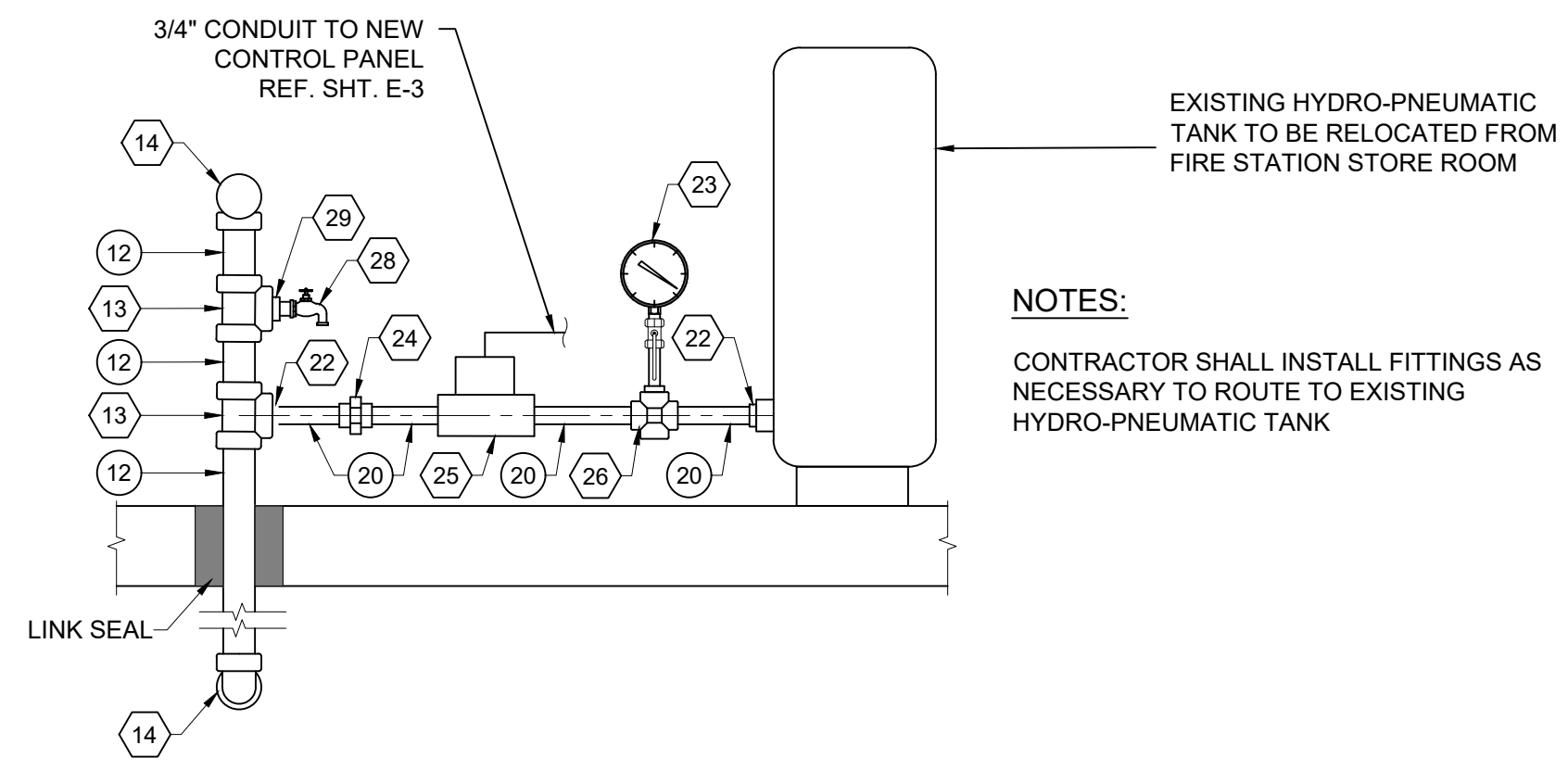
KEYED NOTES - SANDOVAL FIRE STATION #41 PIPING

ITEM NO.	DESCRIPTION
1	PRE-ENGINEERED MANUFACTURED BUILDING (SEE SHTS. G-100 TO S-102)
2	EXISTING 2" FROM WELL (SEE SHT. C-2)
3	AIR RELEASE VALVE VAL-MATIC MODEL NO. 15A.3DISVH(SEE SHT. DT-2)
4	2" SS STEEL PIPE, NPT
5	2" 90° BEND, SS, NPT
6	2" BALL VALVE, NPT
7	6" PVC C900 PIPE
8	6" MJ x MJ TEE, DI
9	6" MJ x MJ 90° BEND, DI
10	6" x 2" MJ TAPPED CAP
11	2" PVC CAP
12	2" PIPE, STEEL, NPT
13	2" TEE, STEEL, NPT
14	2" 90° BEND, STEEL, NPT
15	1" NPT x NPT FLOW METER, RECORDALL, MODEL 55
16	2" WYE STRAINER, NPT
17	2" ZURN MODEL 375 WITH FULL PORT QUARTER TURN BALL VALVE REDUCED PRESSURE BACK FLOW PREVENTER ASSEMBLY. PLUMB 1" DRAIN TO FLOOR DRAIN WITH A 4" AIR GAP

18	2" x 1" REDUCER, STEEL NPT
19	2" UNION, STEEL, NPT
20	1" PIPE, STEEL, NPT
21	1" TEE, STEEL, NPT (NOT SHOWN THIS SHEET)
22	1" x 3/4" FEMALE REDUCING BUSHING, D.I. NPT
23	PRESSURE GAUGE, 0-100 PSI, WITH PVC/TEFLON DIAPHRAM SEAL AND 1/2" BALL VALVE
24	1" UNION, STEEL, NPT
25	1" EXISTING PRESURE SWITCH TO BE RELOCATED TO WELL BUILDING FROM STORE ROOM
26	1" CROSS, STEEL, NPT AND 1" PLUG POINTED DOWN
27	2" HYMAX 2-BOLT COUPLING
28	3/4" SMOOTH NOSE HOSE BIB WITH VACUUM BREAKER
29	2" MALE x 3/4" FEMALE REDUCING BUSHING, NPT
30	4" PVC C900 PIPE
31	4" MJ x MJ 90° BEND, DI WITH 4" FLOOR DRAIN
32	4" CAST IRON FLAP VALVE (SEE SHT.)
33	6" MJ x MJ GATE VALVE (SEE DETAIL DT-2) 350 psi
34	2" CHECK VALVE, NPT
35	NON POTABLE WATER SIGNS(SEE SHT. DT-3)
36	NO HUB FLOOR DRAIN (ZN415-4NH-6B)
37	2" GATE VALVE, NPT



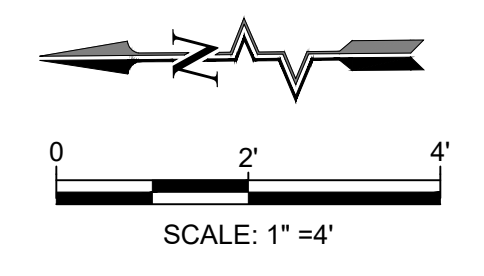
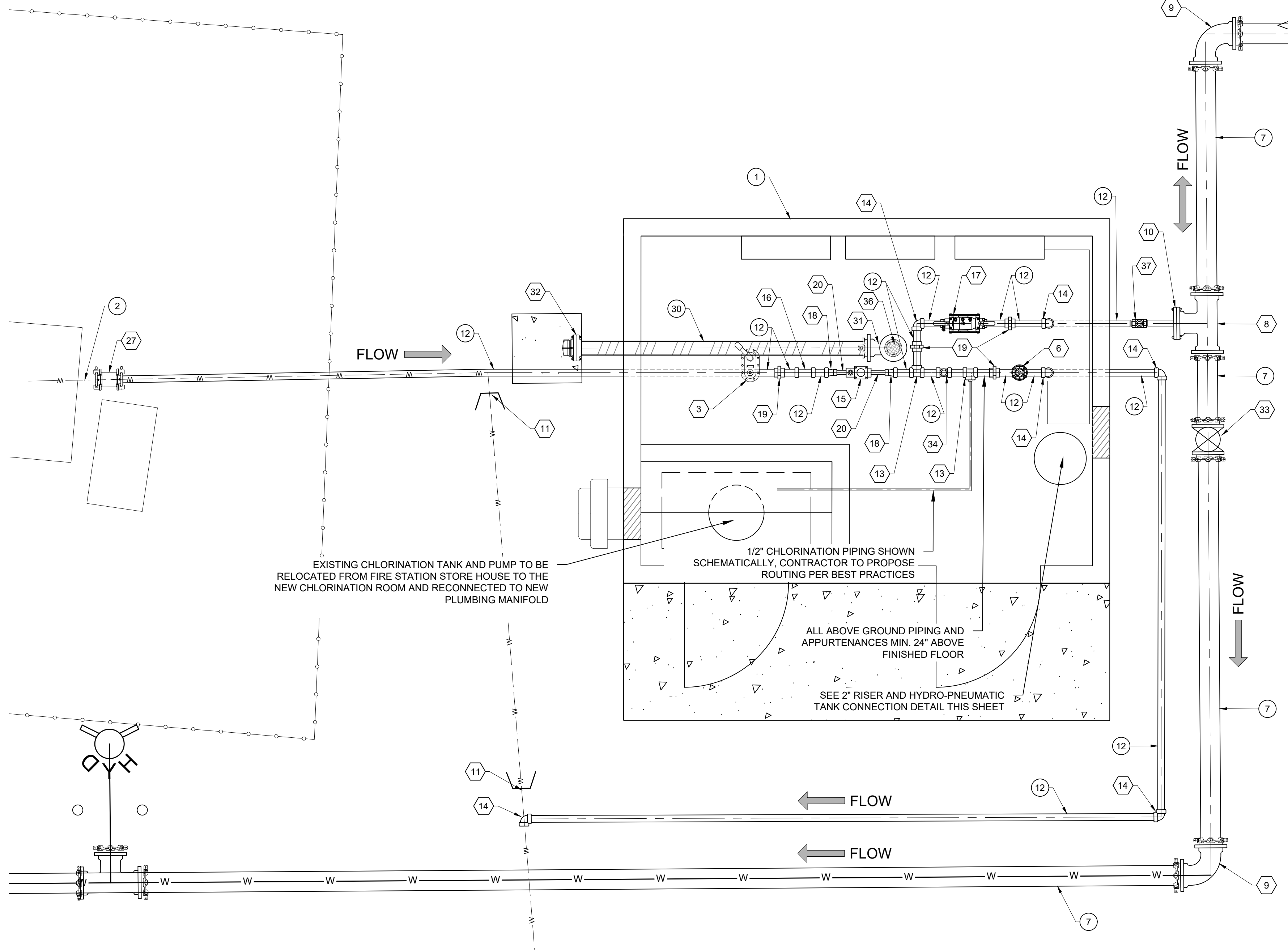
EXISTING EQUIPMENT TO BE RELOCATED
N.T.S.



PLUMBING MANIFOLD RISER SCHEMATIC
ELEVATION VIEW
N.T.S.

NOTES:
CONTRACTOR SHALL INSTALL FITTINGS AS NECESSARY TO ROUTE TO EXISTING HYDRO-PNEUMATIC TANK

- NOTES:**
- PRIOR TO COMMENCING ACTIVITIES, CONTRACTOR SHALL COMPLETE EXPLORATORY DIGGING AT THE CONNECTION LOCATIONS TO EXISTING LINES AND DETERMINE LOCATION AND DEPTHS OF EXISTING DISTRIBUTION LINES AND VALVES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DEVIATIONS FROM DESIGN LAYOUT IN ADVANCE OF CONSTRUCTION WITH ENOUGH NOTICE TO ENABLE DESIGN MODIFICATION IF NECESSARY.
 - EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY, BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES OR AS-BUILT DRAWINGS. CONTRACTOR MUST CONTACT NM ONECALL TO OBTAIN SPOTS AND SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. SEE GENERAL NOTES FOR FURTHER INFORMATION.



TANK SITE NORTH PIPING PLAN

By	CHKD
Description	
Rev#	Date
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<p>SANDOVAL COUNTY PLACITAS, NEW MEXICO</p> <p>SANDOVAL COUNTY FIRE STATION 41 WATER SYSTEM IMPROVEMENTS PROJECT PLACITAS, NEW MEXICO</p> <p>TANK SITE NORTH PIPING PLAN</p>	
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KPC	JMG
Drawn	
MVH	
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Project No:	6432107
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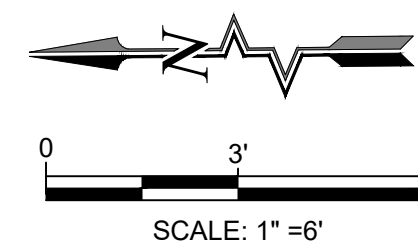
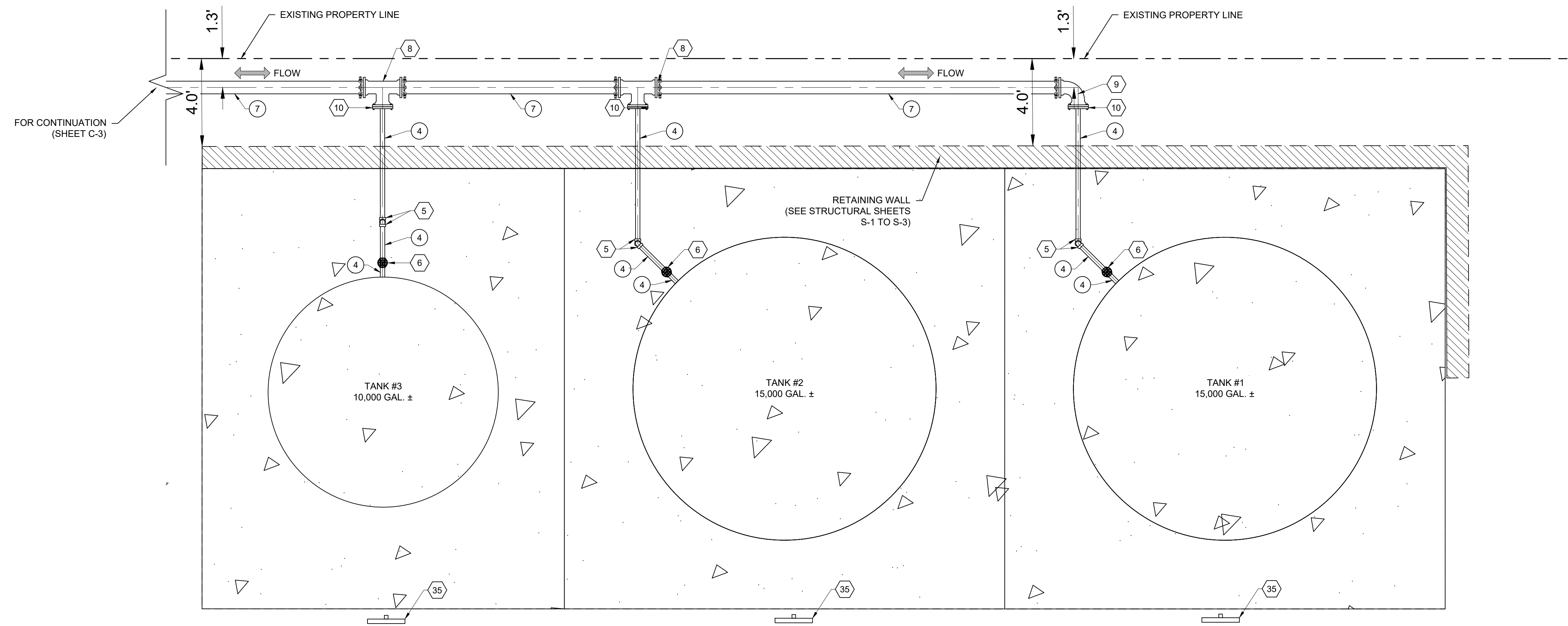
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32	4" CAST IRON FLAP VALVE (SEE SHT.)
33	6" MJ x MJ GATE VALVE (SEE DETAIL DT-2) 350 psi
34	2" CHECK VALVE, NPT
35	NON POTABLE WATER SIGNS(SEE SHT. DT-3)
36	NO HUB FLOOR DRAIN (ZN415-4NH-6B)
37	2" GATE VALVE, NPT

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 - ALL ABOVE GROUND EXTERIOR PIPING FOR CONNECTION TO THE EXISTING TANKS SHALL HAVE HEAT TRACE AND SHALL BE INSULATED.



TANK SITE SOUTH PIPING PLAN

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 PLACITAS, NEW MEXICO
TANK SITE SOUTH PIPING PLAN




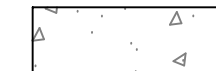
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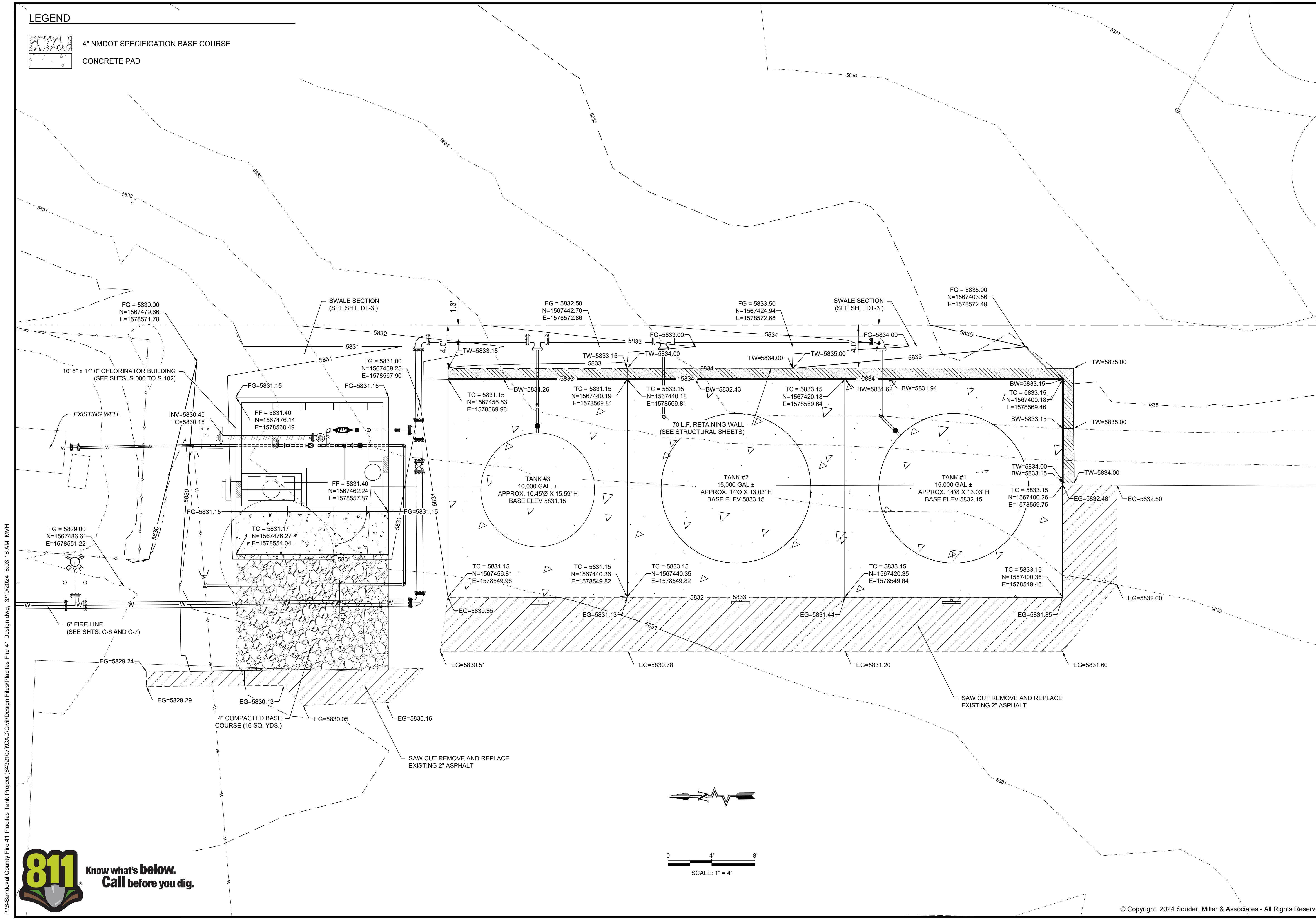
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KPC	MVH	JMG

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 Project No: 6432107
 Sheet: C-4

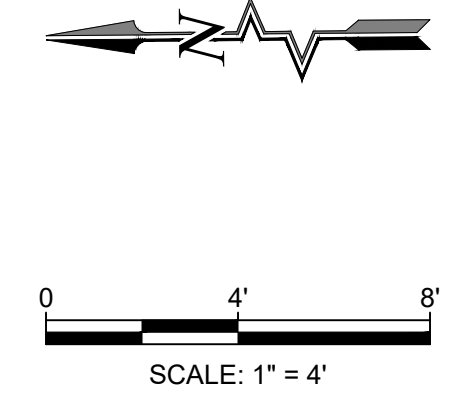
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- LEGEND**
-  4" NMDOT SPECIFICATION BASE COURSE
 -  CONCRETE PAD



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**SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT**
PLACITAS, NEW MEXICO
TANK SITE GRADING PLAN



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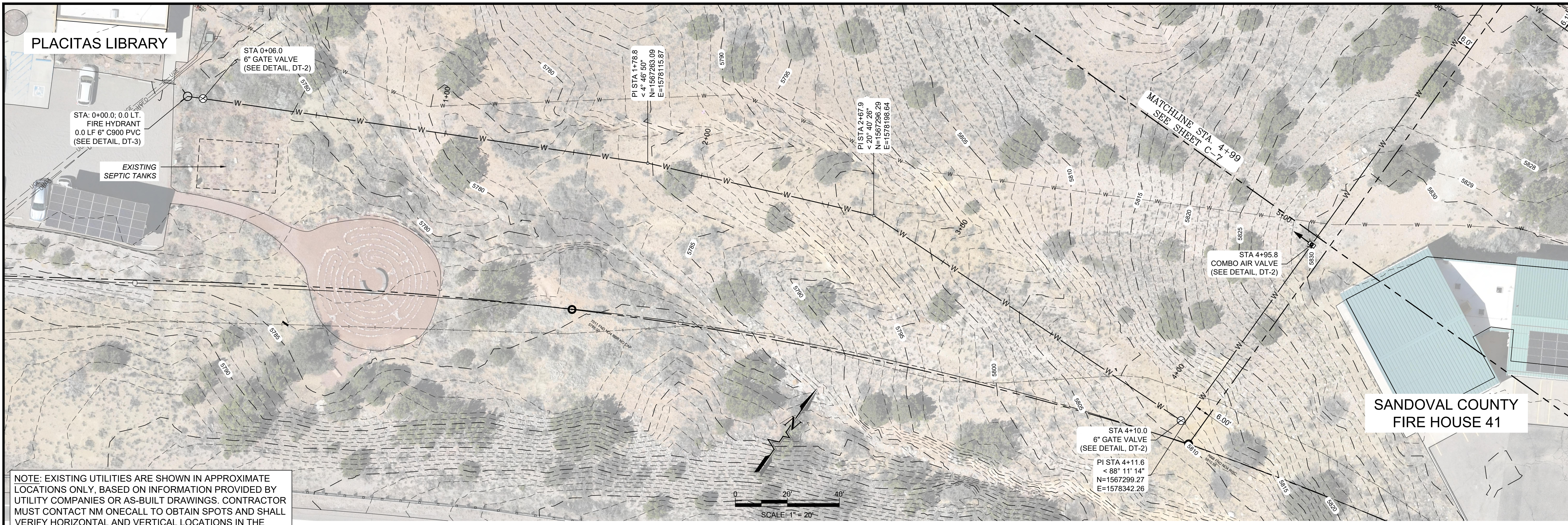
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Date: March 2024
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Project No: 6432107

Sheet: C-5

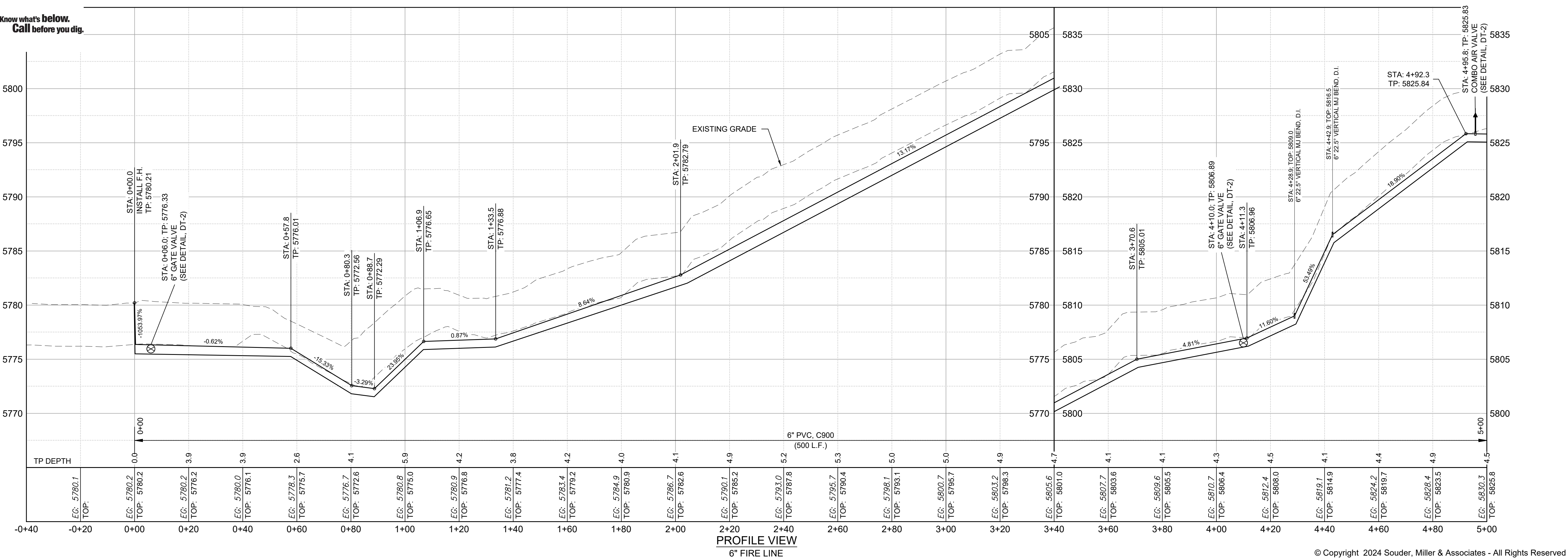
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SCALE: 1" = 20'

PLAN VIEW
6" FIRE LINE



PROFILE VIEW
6" FIRE LINE

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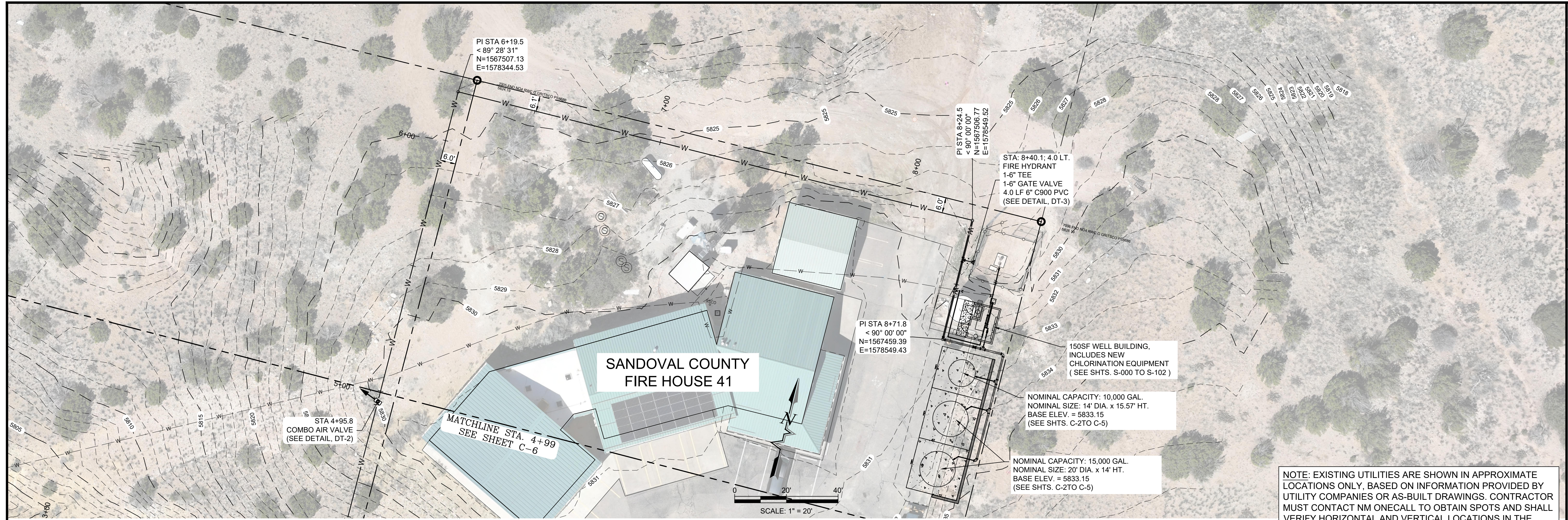
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WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
PLAN AND PROFILE STA. 0+00 TO 5+00.00



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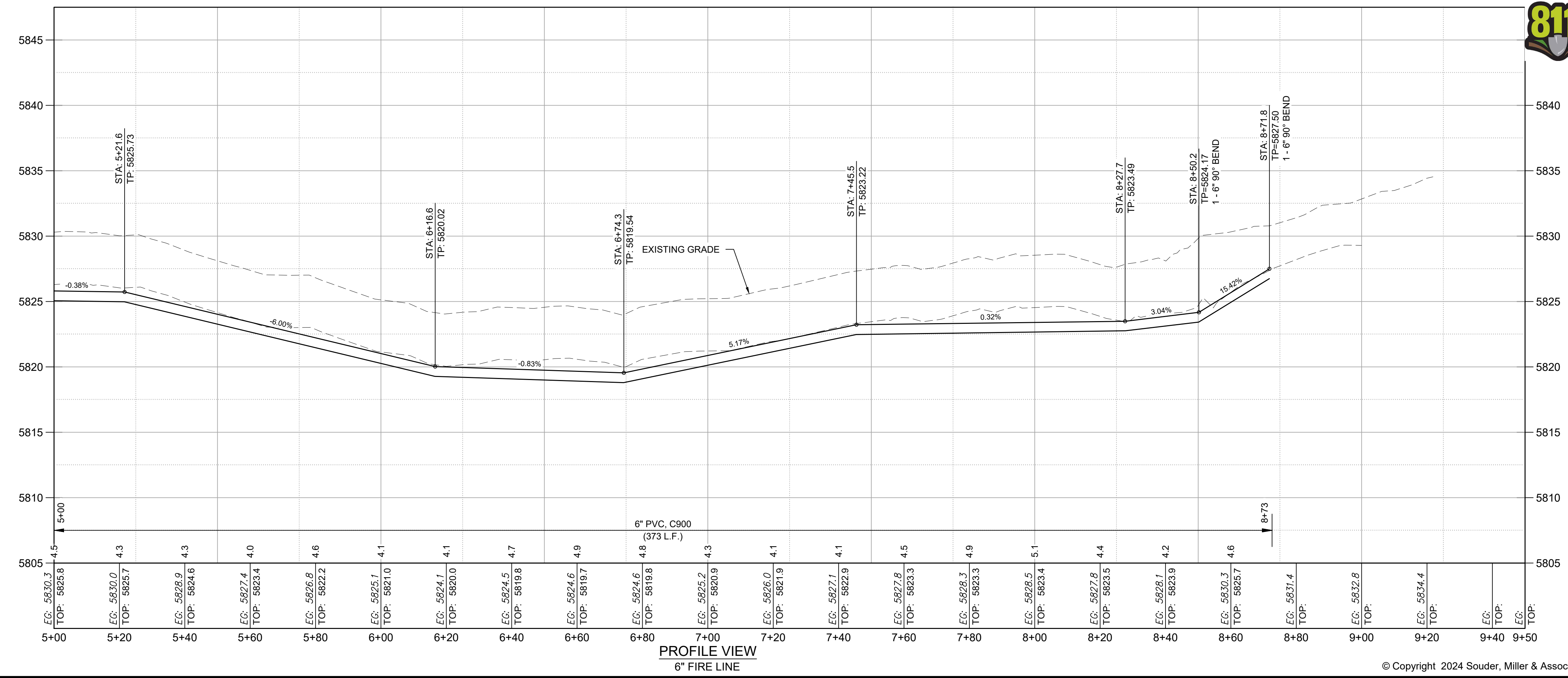
Designed	Drawn	Checked
KPC	MVH	JMG

Date: March 2024
Scale: Horiz: 1" = 20'
Vert: 1" = 2'
Project No: 6432107
Sheet: C-6



PLAN VIEW
6" FIRE LINE

NOTE: EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY, BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES OR AS-BUILT DRAWINGS. CONTRACTOR MUST CONTACT NM ONECALL TO OBTAIN SPOTS AND SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. SEE GENERAL NOTES FOR FURTHER INFORMATION.



By: CJKD
Description:
Rev#: Date:

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PLACITAS, NEW MEXICO

**SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
PLAN AND PROFILE STA. 5+00.00 TO 8+72.3**



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Designed KPC	Drawn MVH	Checked JMG
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Date: March 2024
Scale: Horiz: 1" = 20'
Vert: 1" = 2'
Project No: 6432107
Sheet: C-7

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**LENGTH IN FEET REQUIRED FOR ALL PVC RESTRAINED JOINTS
(VALUES IN PARENTHESIS ARE FOR DUCTILE IRON PIPE RESTRAINED JOINTS)**

HORIZONTAL BEND	PIPE DIA.	DEAD END	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6-INCH		51	19	8	4	2

RESTRAINED EACH WAY
GATE VALVES TO BE RESTRAINED IN SAME MANNER AS DEAD ENDS

VERTICAL OFFSET		PIPE DIAMETER 6-INCH					
		Ld = 6		Ld = 7		Ld = 8	
BEND		UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND
45°		31	7	31	6	31	5
22.5°		15	3	15	3	15	3
11.25°		8	2	8	2	8	2

RESTRAINED EACH WAY
FOR Ld > 4 CONSULT ENGINEER

6" x 6" x 4" TEE/WYE		6" x 6" x 6" TEE/WYE		6" x 2" REDUCER	
RUN	BRANCH	RUN	BRANCH	45	
20' Lr	1	20' Lr	1 (1)	RESTRAINED ON LARGE SIDE OF THE REDUCER	
5' Lr	1	5' Lr	10	4" x 2" REDUCER	
4' Lr	1	4' Lr	18	12	
3' Lr	1	3' Lr	26	RESTRAINED ON LARGE SIDE OF THE REDUCER	
2' Lr	12	2' Lr	34		
1' Lr	24	1' Lr	43		

RESTRAINED ALONG THE BRANCH

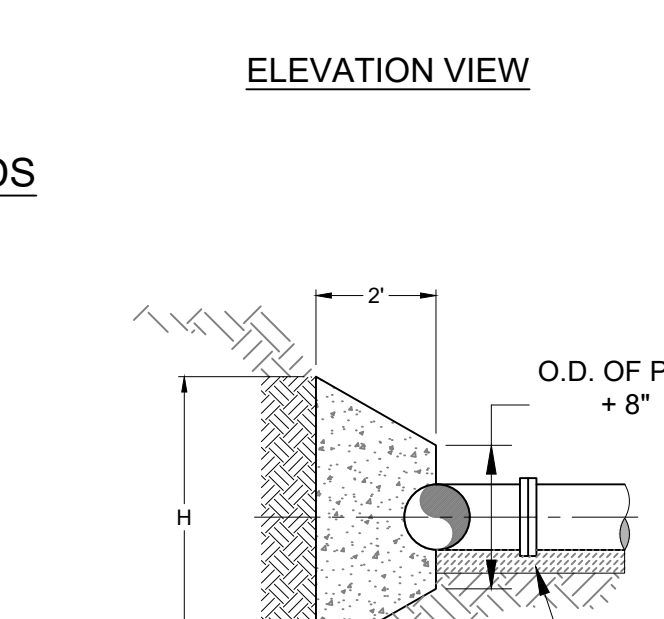
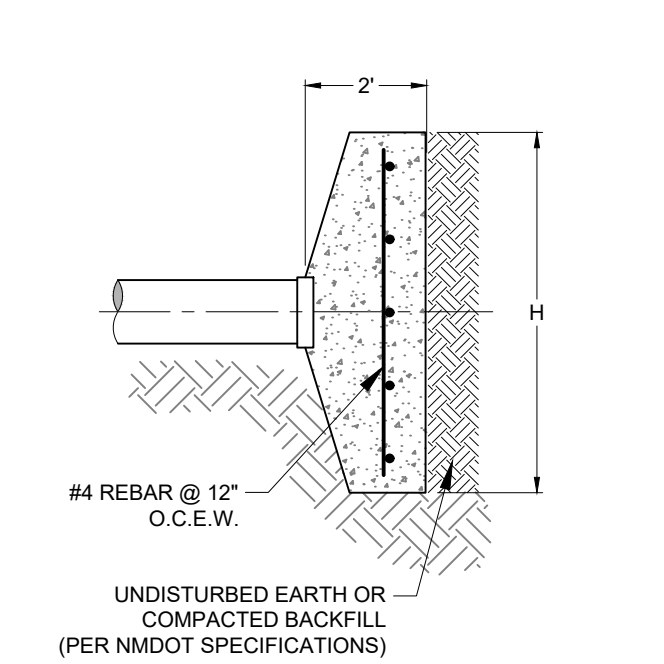
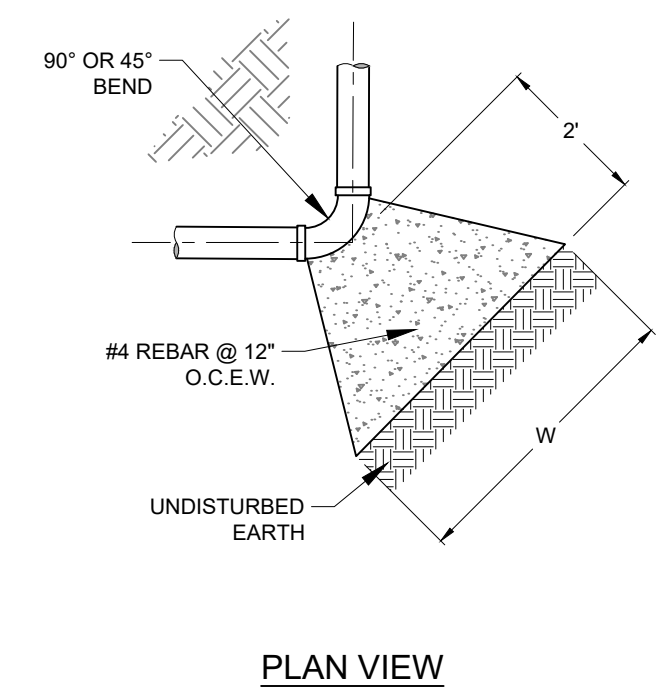
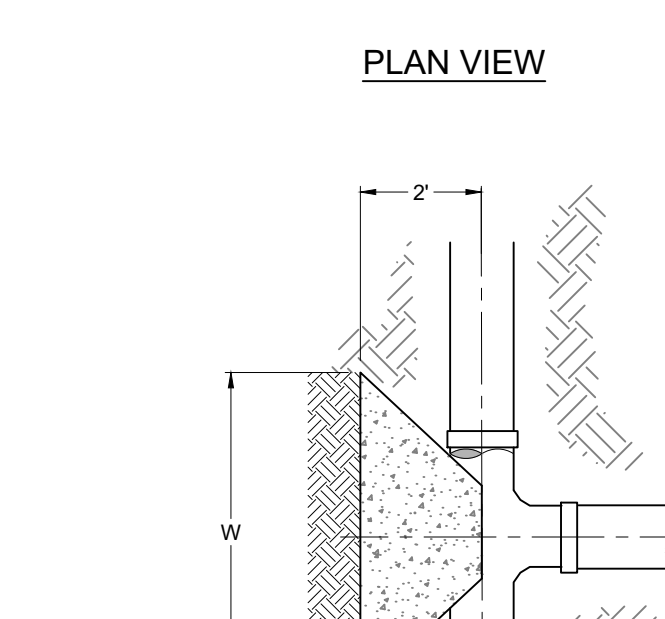
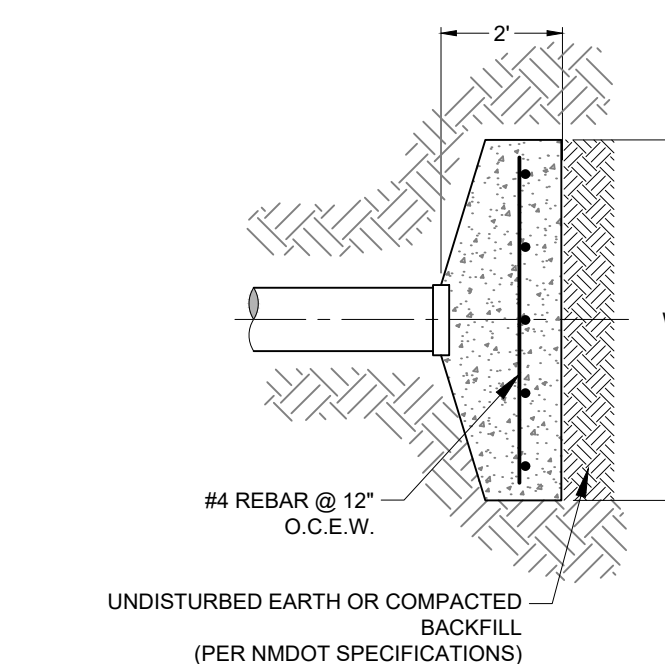
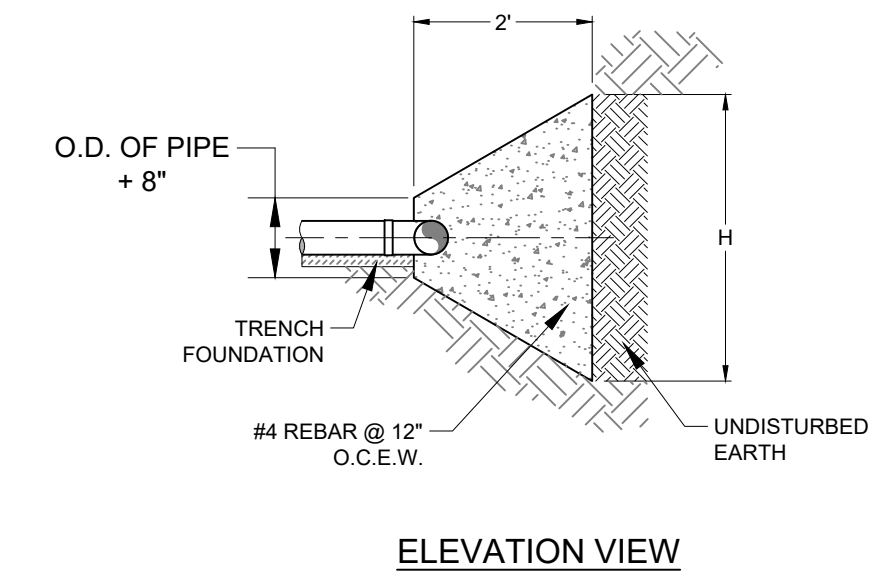
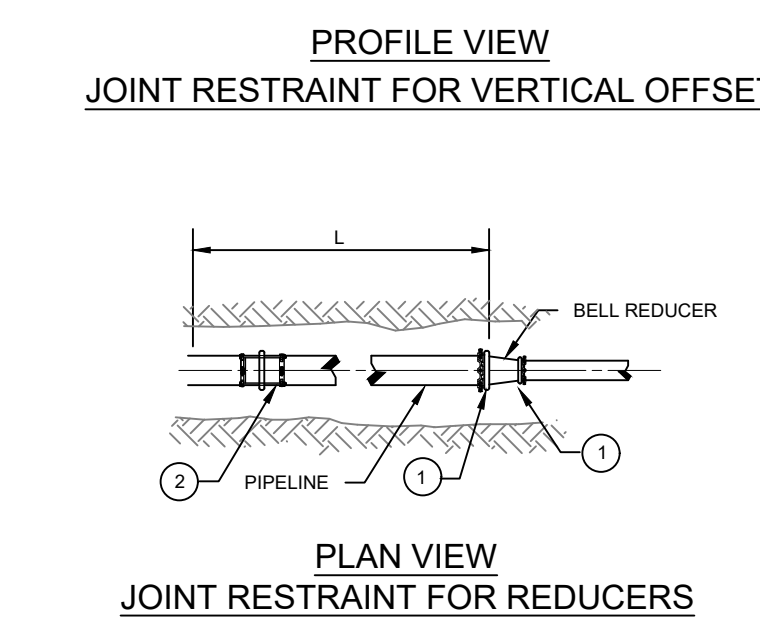
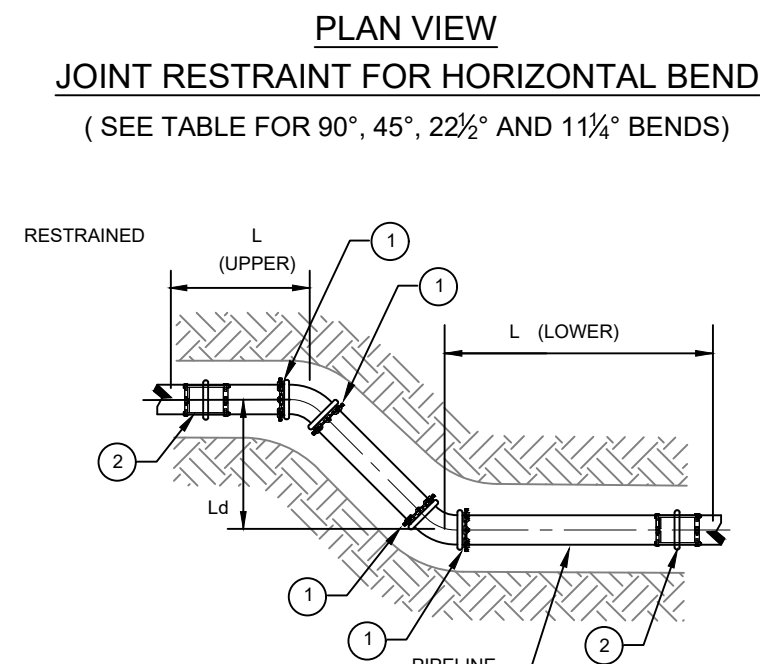
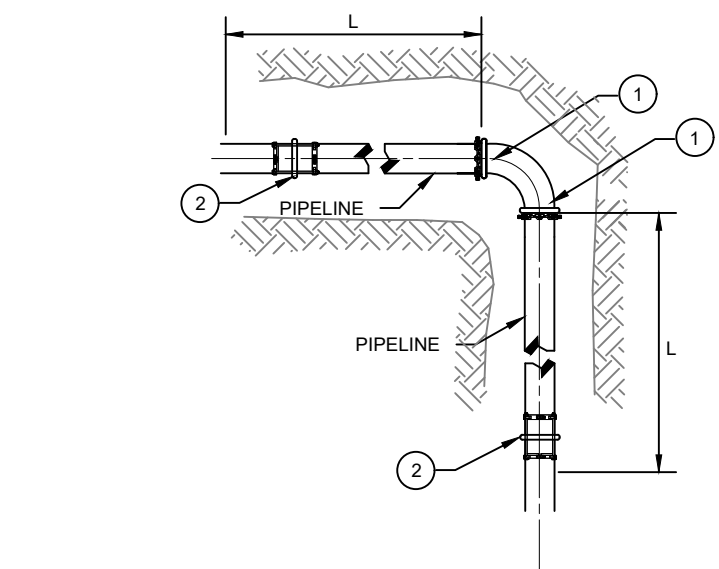
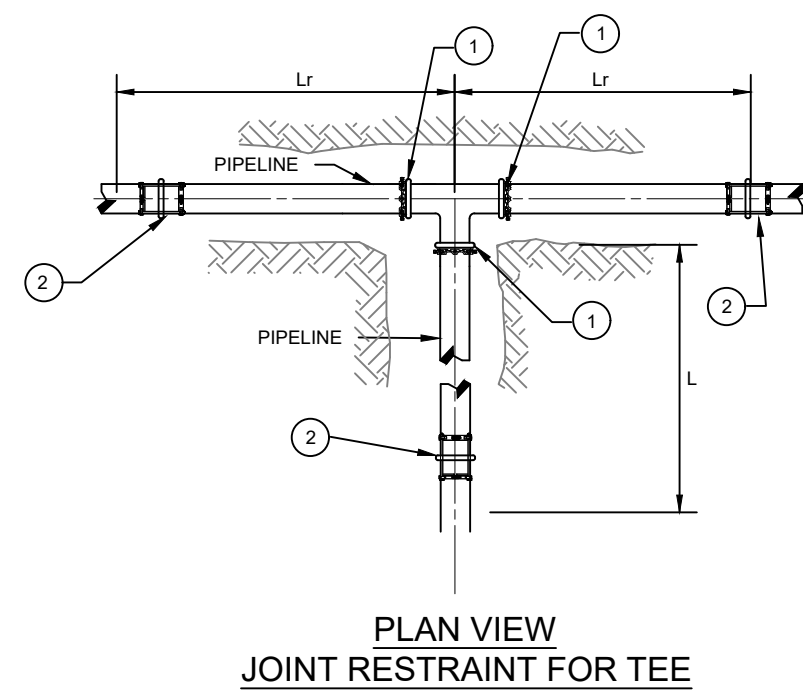
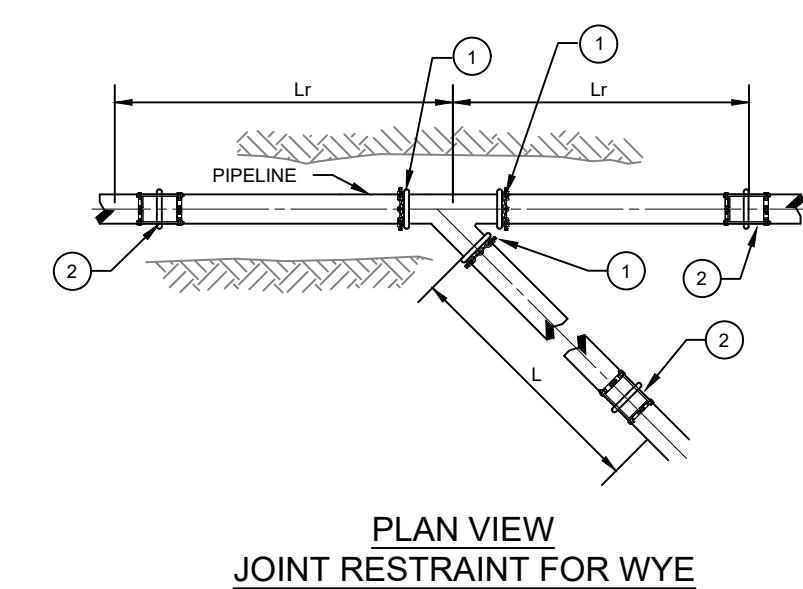
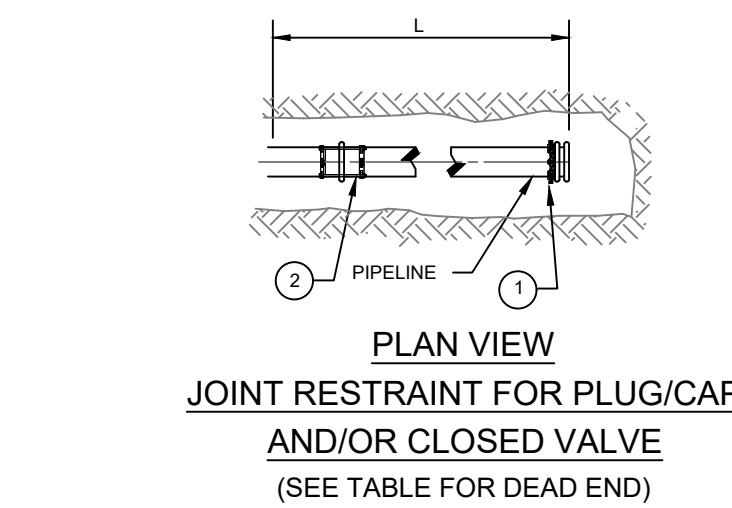
TABLE APPLIES TO PVC AND DUCTILE IRON PIPE FOR THE FOLLOWING CONDITIONS

- TEST PRESSURE: 150 PSIG
- SOIL TYPE: CL
- TRENCH TYPE: 5
- DEPTH OF COVER: 48"
- SAFETY FACTOR: 2

IF EXCAVATED NATIVE MATERIAL IS TO BE USED FOR PIPE EMBEDMENT, CONTRACTOR TO SUBMIT REVISED JOINT RESTRAINT TABLE REFLECTING APPROPRIATE SOIL TYPE.

NOTES:

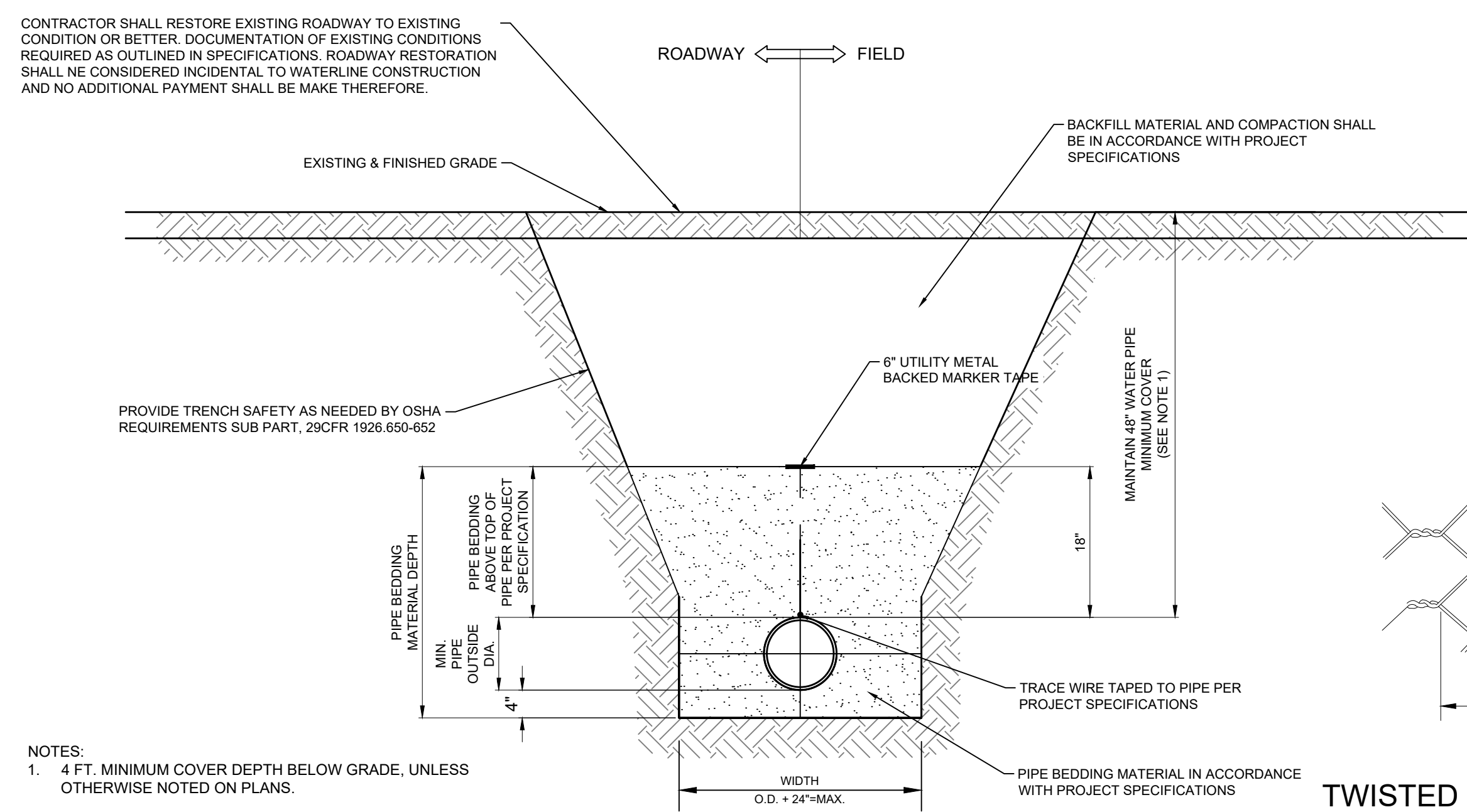
- MECHANICAL JOINT RESTRAINT FOR PVC C900 OR DUCTILE IRON PIPE. (USE EBAA IRON SERIES 2000 PV JOINT RESTRAINTS FOR AWWA C-900 PVC PIPE AND SERIES 1100 FOR DUCTILE IRON PIPE, OR APPROVED EQUAL.)
- BELL JOINT RESTRAINT HARNESS FOR C900 PVC OR DUCTILE IRON PIPE. (USE EBAA IRON SERIES 1600 JOINT RESTRAINT FOR AWWA C-900 PVC PIPE AND SERIES 1700 FOR DUCTILE IRON PIPE, OR APPROVED EQUAL.)
- NO CONCRETE THRUST BLOCKING SHALL BE INSTALLED UNLESS EXPLICITLY APPROVED OR REQUESTED BY THE ENGINEER IN WRITING. RESTRAINED JOINTS SHALL BE USED AT ALL PIPE FITTINGS PER THIS DETAIL AS A MINIMUM STANDARD. MINIMUM RESTRAINT LENGTHS SHALL BE PER MANUFACTURER RECOMMENDATIONS AND WITH REGARD TO SPECIFIC SITE CONDITIONS AND SYSTEM OPERATING PARAMETERS.
- L = LENGTH IN WHICH ALL JOINTS SHALL BE RESTRAINED
- VALVES SHALL REQUIRE THE SAME JOINT RESTRAINT LENGTHS AS DEAD ENDS OF SIMILAR SIZE AND PIPE MATERIAL.



**1 PIPE RESTRAINTS FOR PVC PIPE AT BENDS
DT-1 NOT TO SCALE**

THRUST BLOCK DIMENSION SCHEDULE				
BEARING DIMENSIONS, FT. (H=W)				
Pipe Size (inches)	Dead End/Valve	90° Bend	45° Bend	
2	1	1	1	

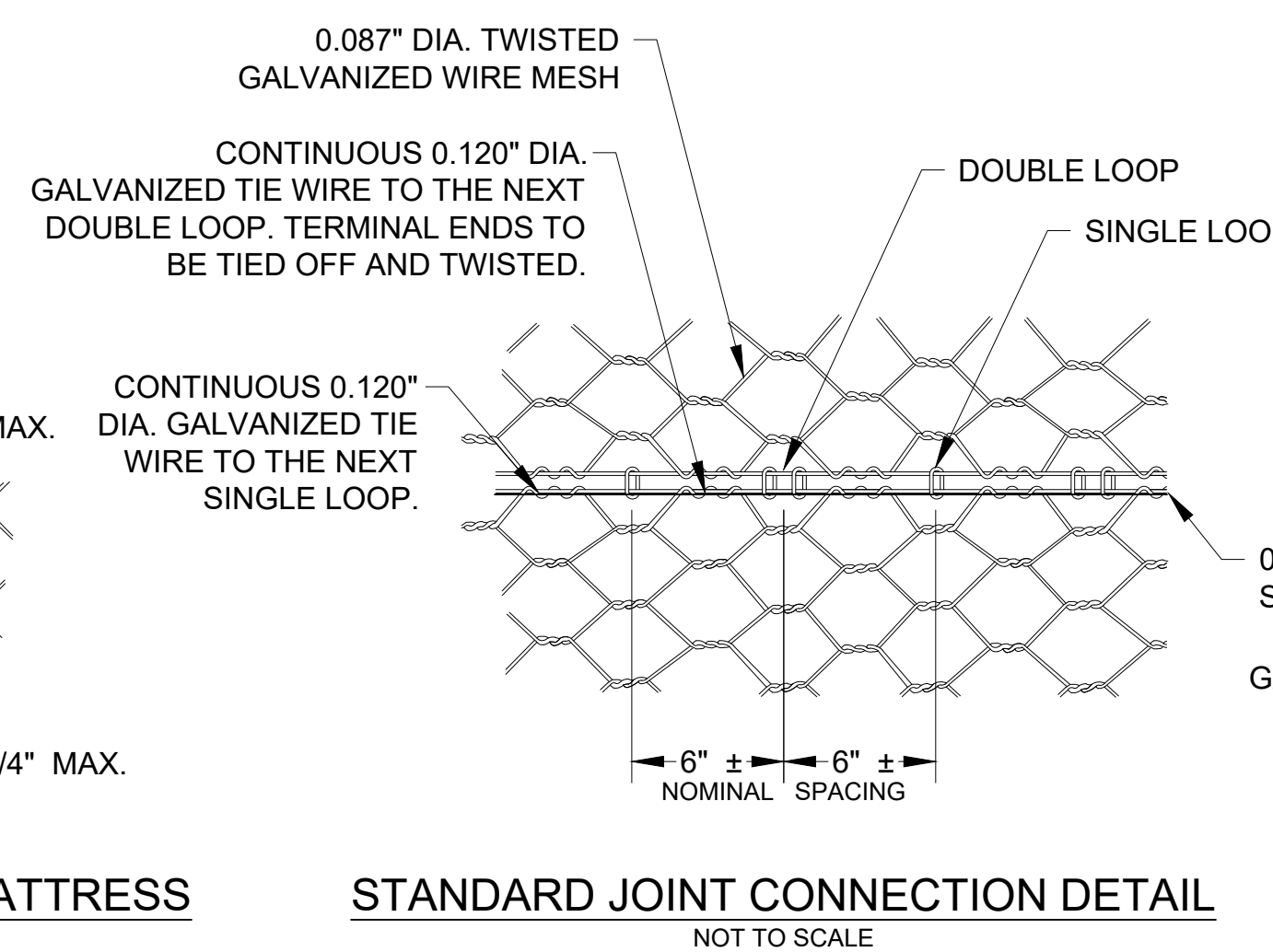
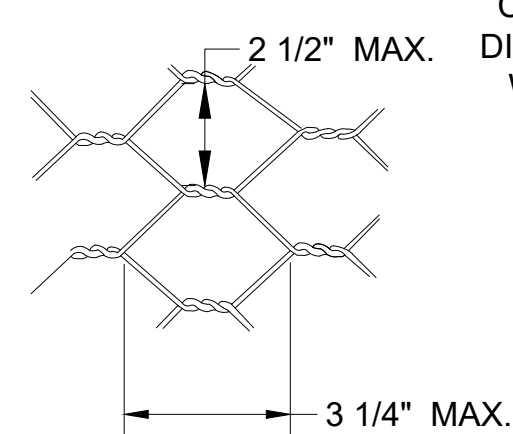
**3 THRUST BLOCK DETAIL
DT-1 NOT TO SCALE**



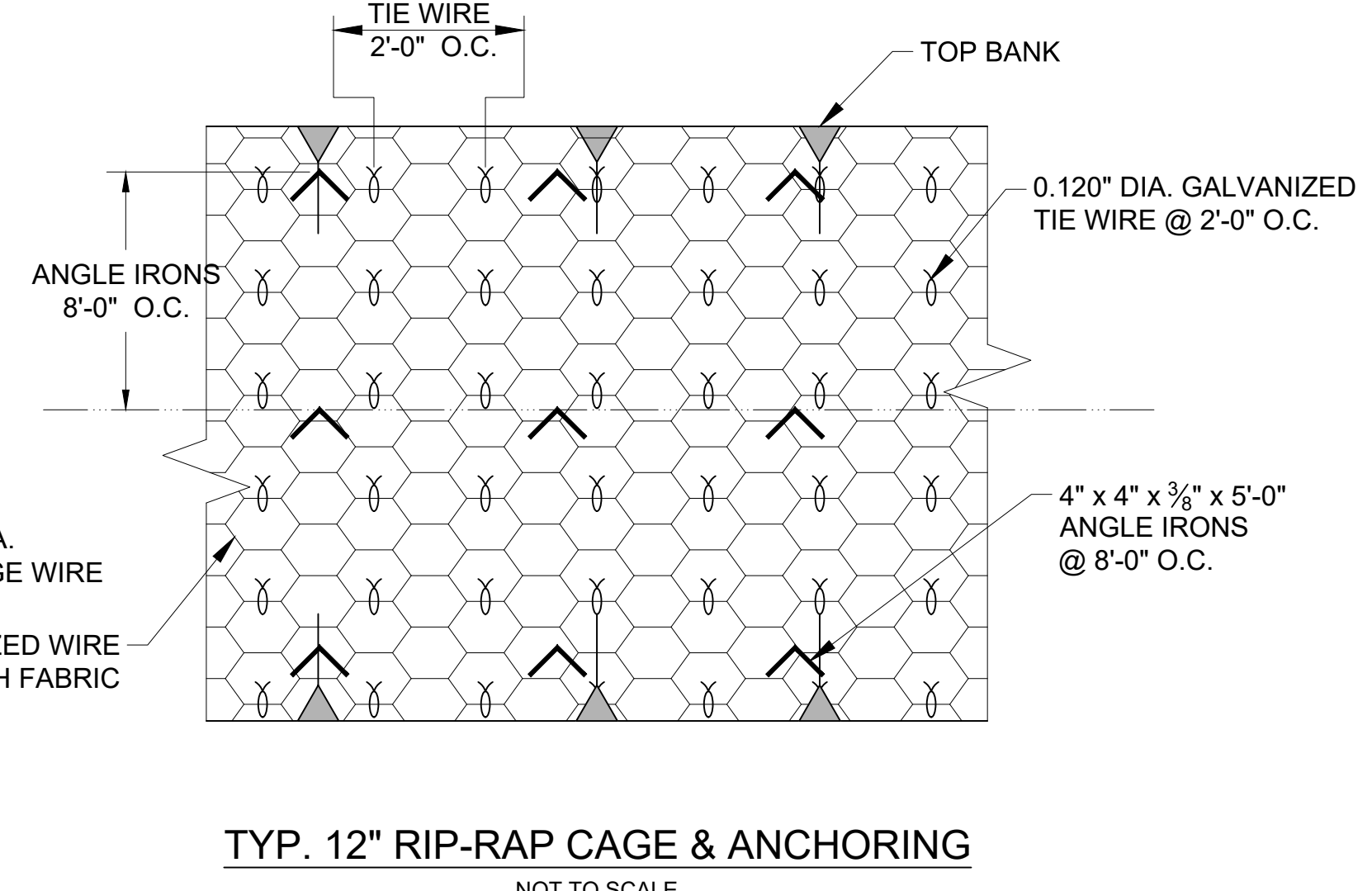
- NOTES:**
- 4 FT. MINIMUM COVER DEPTH BELOW GRADE, UNLESS OTHERWISE NOTED ON PLANS.
 - BACKFILL MATERIAL AND COMPACTION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - MINIMUM 10 FOOT HORIZONTAL SEPARATION BETWEEN SEWER MAINLINES AND WATER MAINLINES.
 - RESTORE TRENCHES IN ROADWAYS AND CROSSING DRIVEWAYS TO SAME OR BETTER CONDITION.

**2 TRENCH DETAIL
DT-1 NOT TO SCALE**

**TWISTED MESH MATTRESS
NOT TO SCALE**



**4 TYPICAL CAGED RIP RAP DETAIL
DT-2 NOT TO SCALE**



By: CJKD

Description:

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SANDOVAL COUNTY

**SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
THRUST BLOCK, RESTRAINT AND TRENCH DETAILS**

KEVIN P. CHANCELLOR
NEW MEXICO
24899
PROFESSIONAL ENGINEER
3-7-19-2024

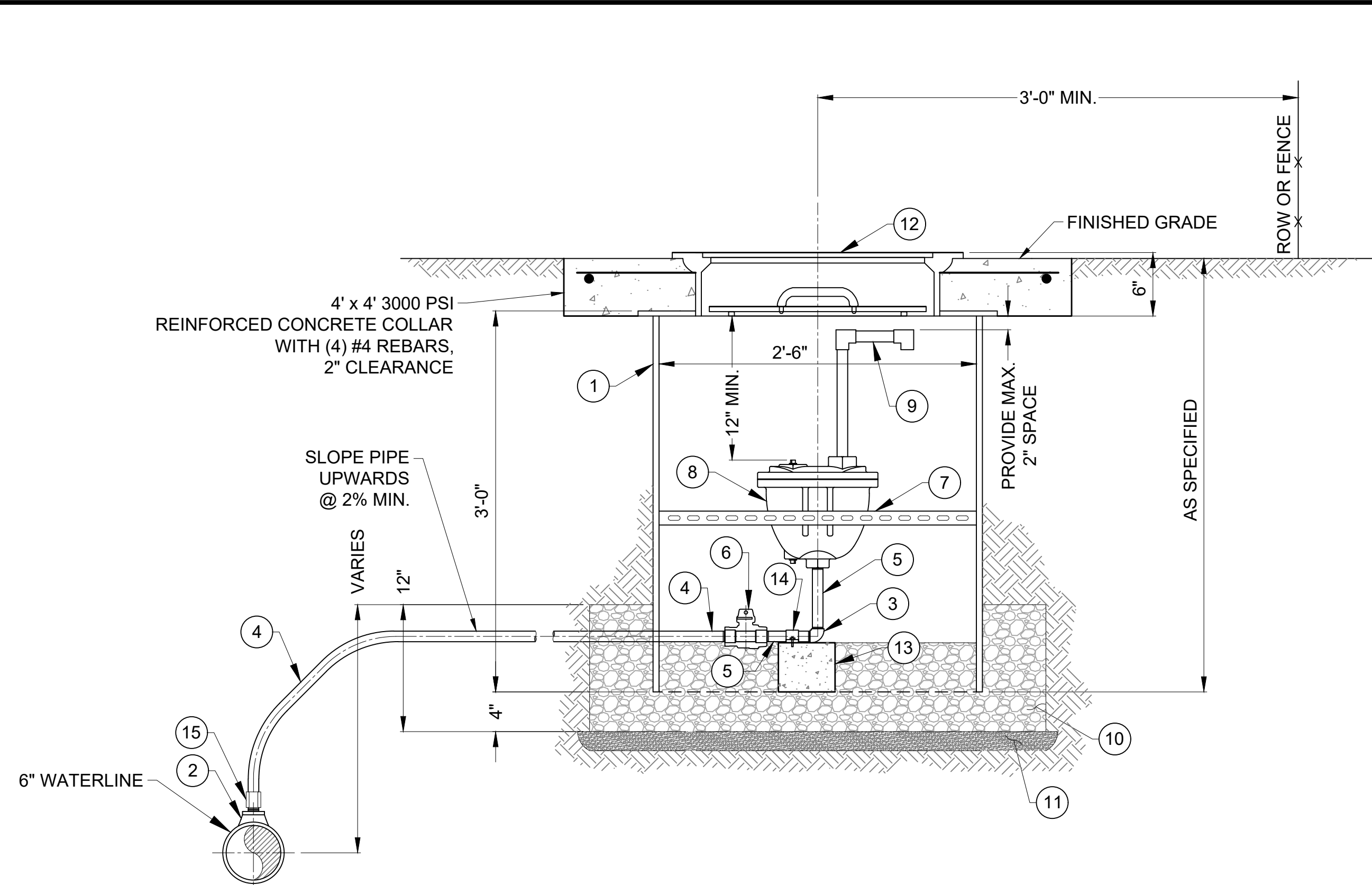
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Drawn: MVH
Checked: JMG

Date: March 2024
Scale: Horiz: N/A
Vert: N/A

Project No: 6432107

Sheet: DT-1



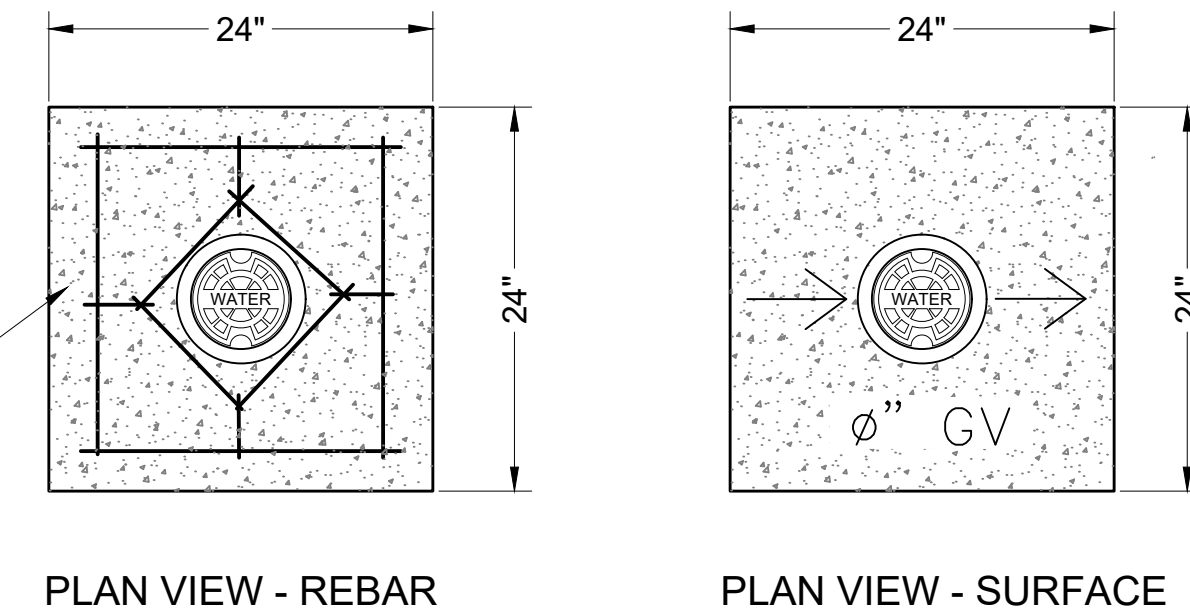
1 1" COMBINATION AIR VALVE DETAIL
DT-2 NOT TO SCALE

SCHEDULE

- 1 30" DIA. PLASTIC (METER) BOX WITH REMOVABLE FROST LID W/INSULATION
- 2 6" x 1" TAPPING SADDLE
- 3 ELBOW, 1" 90°, BRASS FNPT
- 4 NIPPLE, 1" x LENGTH AS NEEDED, POLYETHYLENE SDR 9 IPS
- 5 NIPPLE, 1" x 4", BRASS, MNPT
- 6 1" CURBSTOP VALVE, COMPRESSION x FNPT, BRASS
- 7 1" UNISTRUT SCREWED TO BOX AT ENDS WITH MIN. OF (2) 3/8" Ø SELF-TAPPING SHEET METAL SCREWS ON EACH END, WITH GALVANIZED PIPE STRAP SECURING AIR VALVE BOLTED TO UNISTRUT
- 8 1" COMBINATION AIR VALVE, W/ 1" OUTLET, EPOXY COATED
- 9 1" PVC SCH. 80 DOWN SPOUT, PVC WITH #24 SCREENED OUTLET
- 10 12" THICK GRAVEL BASE FOR CAN
- 11 COMPACTED SOIL BACKFILL
- 12 21 5/8" FROST PROOF METER PIT COVER
- 13 CONCRETE BLOCK SUPPORT, SOLID 8" x 8" x 16"
- 14 1" PIPE STRAP, ANCHOR PIPE TO BLOCK W/ 1/2" x 2" ANCHORS
- 15 1" CORPSTOP VALVE, THREADED x COMPRESSION

NOTE:

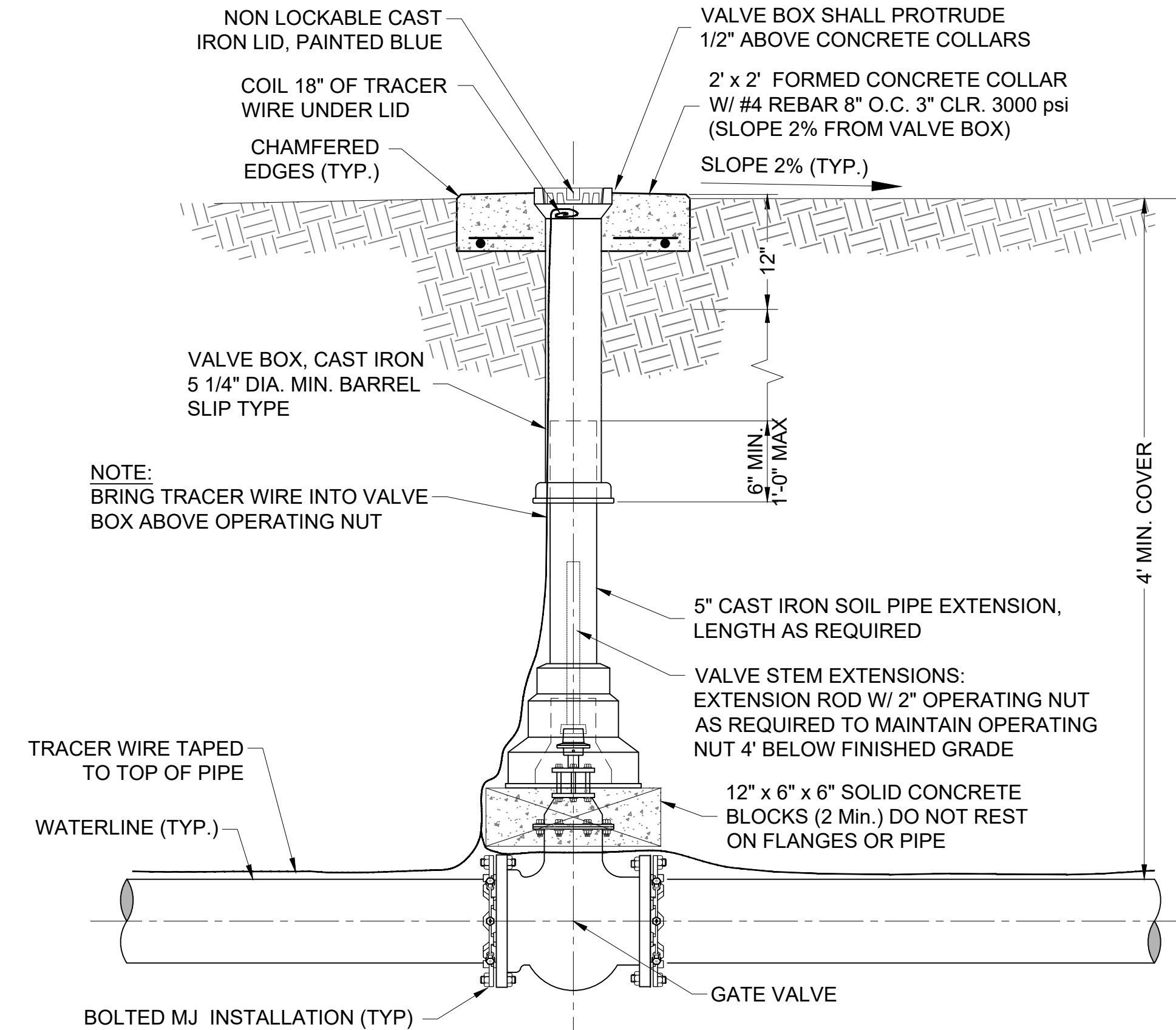
- 1. ALL MATERIALS SHALL BE RATED TO AT LEAST MAIN LINE PRESSURE RATING.
- 2. CONTRACTOR SHALL LABEL ALL CONCRETE ARV COLLARS "ARV", WITH DIRECTIONAL ARROWS, PIPE SIZES, MATERIAL AND LINE STATION.
- 3. PVC DOWN SPOUT SHALL BE LONG ENOUGH AND LOCATED AS TO NOT DRIP WATER ONTO VALVE BODY OR CURB STOP VALVE.
- 4. CURB STOP & AIR VALVES SHALL HAVE ADEQUATE HORIZONTAL CLEARANCE TO ALLOW EASE OF OPERATION OF CURB STOP W/ VALVE KEY AFTER INSTALLATION.
- 5. ALL BURIED METALLIC PIPE SHALL BE COLD APPLIED TAPE WRAPPED IN ACCORDANCE WITH AWWA C209.
- 6. ALL THREADED PIPE TO BE INSTALLED WITH TEFLON PIPE TAPE.
- 7. CONTRACTOR SHALL WRAP COMBINATION AIR VALVE AND ALL PIPING SHALL WITH THERMAXX OUTDOOR AIR RELEASE VALVE INSULATION JACKETS. CONTRACTOR SHALL SUBMIT SUBMITTAL FOR INSULATING JACKETS SPECIFIC FOR THE VALMATIC SERIES 200 COMBINATION AIR VALVES.



2' x 2' FORMED CONCRETE COLLAR W/ #4 REBAR 8" O.C. 3" CLR. 3000 psi

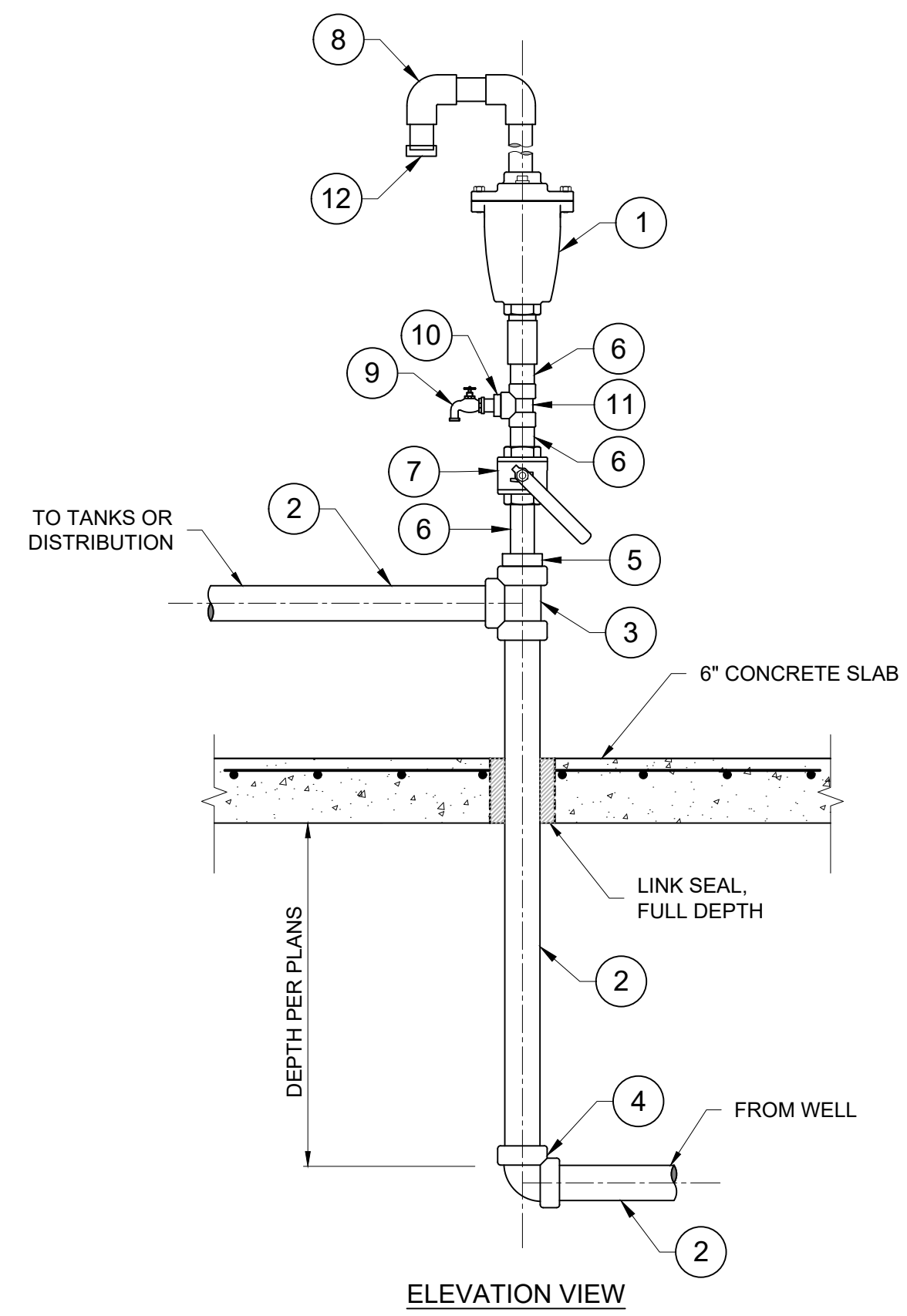
TYPICAL VALVE BOX

NOT TO SCALE



NOTE: BRING TRACER WIRE INTO VALVE BOX ABOVE OPERATING NUT

3 TYPICAL 6" GATE VALVE DETAIL
DT-2 NOT TO SCALE



Item No.	Description
1	1" VALMATIC MODEL NO. 202C.2SV COMBINATION AIR VALVE (SINGLE BODY TYPE), 300 psi
2	2" PIPE, SS SCH. 40, NPT
3	2" TEE, SS SCH. 40, NPT
4	2" 90° BEND, SS SCH. 40, NPT
5	2" MALE x 1" FEMALE REDUCING BUSHING, SS SCH. 40, NPT
6	1" PIPE, SS SCH. 40, NPT
7	1" BALL VALVE, STAINLESS STEEL, NPT, 250 psi
8	1" DOWN SPOUT W/ SCREEN, SCHEDULE 80 PVC
9	3/4" SMOOTH NOSE HOSE BIB WITH VACUUM BREAKER
10	1" MALE x 3/4" FEMALE REDUCING BUSHING, NPT
11	1" TEE, SS SCH. 40, NPT
12	#24 MESH SCREEN WITH STAINLESS STEEL WORM GEAR STRAP

- NOTES:**
- 1. ALL FLANGES SHALL BE ANSI CLASS 150 (STEEL) OR ANSI CLASS 125 (IRON).
 - 2. ALL NON-STAINLESS METALLIC PIPE, VALVES AND FITTINGS SHALL BE FBE-COATED, INTERIOR AND EXTERIOR. ALL NON-STAINLESS METALLIC PIPE SHALL NOT BE IN CONTACT WITH SOIL.
 - 3. AIR VALVE TO BE LOCATED IN FIELD BY ENGINEER.
 - 4. COIL TRACER WIRE ON INSIDE WALLS OF VAULT.
 - 5. ALL STAINLESS STEEL PIPE AND FITTINGS SHALL BE CLASS 150.
 - 6. REMOVE ALL PVC CUTTINGS FROM INSIDE MAINLINE AFTER TAPPING.
 - 7. ALL MATERIAL RATED TO AT LEAST 235 psi, UNLESS OTHERWISE NOTED.

2 1" COMBINATION AIR VALVE DETAIL
DT-2 NOT TO SCALE

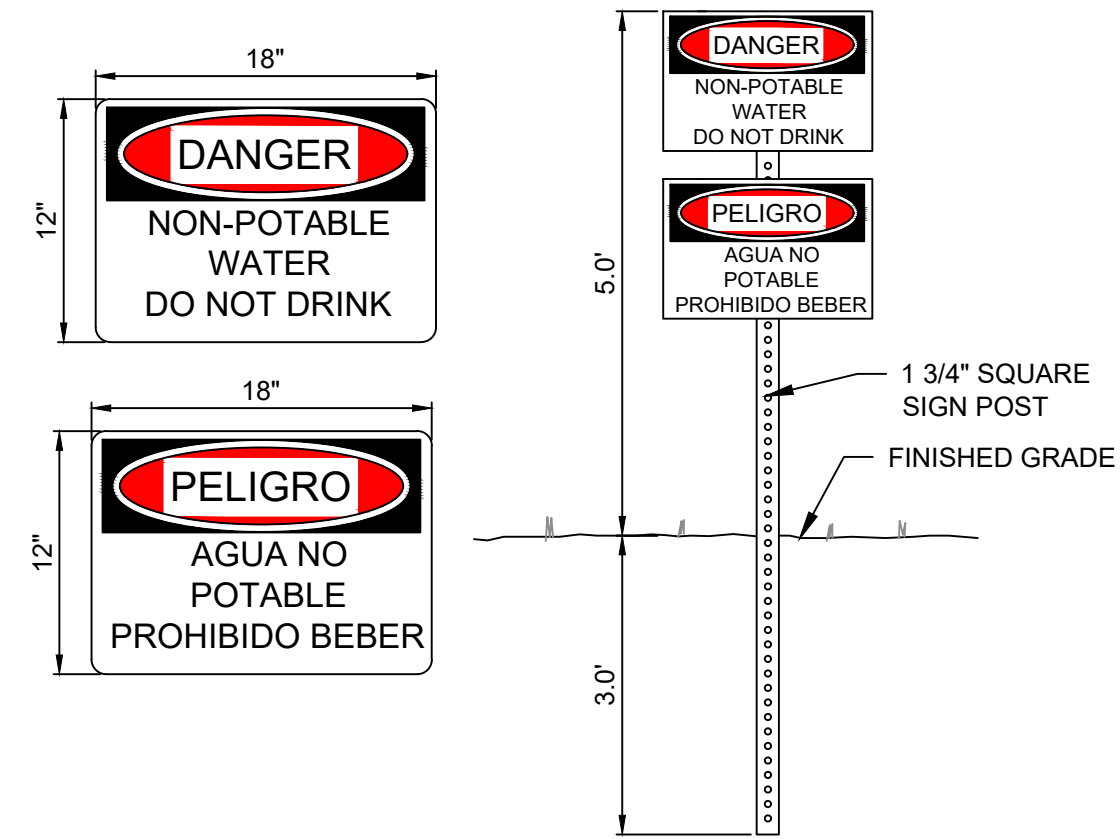
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**SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
ARV AND GATE VALVE DETAILS**

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Date: March 2024	Scale: Horiz: N/A Vert: N/A	Project No: 6432107
Sheet: DT-2		

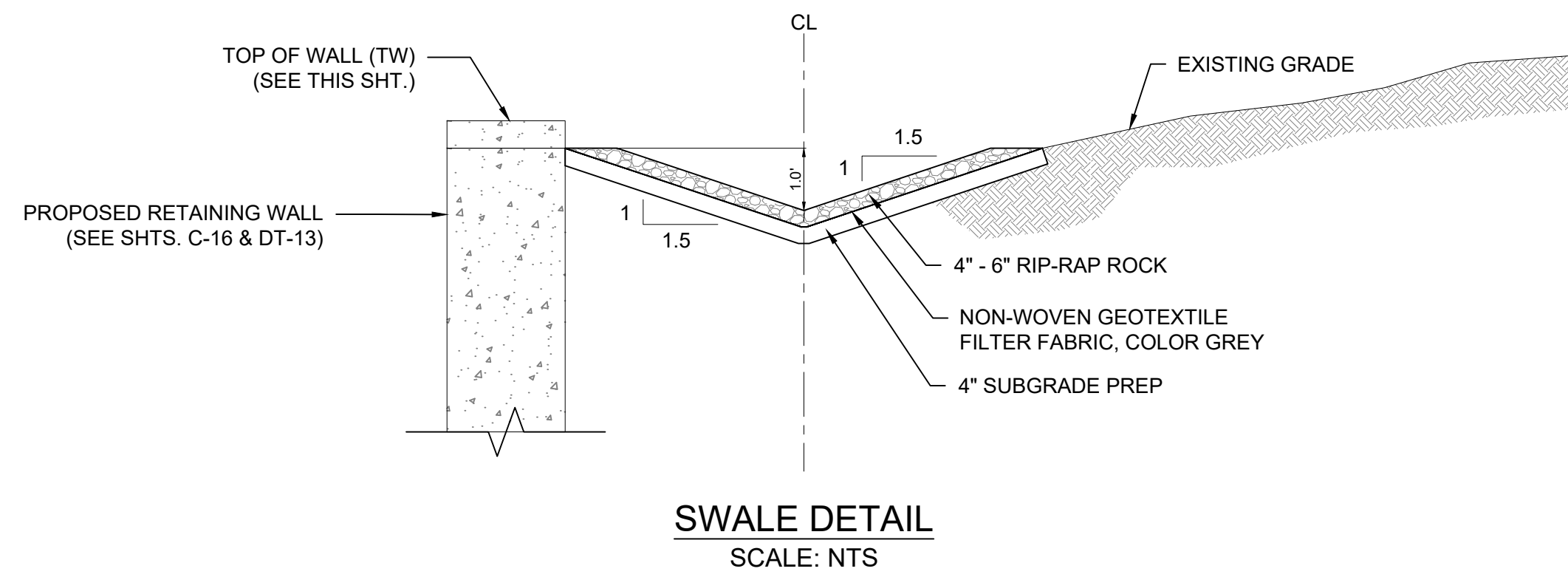


NON-POTABLE WATER WARNING SIGN AND POST DETAILS

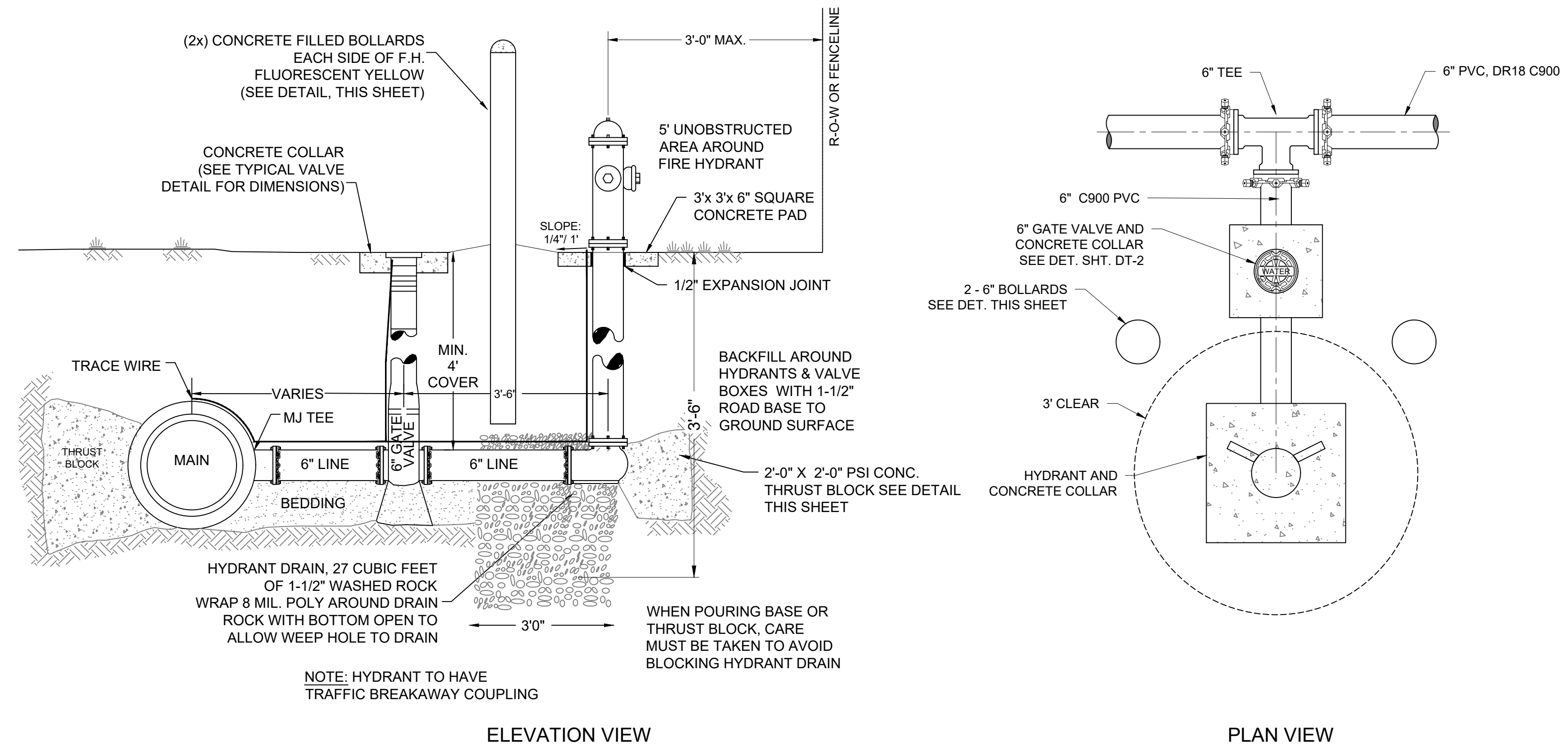
NOT TO SCALE

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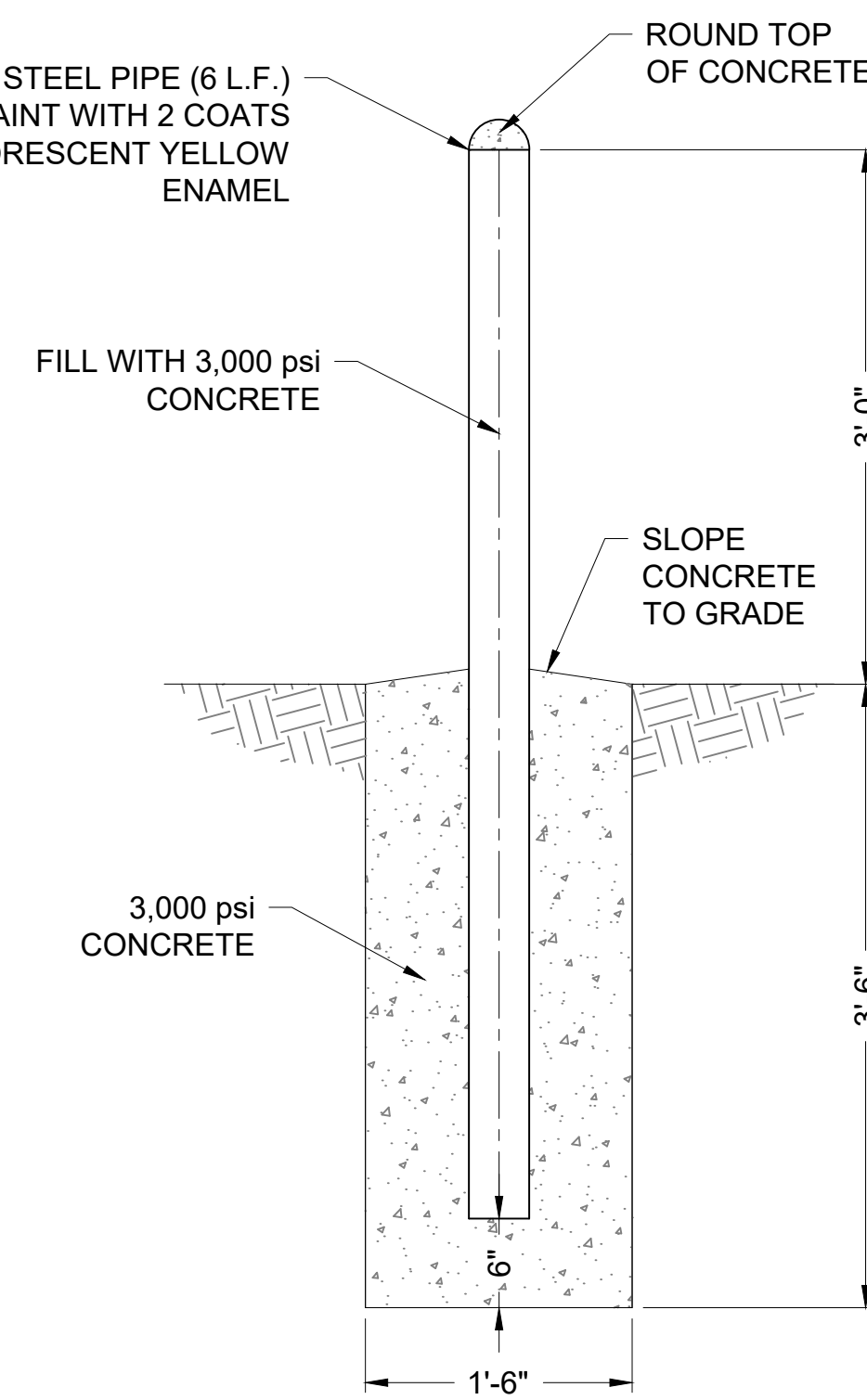
1. CONTRACTOR SHALL SUBMIT SIGN FACE DETAIL TO ENGINEER FOR REVIEW. SIGNS SHALL BE ALUMINUM SHEET.
2. CONTRACTOR SHALL PROPOSE EXACT LOCATIONS AND INSTALLATION DETAILS INCLUDING FOR "DANGER - NON-POTABLE WATER - NOT FOR DRINKING" SIGNS AROUND WWTP AND LPD SITE.



SWALE DETAIL
SCALE: NTS



FIRE HYDRANT DETAIL
NOT TO SCALE



BOLLARD DETAIL
NOT TO SCALE

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SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
FIRE HYDRANT AND SWALE DETAILS



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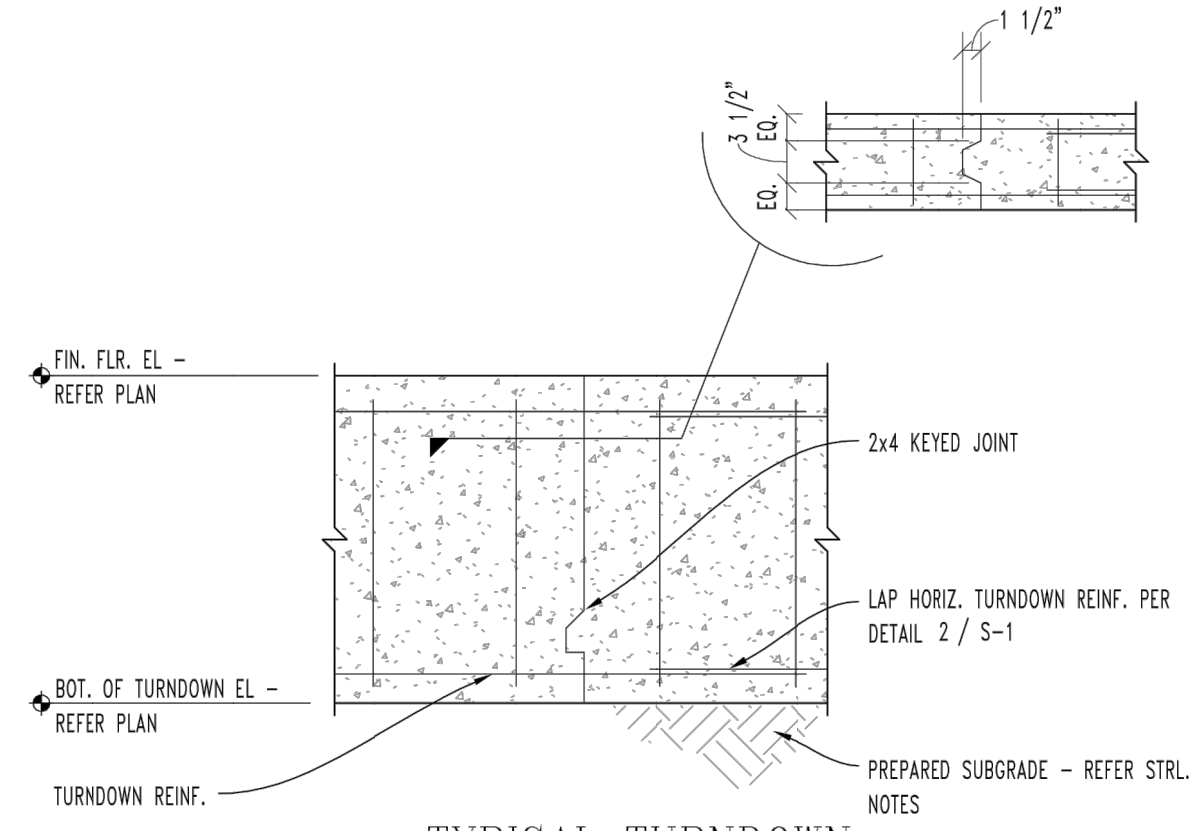
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Date: March 2024

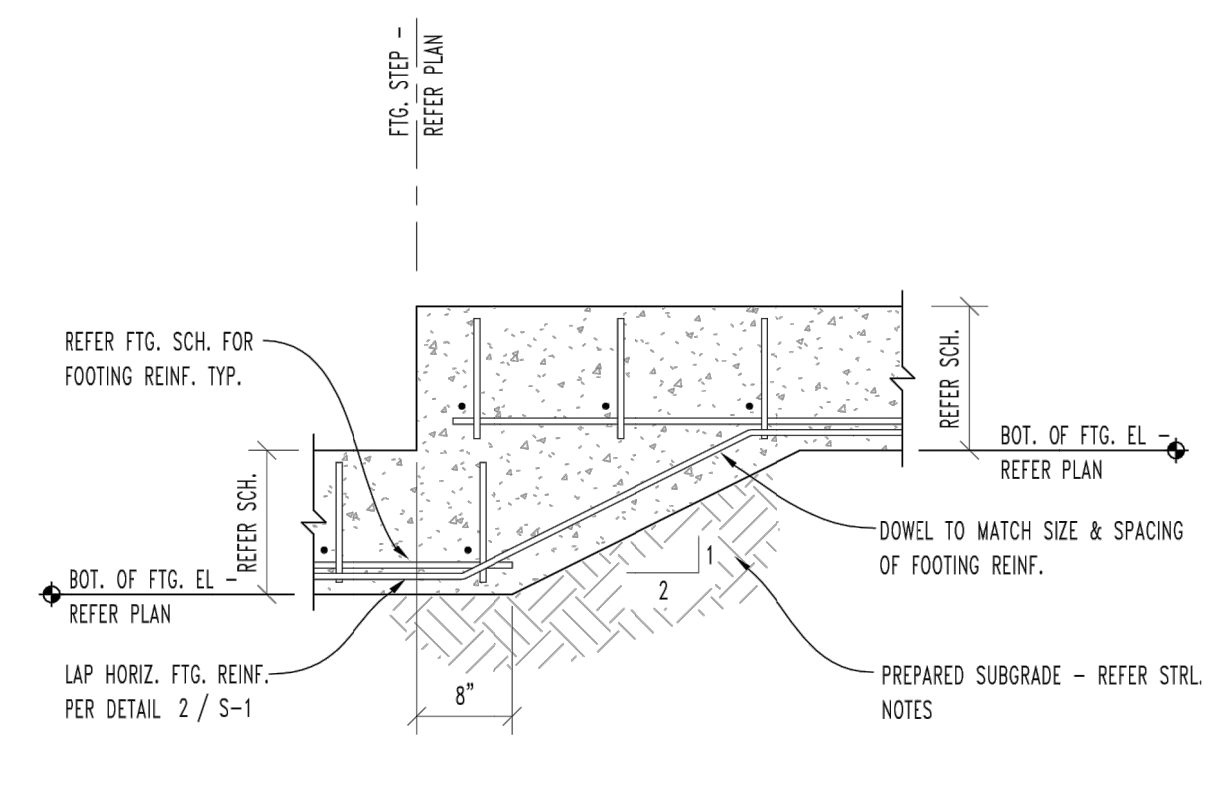
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Project No: 6432107

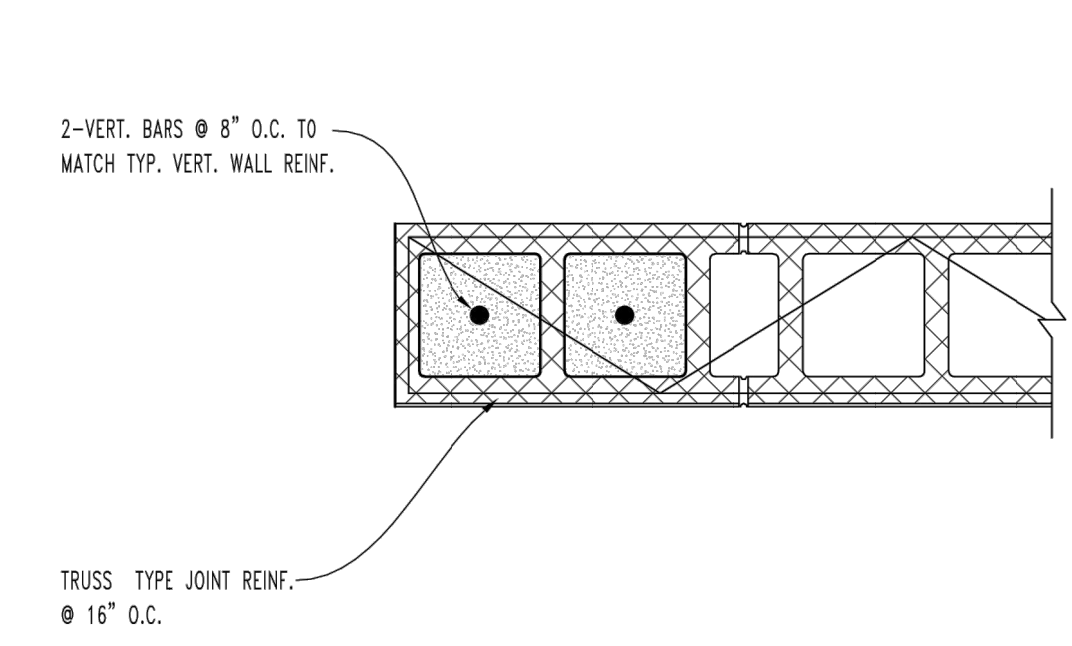
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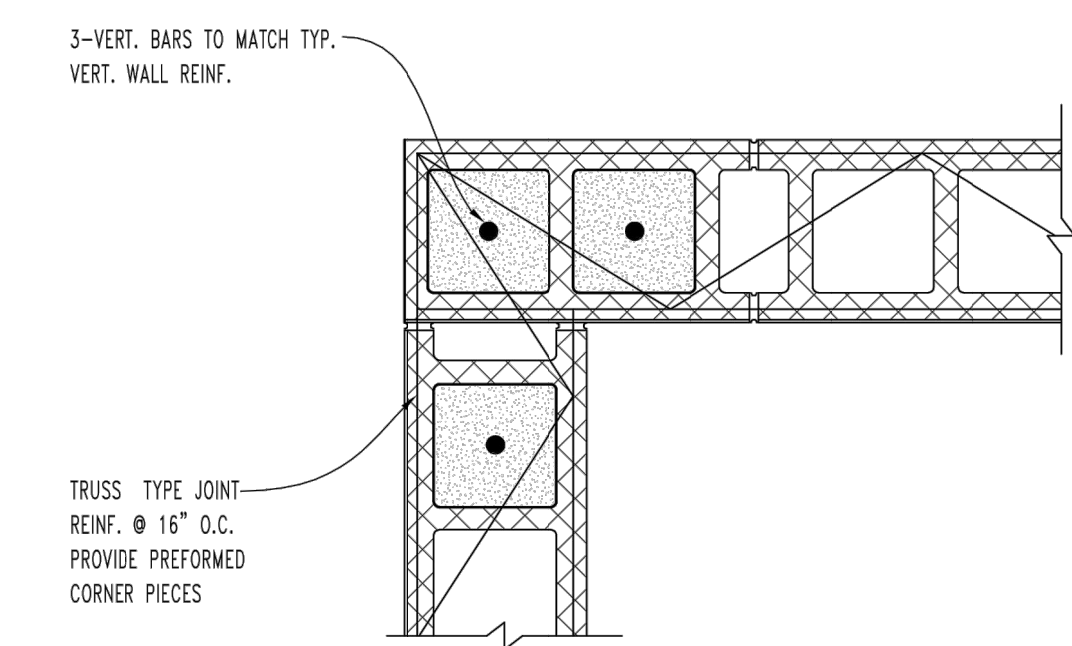
1 TYPICAL TURNDOWN CONSTRUCTION JOINTS
SCALE: 3/4" = 1'-0"



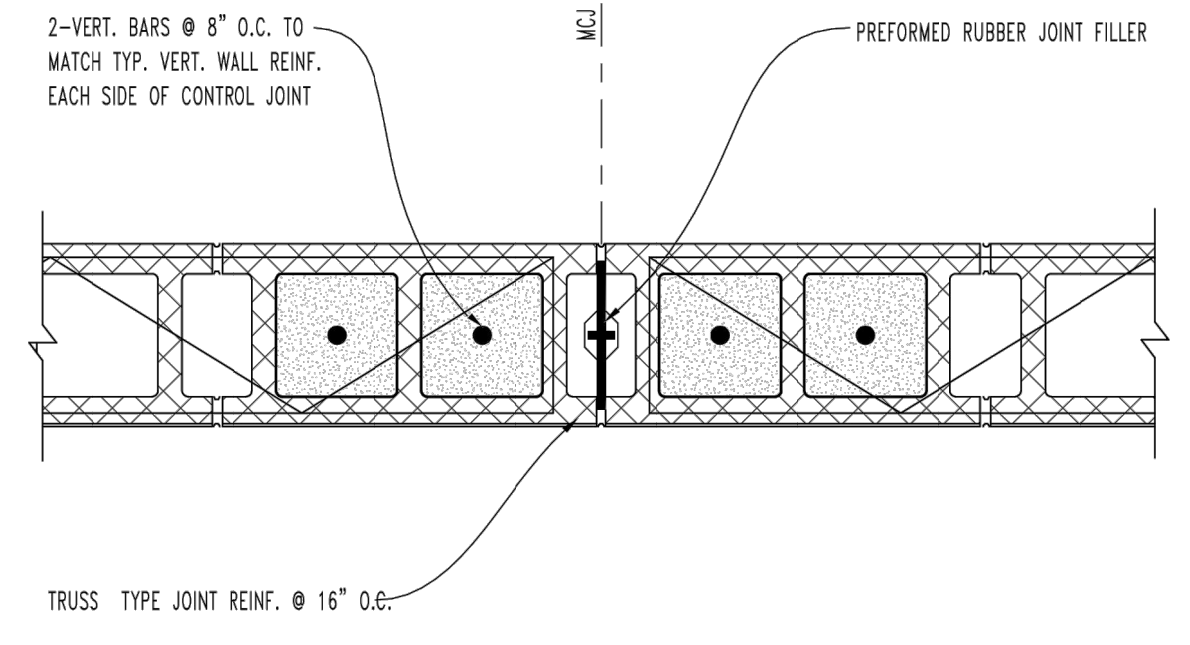
2 TYPICAL FOOTING STEP
SCALE: 3/4" = 1'-0"



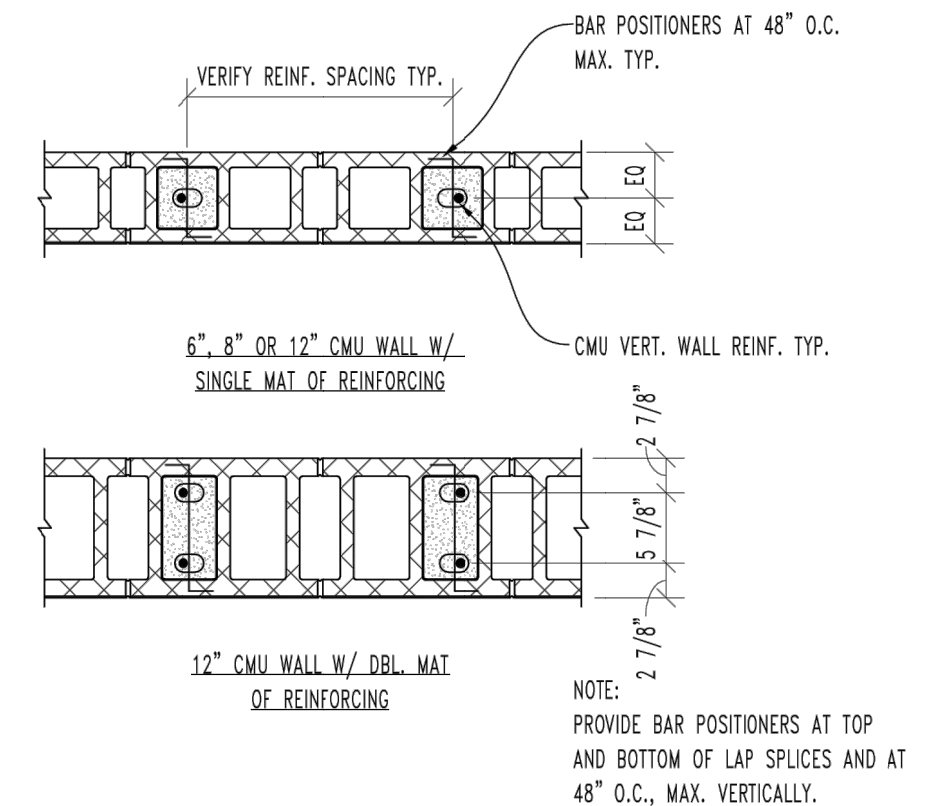
3 TYPICAL WALL JAMB
SCALE: 1 1/2" = 1'-0"



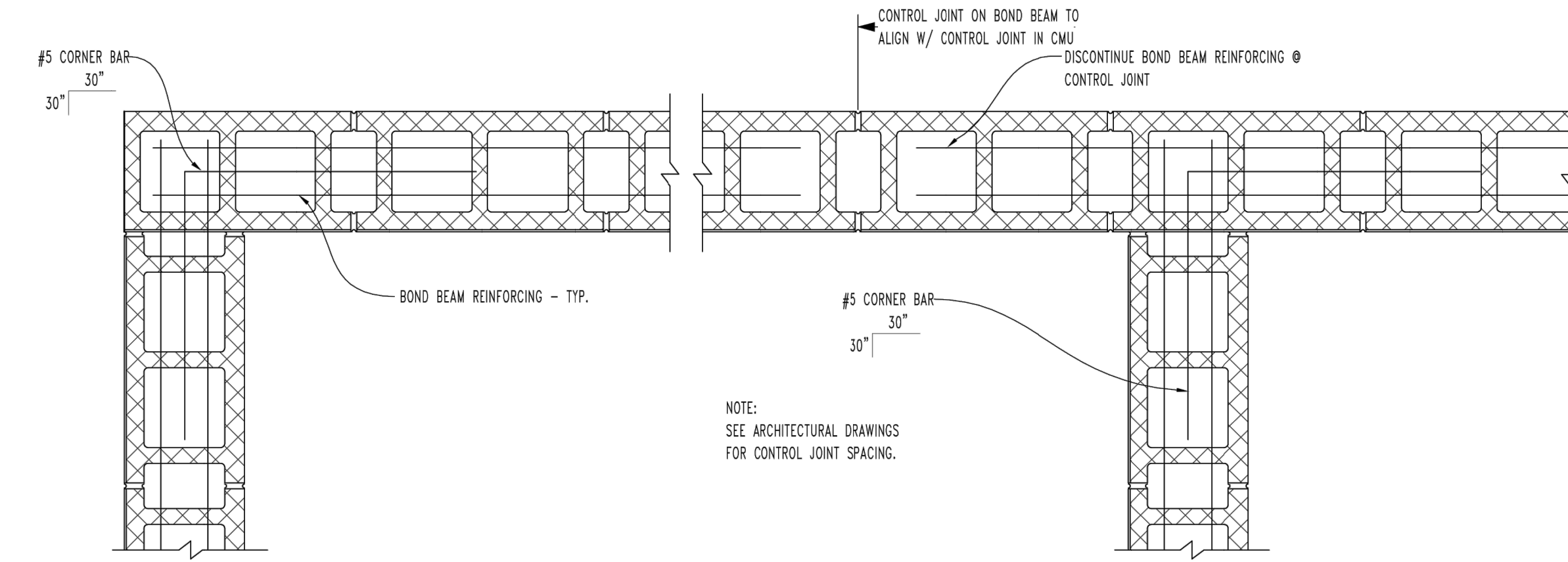
4 TYPICAL WALL CORNER
SCALE: 1 1/2" = 1'-0"



5 TYPICAL MASONRY CONTROL JOINT
SCALE: 1 1/2" = 1'-0"



6 TYPICAL CMU BAR PLACEMENT DETAIL
SCALE: 3/4" = 1'-0"

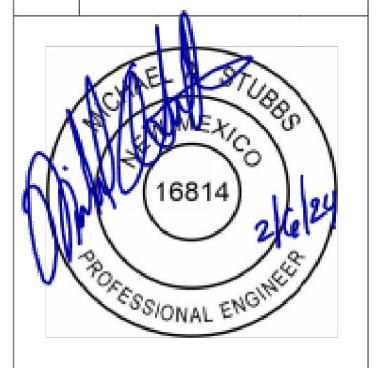


7 TYPICAL CORNER BARS AT BOND BEAMS DETAIL
SCALE: N.T.S.

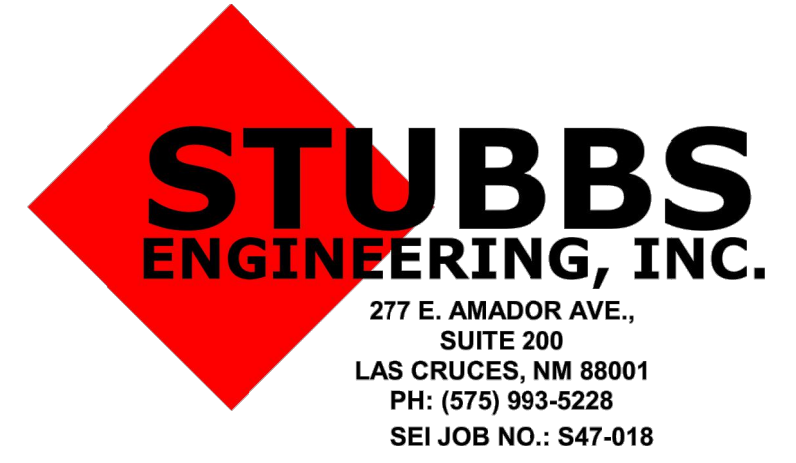
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SANDOVAL COUNTY PLACITAS, NEW MEXICO
SANDOVAL COUNTY FIRE 41 TANK PROJECT
 PLACITAS, NEW MEXICO
STRUCTURAL DETAILS



Designed DSG	Drawn DRN	Checked SEI
Date:	2024-02-06	
Scale:	Horiz: Vert:	
Project No:	6432107	
Sheet:	S-1.1	

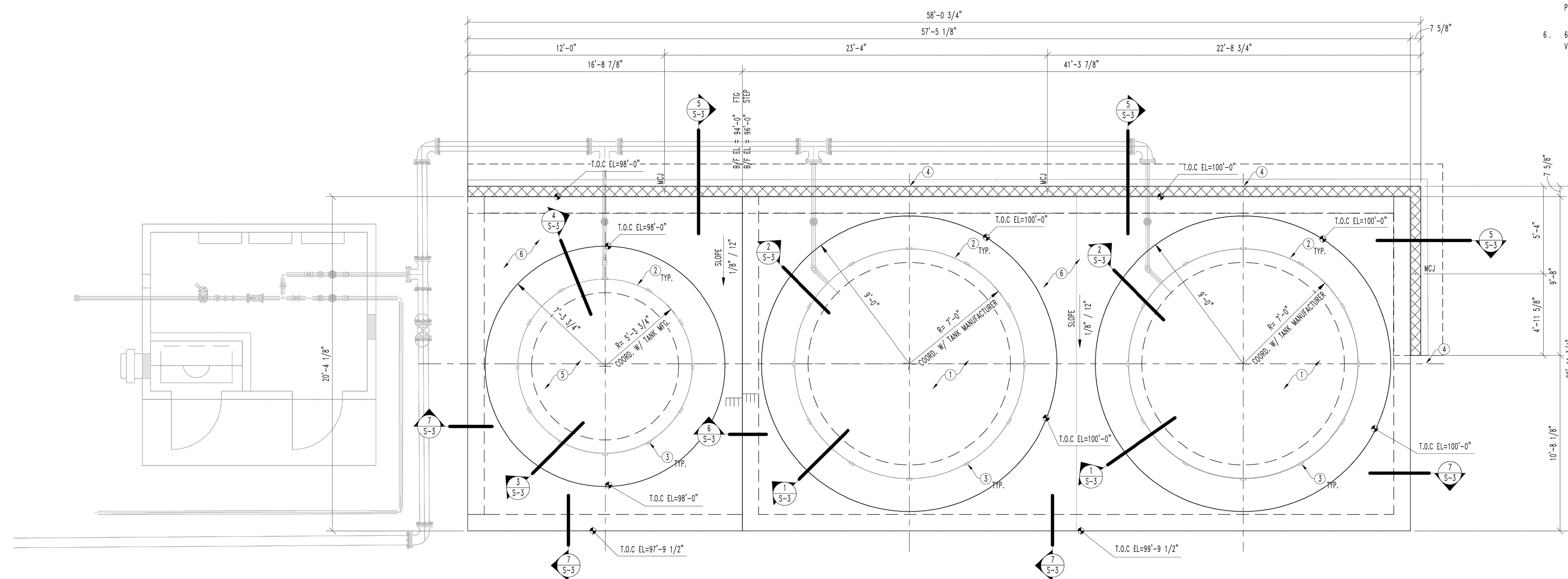


PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.
 MCJ INDICATES A MASONRY CONTROL JOINT. REFERENCE DETAIL 5 / S-1.1.
 EXISTING CONSTRUCTION SHOWN IS PER AVAILABLE INFORMATION.
 CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.

KEY NOTES

- 12" CONCRETE SLAB WITH 2 MATS OF #5 @ 12" O.C. OVER 15 MIL VAPOR BARRIER AND PREPARED SUBGRADE.
- CHANNEL RING TO BE SIZED AND LOCATED BY TANK MANUFACTURER.
- LEVELING ANGLES TO BE SIZED AND LOCATED BY TANK MANUFACTURER.
- CENTER LINE OF TANK. COORDINATE WITH TANK MANUFACTURER.
- 12" CONCRETE SLAB WITH 2 MATS OF #6 @ 12" O.C. OVER 15 MIL VAPOR BARRIER AND PREPARED SUBGRADE.
- 6" CONCRETE SLAB WITH #4 @ 16" O.C. EACH WAY CENTERED IN SLAB OVER 15 MIL VAPOR BARRIER AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES.



FOUNDATION PLAN

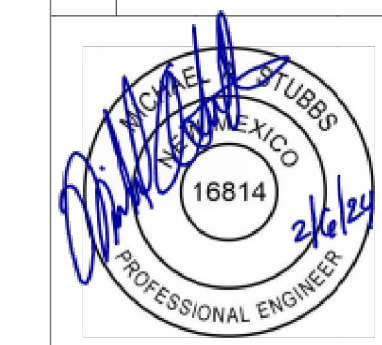
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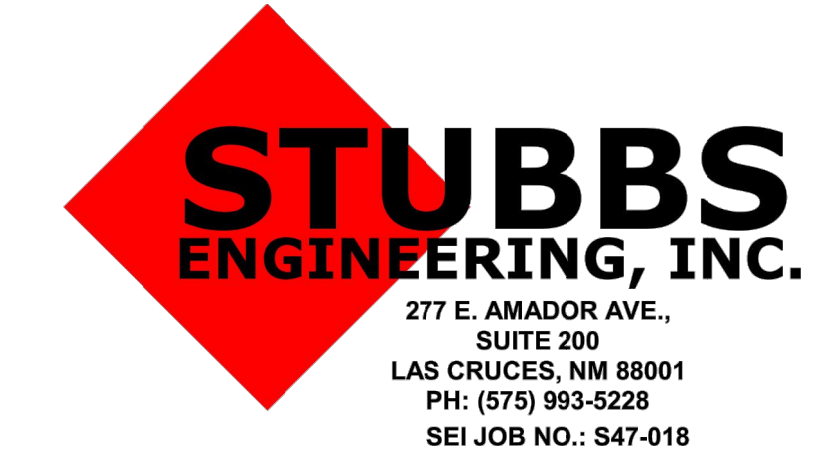
Rev#	Date	Description	By	CHKD

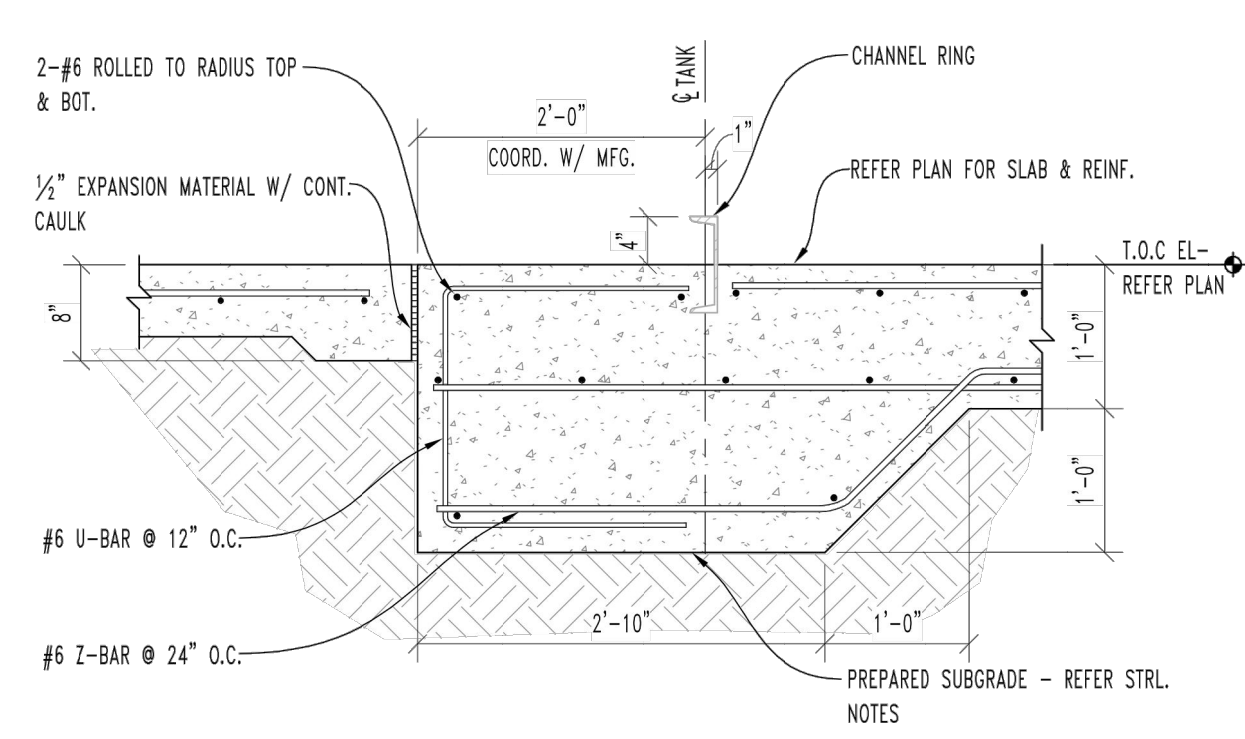
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SANDOVAL COUNTY FIRE 41 TANK PROJECT
 PLACITAS, NEW MEXICO
FOUNDATION PLAN

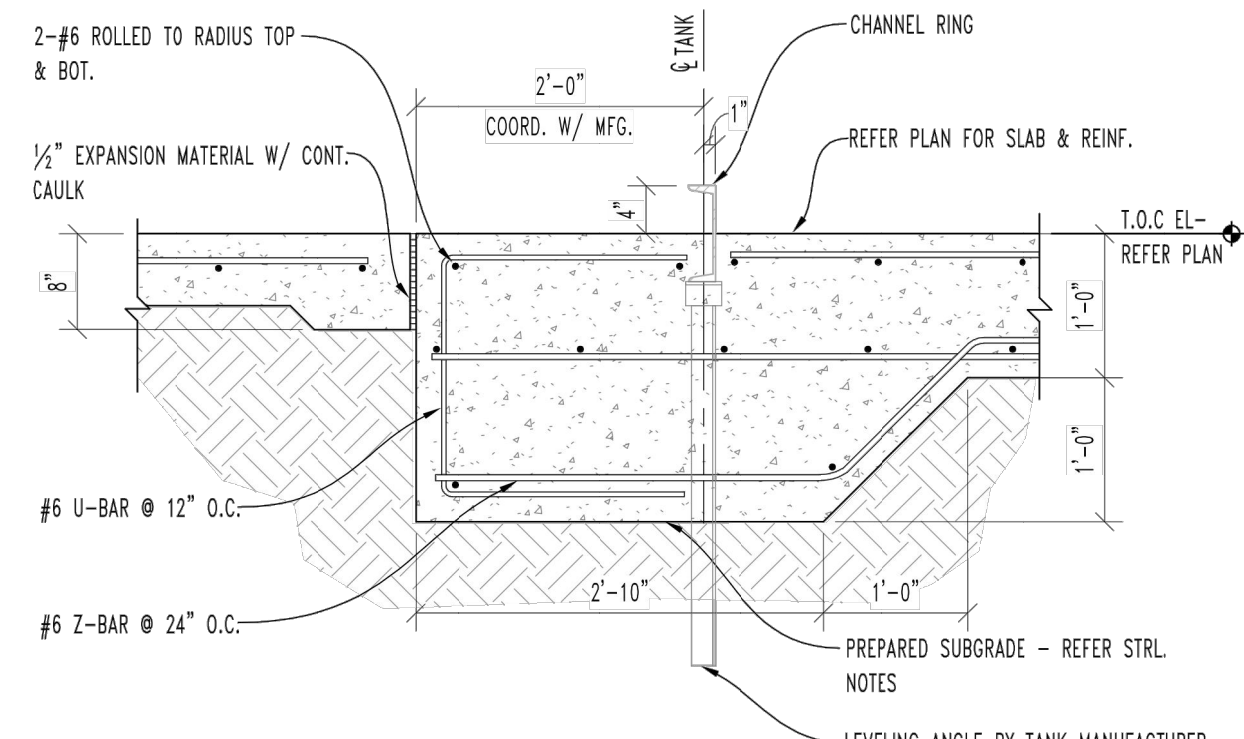


Designed DSG	Drawn DRN	Checked SEI
Date:	2024-02-06	
Scale:	Horiz:	
	Vert:	
Project No:	6432107	
Sheet:	S-2	

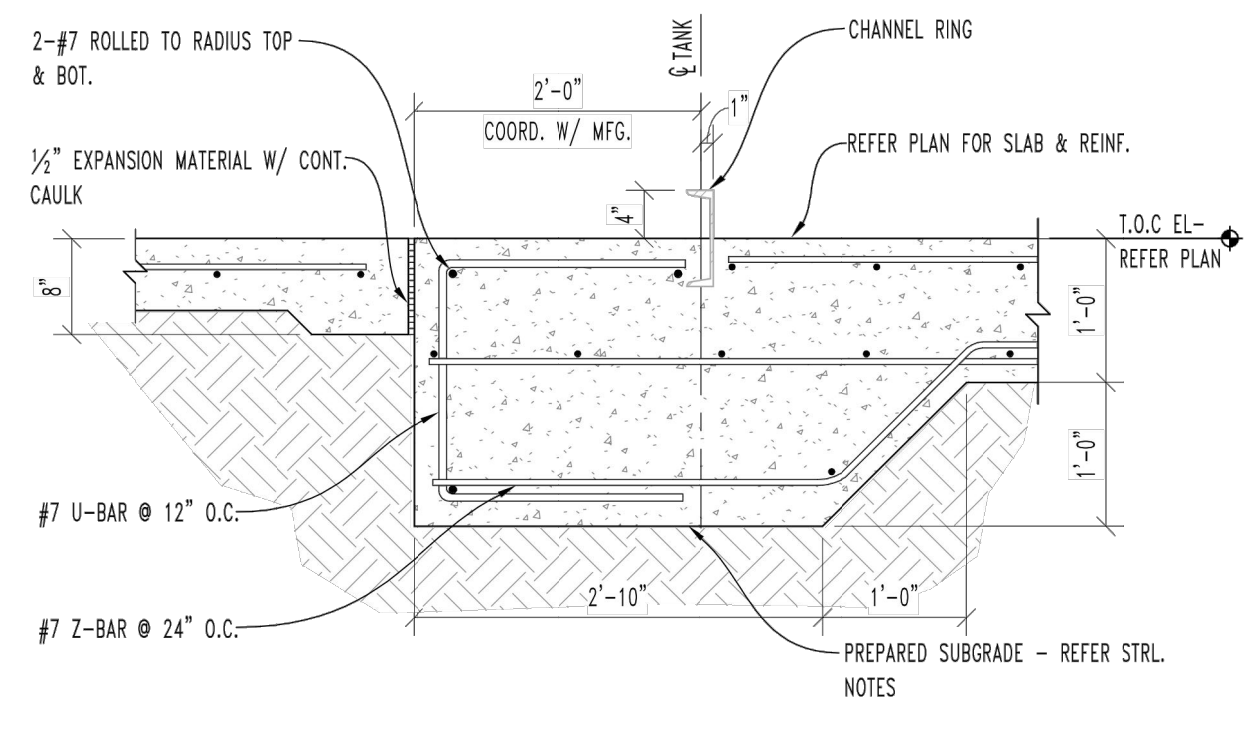




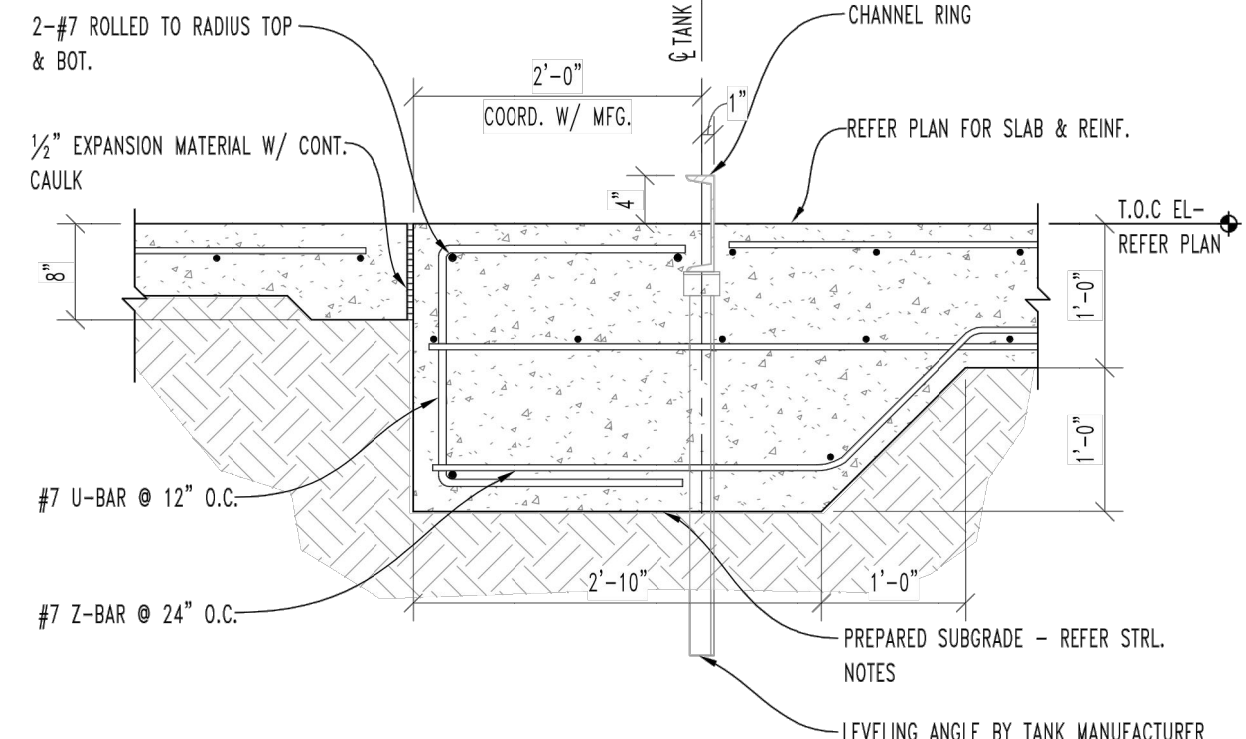
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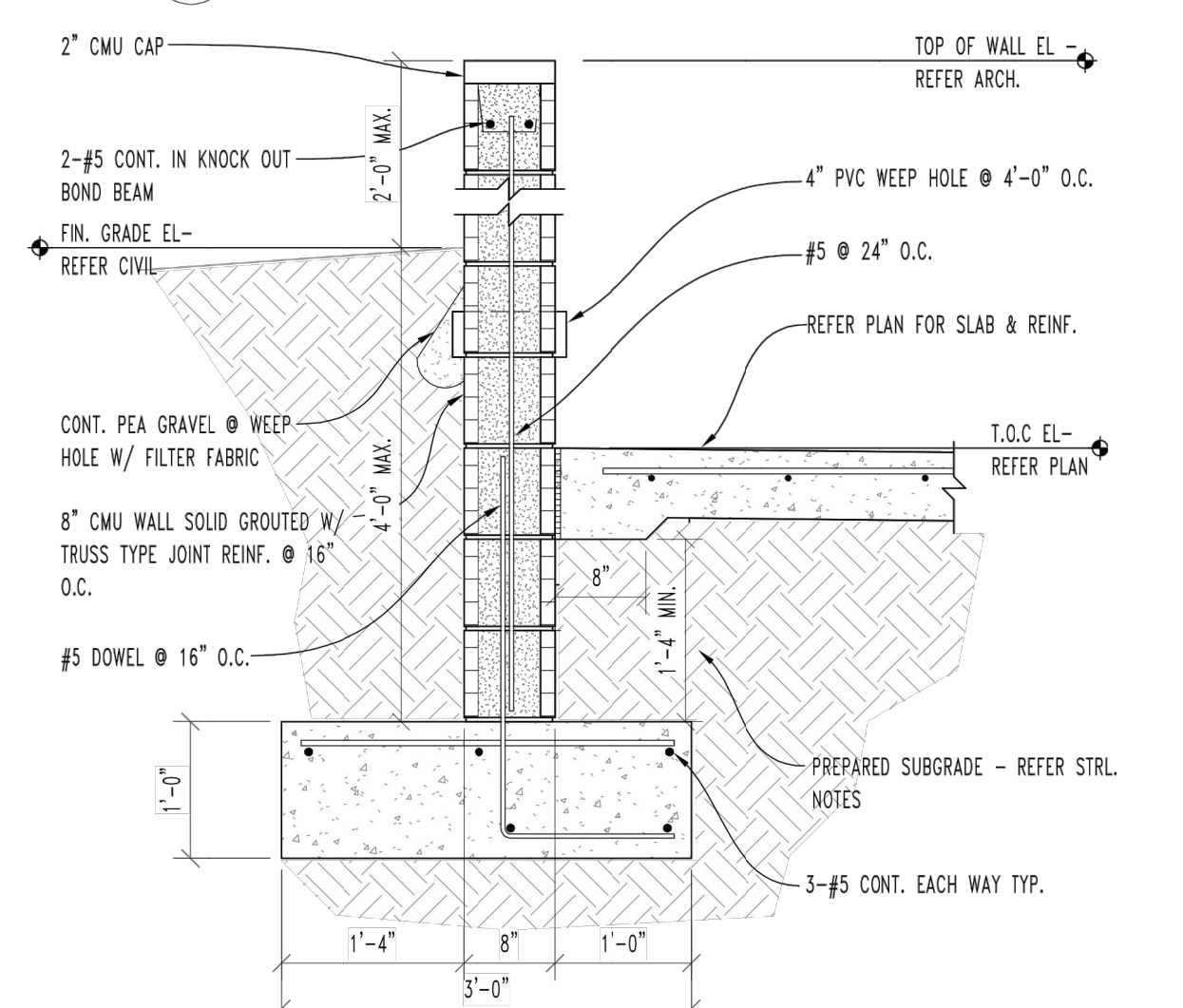
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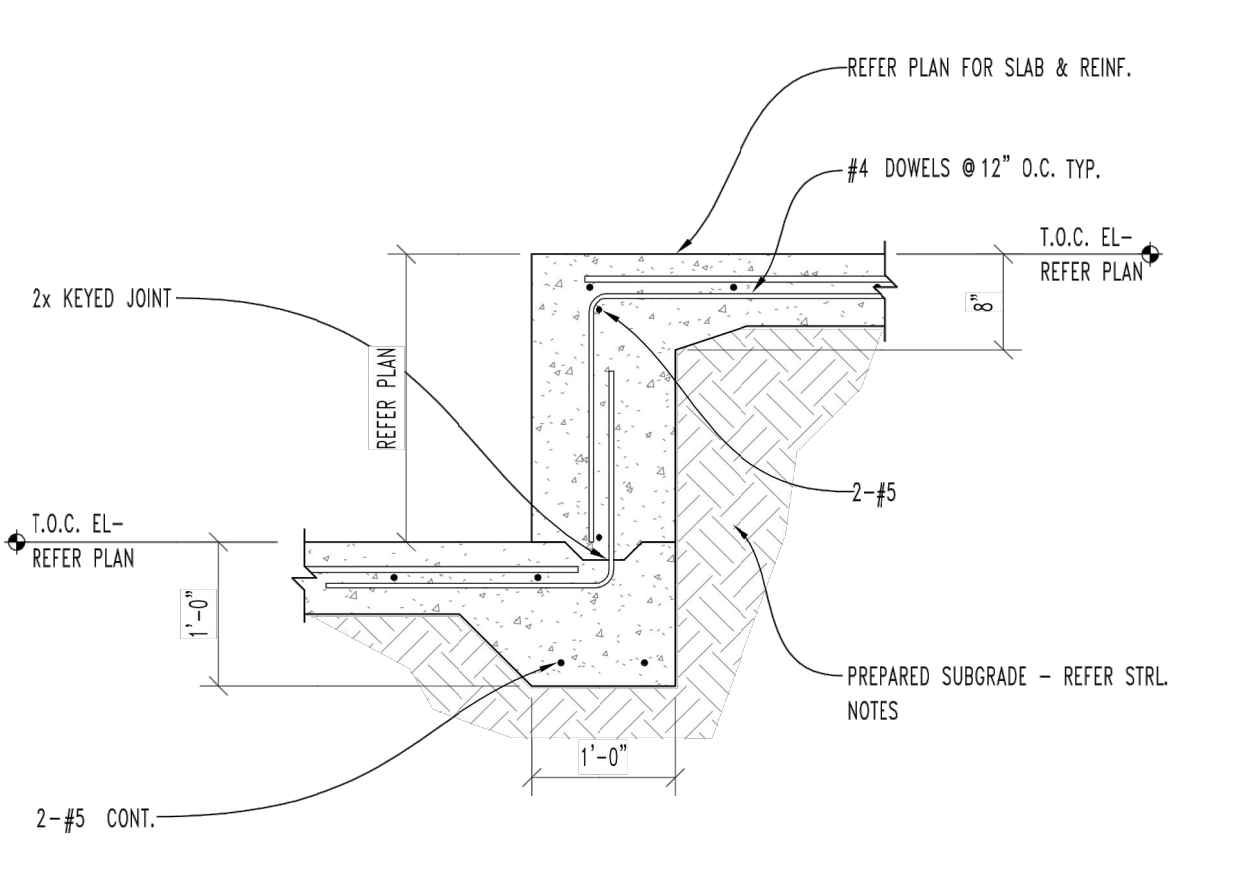
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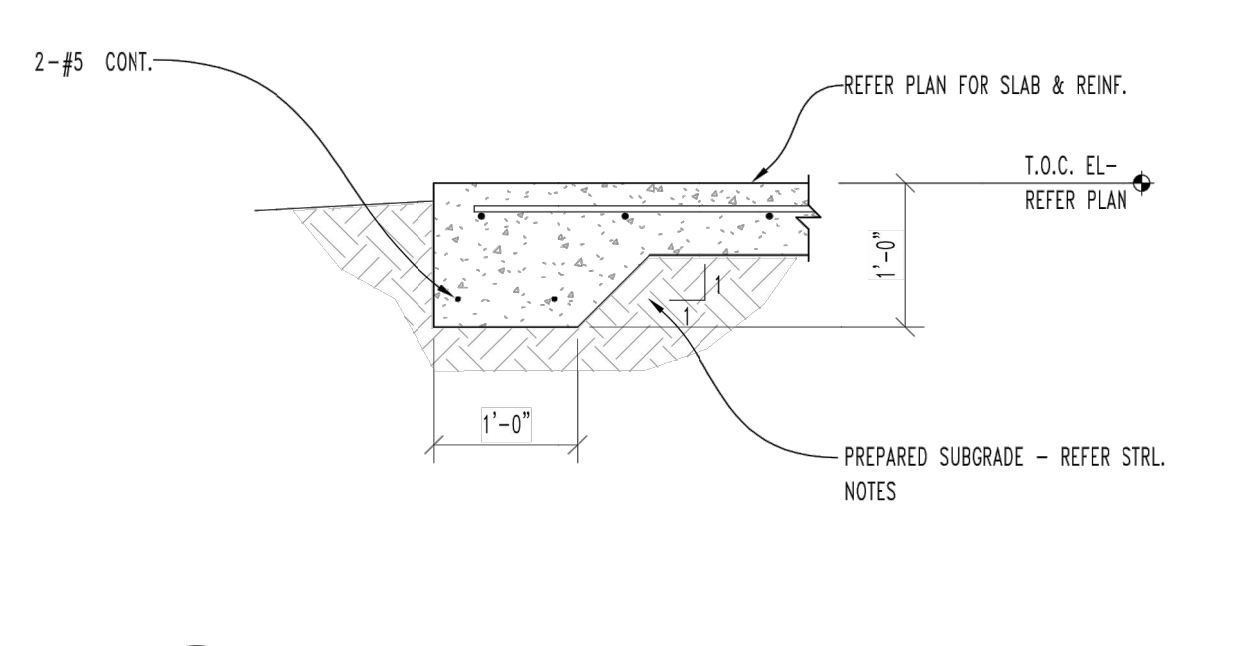
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5 SCALE: 3/4" = 1'-0"



6 SCALE: 3/4" = 1'-0"

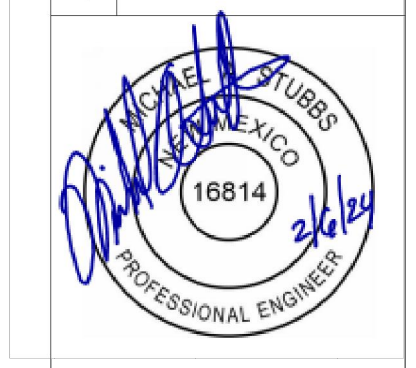


7 SCALE: 3/4" = 1'-0"

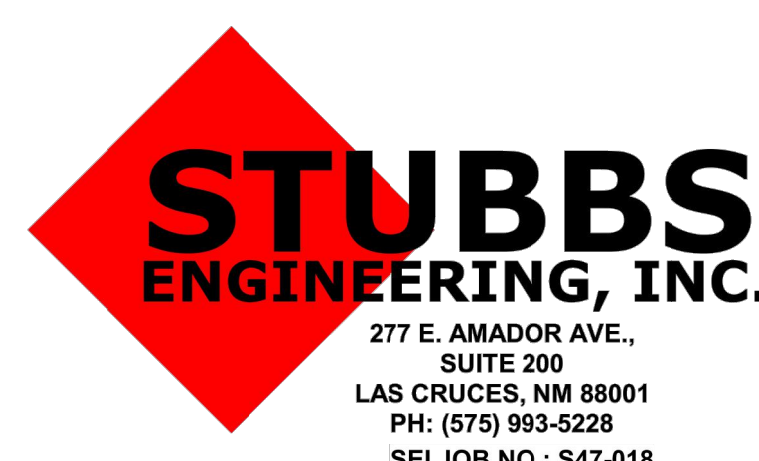
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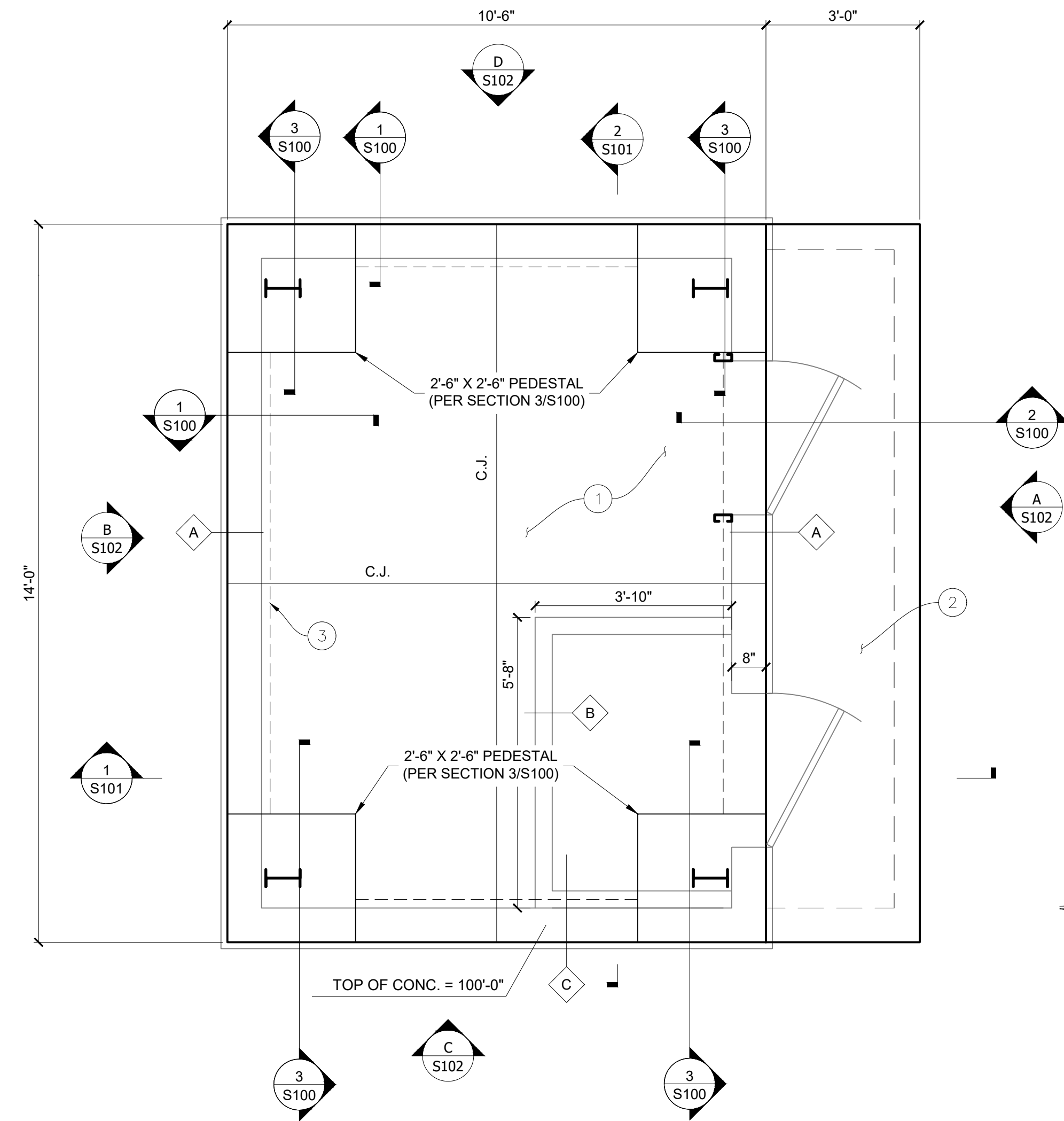
SANDOVAL COUNTY PLACITAS, NEW MEXICO
SANDOVAL COUNTY FIRE 41 TANK PROJECT
 PLACITAS, NEW MEXICO
FOUNDATION DETAILS



Designed DSG	Drawn DRN	Checked SEI
Date:	2024-02-06	
Scale:	Horiz: Vert:	
Project No:	6432107	
Sheet:	S-3	



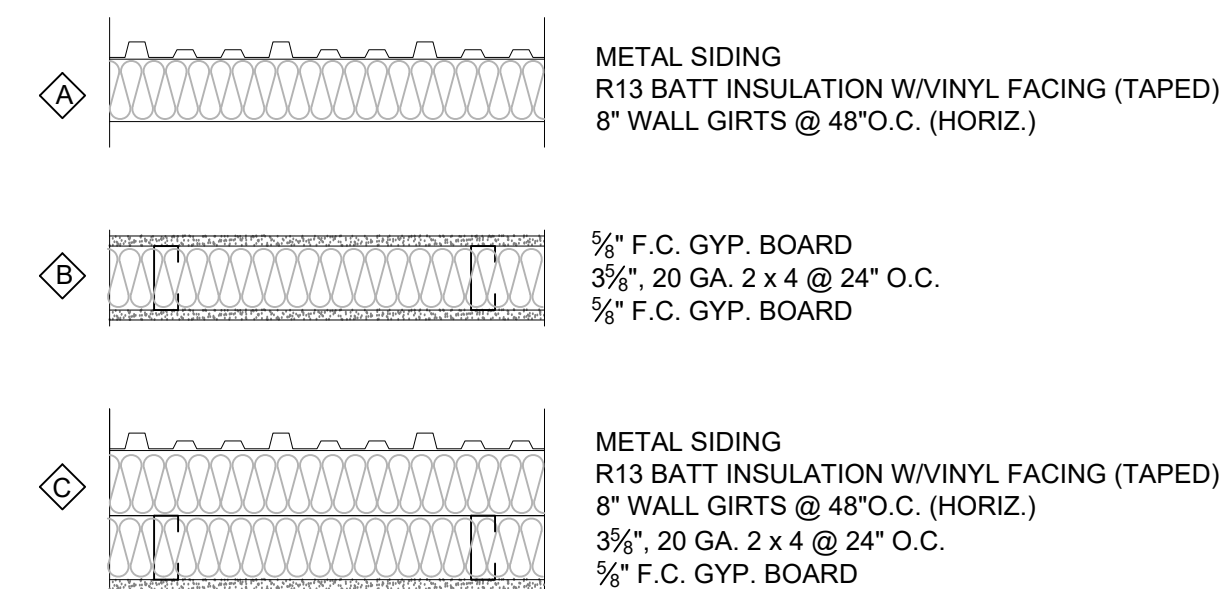
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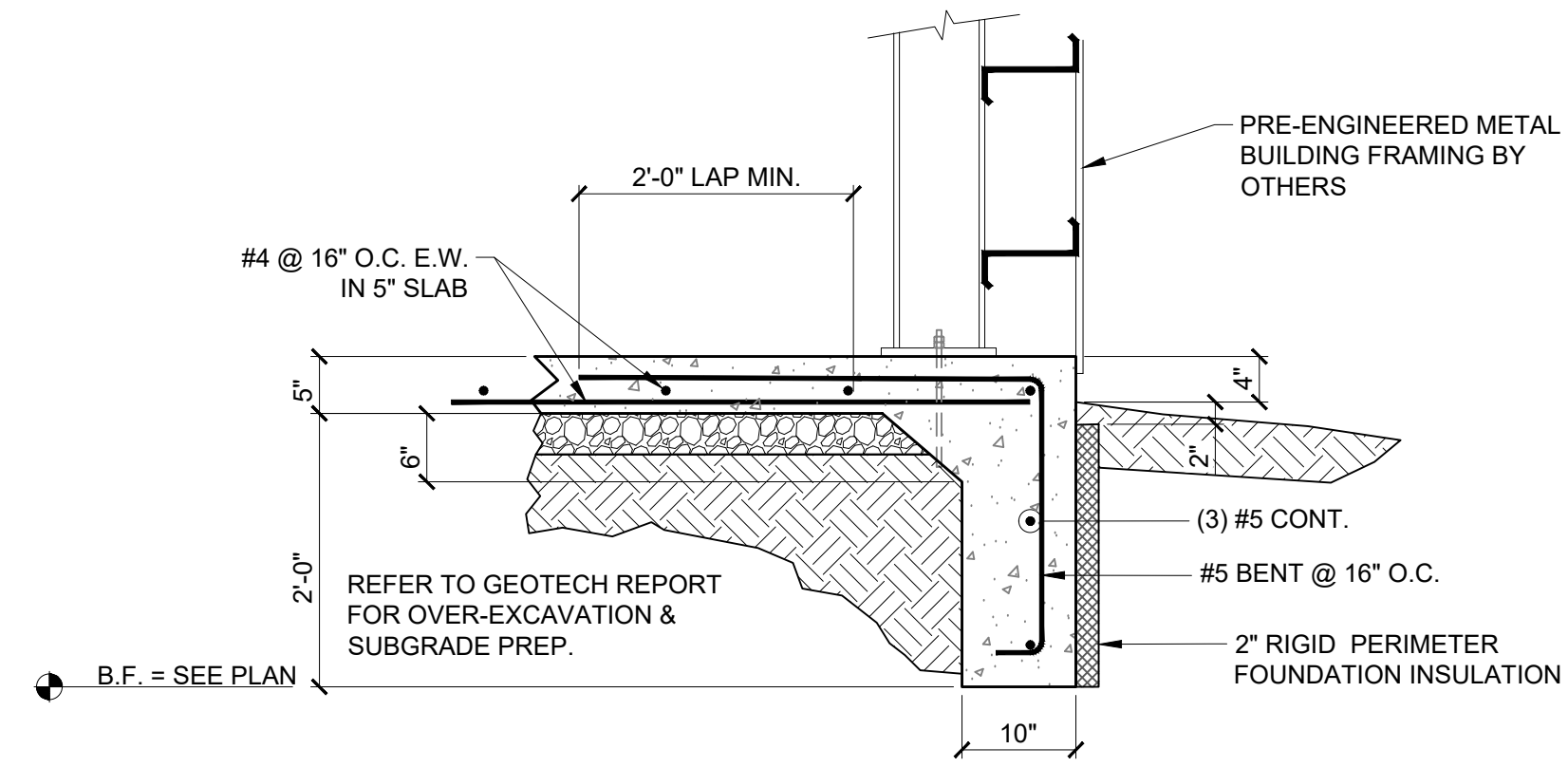
A
S100
FOUNDATION PLAN
SCALE: 1/2" = 1'-0"
GRAPHIC SCALE

KEYED NOTES

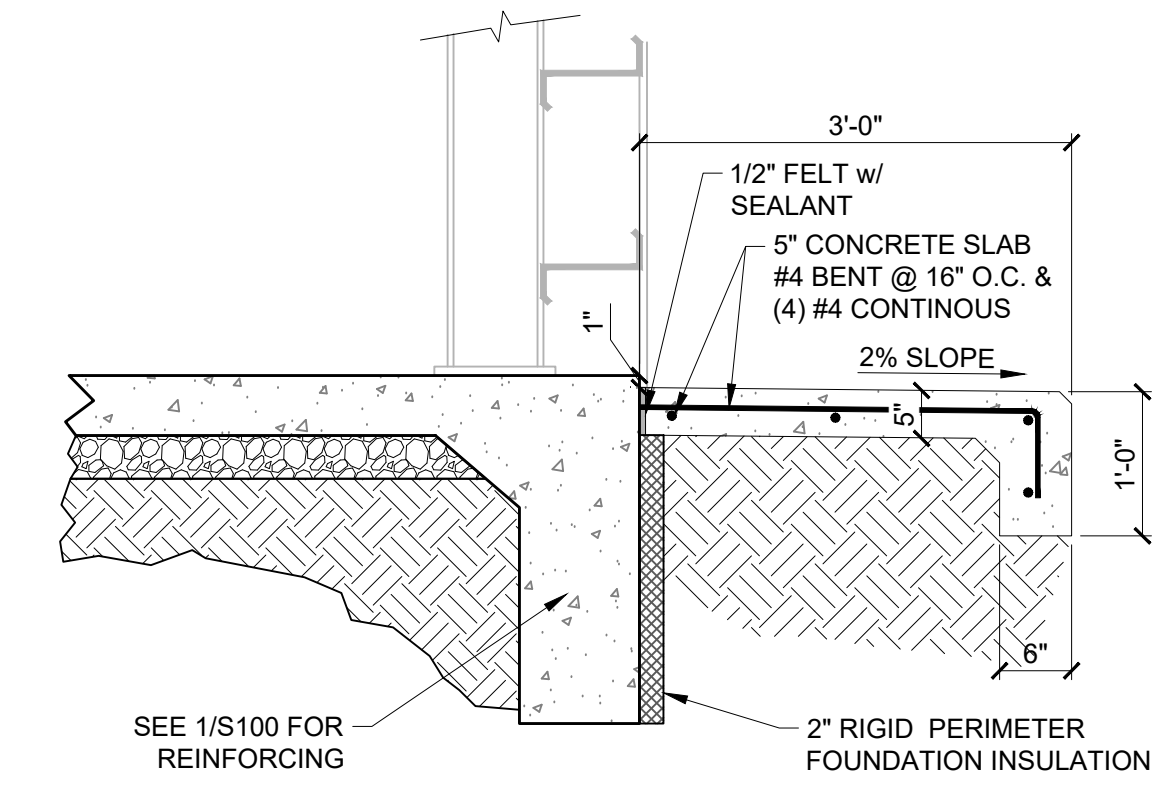
- 1 5" THICK CONCRETE SLAB w/#4 @ 16" O.C.E.W.
- 2 5" THICK CONCRETE SLAB w/#4 @ 16" O.C.E.W.
- 3 COLUMN LOCATION ESTIMATED. VERIFY WITH PRE-ENGINEERED BUILDING MANUFACTURER'S FINAL DRAWINGS.



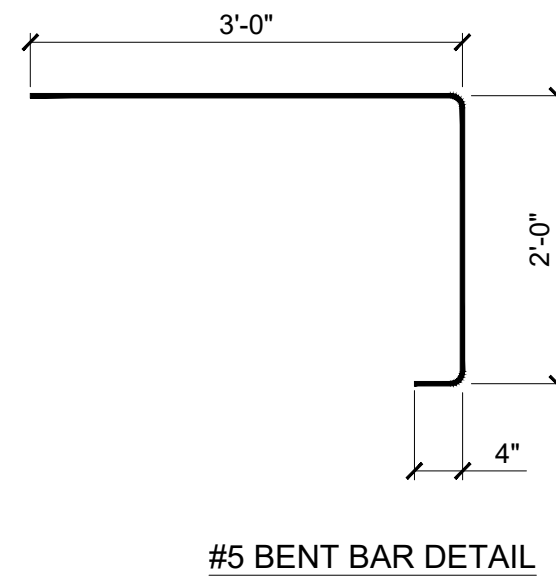
WALL TYPE SCHEDULE
N.T.S.



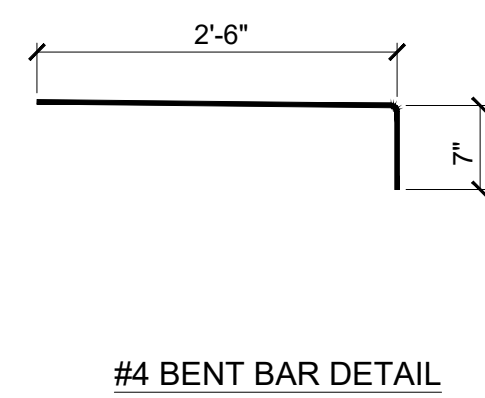
1
S100
CONTINUOUS FOOTING SECTION
SCALE: 3/4" = 1'-0"



2
S100
PORCH SECTION
SCALE: 3/4" = 1'-0"

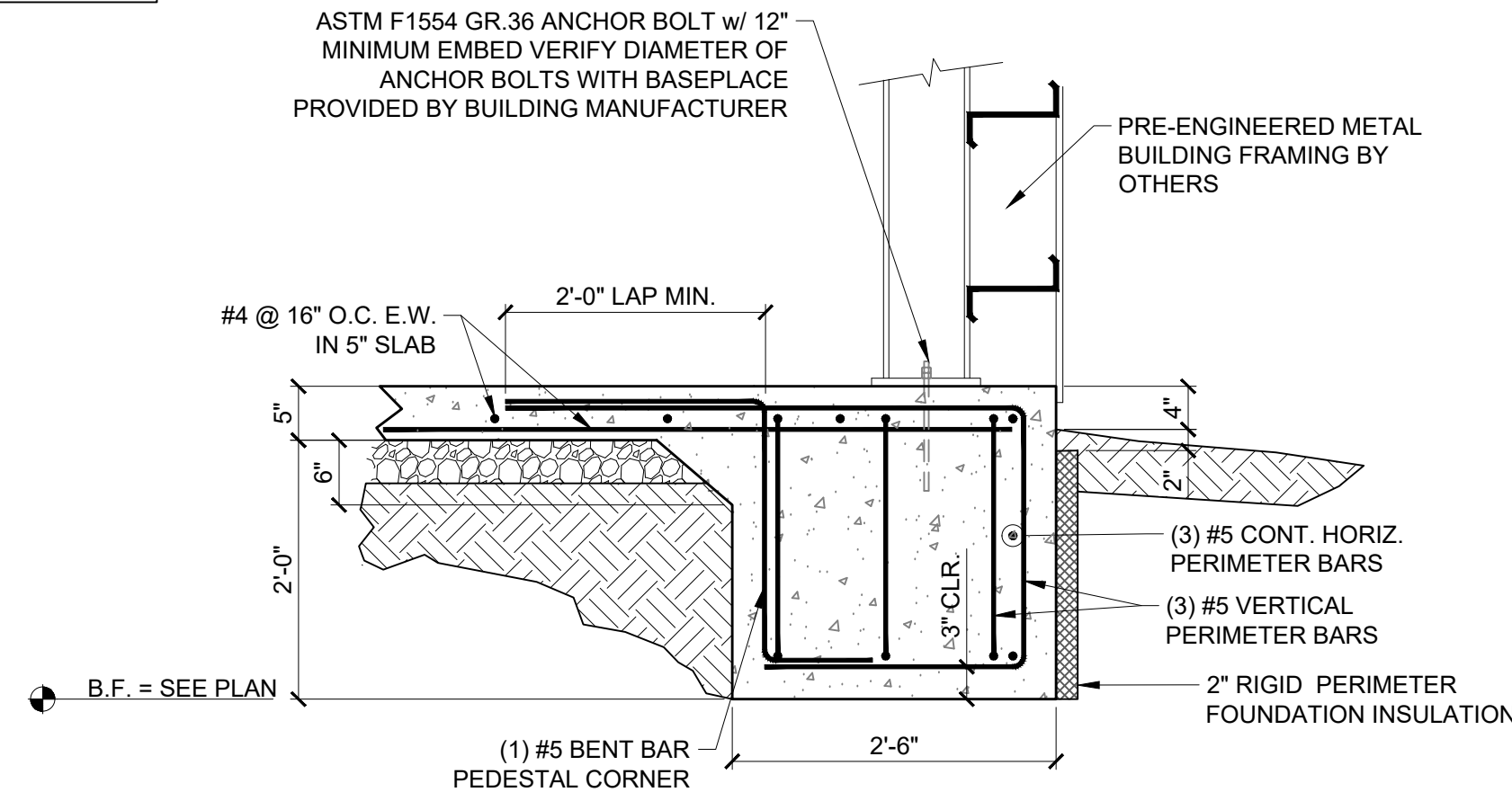


1
S100
#5 BENT BAR DETAIL
SCALE: 3/4" = 1'-0"

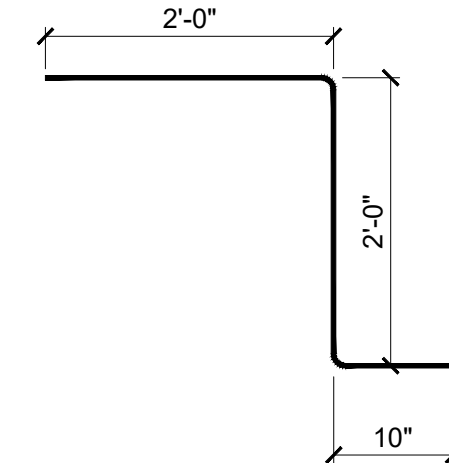


2
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#4 BENT BAR DETAIL
SCALE: 3/4" = 1'-0"

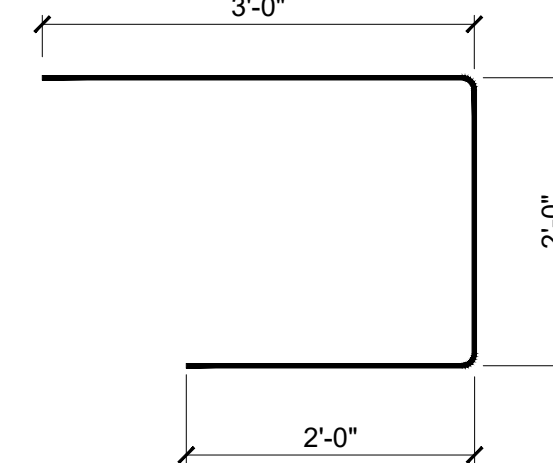
NOTE:
A. ENGINEER TO REVIEW LOCATIONS OF COLUMNS DURING SUBMITTAL. ADJUSTMENTS TO PEDESTAL BUMPOUTS MAY BE REQUIRED.



3
S100
CORNER COLUMN SECTION
SCALE: 3/4" = 1'-0"



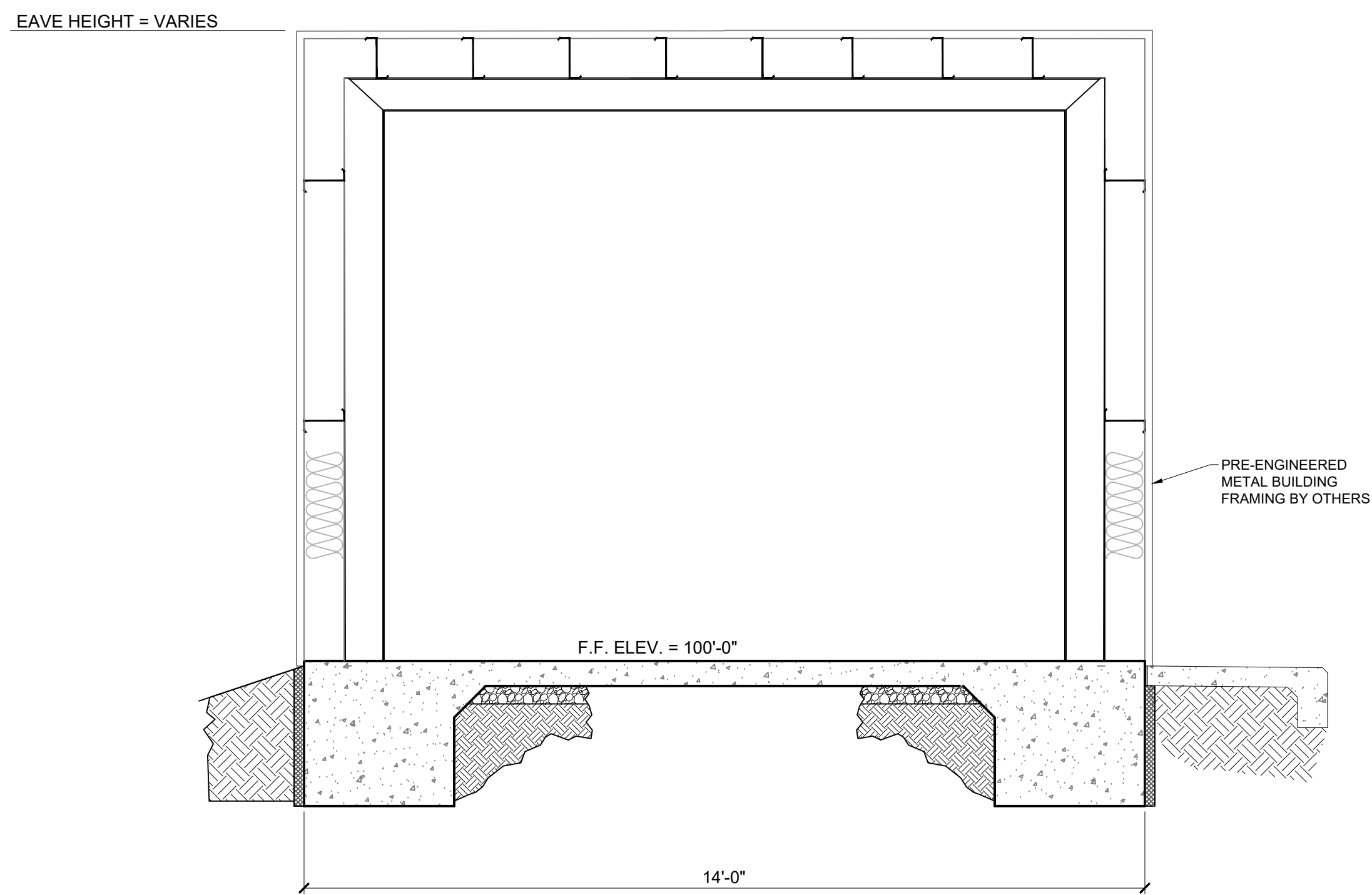
1
S100
#5 BENT BAR DETAIL
(PEDESTAL CORNER)
SCALE: 3/4" = 1'-0"



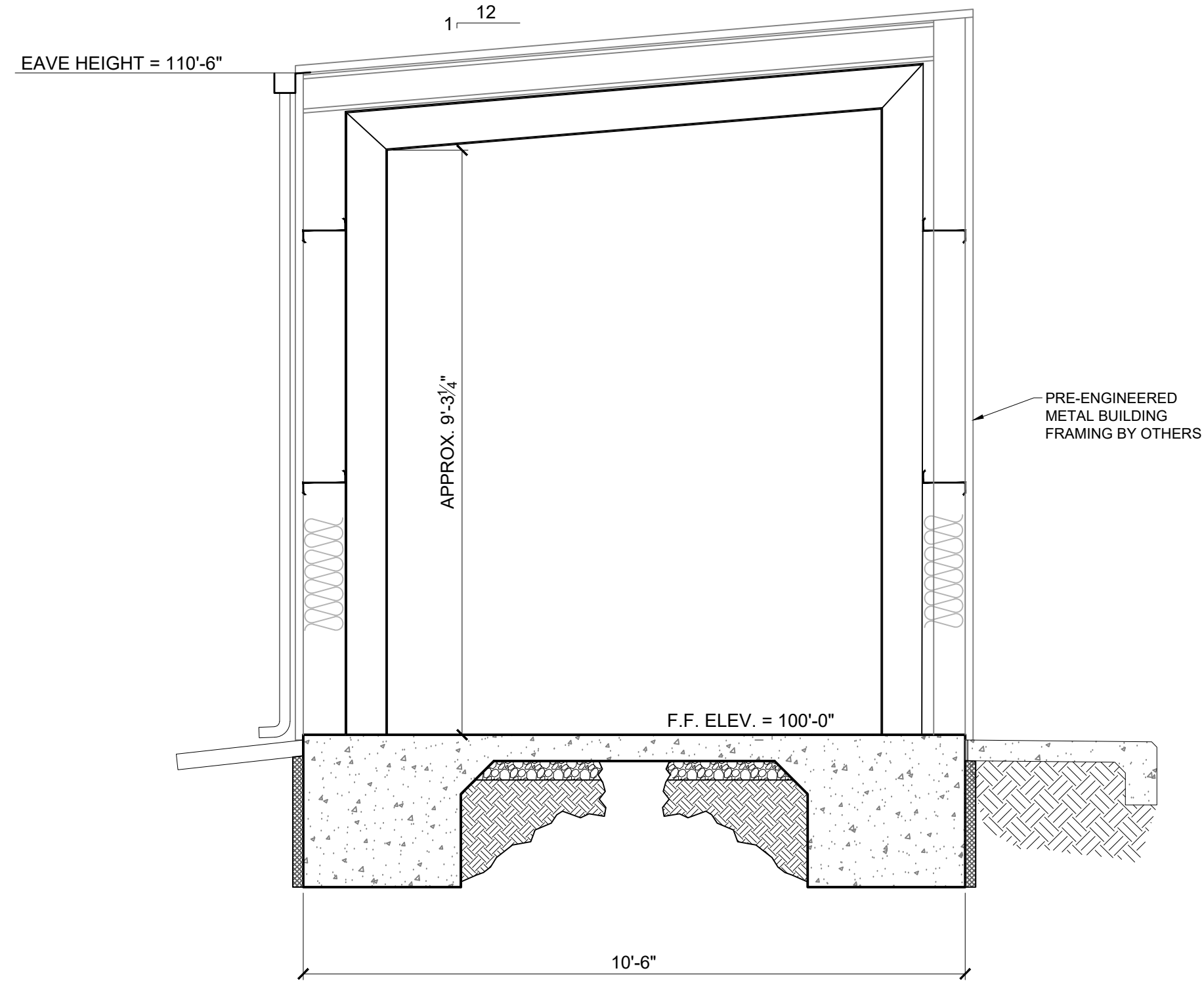
2
S100
#5 BENT BAR DETAIL
(VERTICAL PERIMETER BARS)
SCALE: 3/4" = 1'-0"

By	CHKD
Description	
Rev#	Date
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SANDOVAL COUNTY	PLACITAS, NEW MEXICO
<p>SANDOVAL COUNTY FIRE STATION 41 WATER SYSTEM IMPROVEMENTS PROJECT PLACITAS, NEW MEXICO FOUNDATION SECTIONS</p>	
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>	
Designed	Checked
KPC	JMG
Drawn	
MVH	
Date:	March 2024
Scale:	Horiz: AS NOTED Vert: N/A
Project No:	6432107
Sheet:	S-100

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2
S101 CROSS-SECTION
SCALE: 1/2" = 1'-0"



1
S101 CROSS-SECTION
SCALE: 1/2" = 1'-0"

NOTE:
A. ENGINEER TO REVIEW LOCATIONS OF COLUMNS DURING SUBMITTAL. ADJUSTMENTS TO PEDESTAL BUMPOUTS MAY BE REQUIRED.



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KPC	MVH	JMG

Date: March 2024

Scale: Horiz: AS NOTED
Vert: N/A

Project No: 6432107

Sheet: S-101

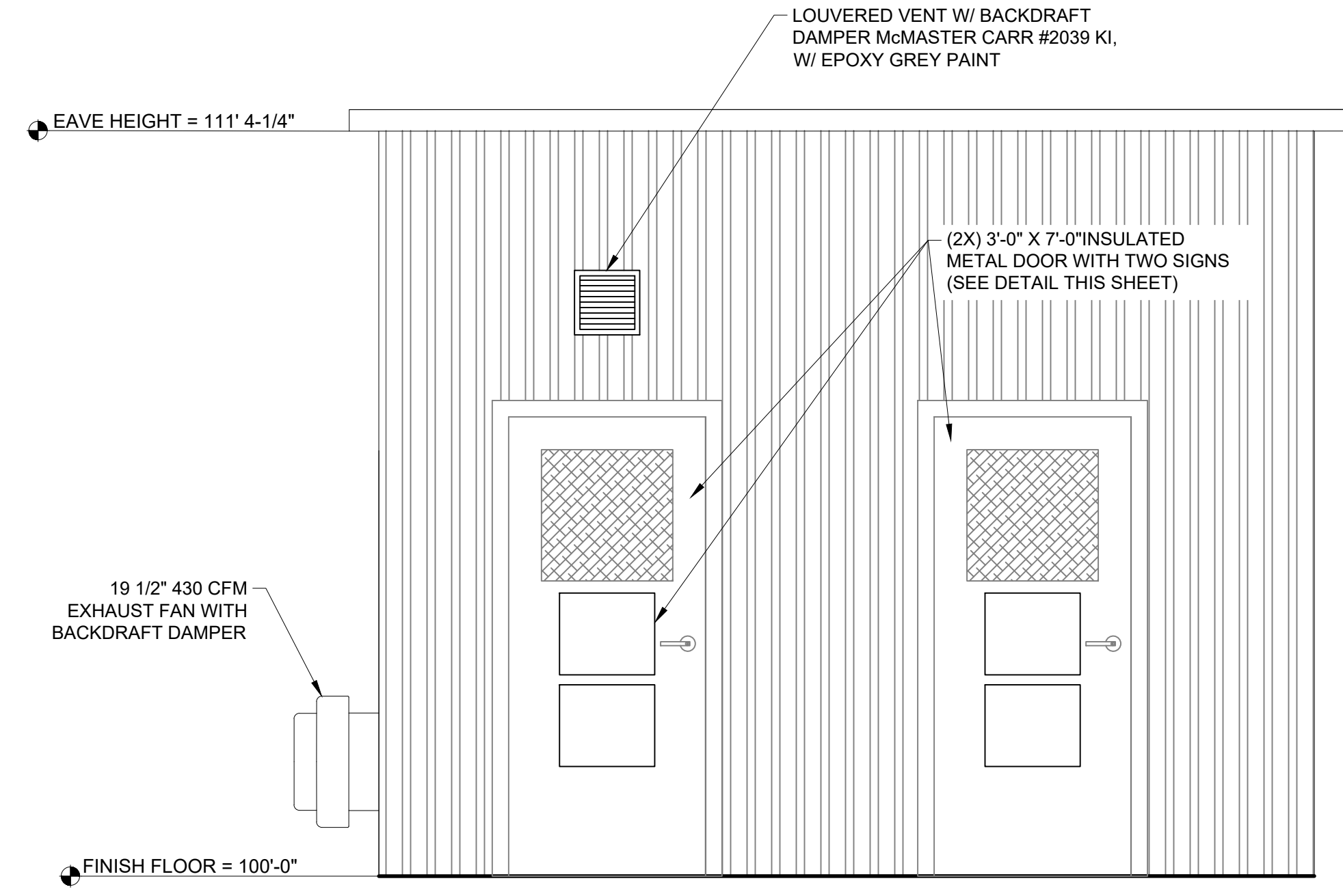
SANDOVAL COUNTY
PLACITAS, NEW MEXICO
**SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT**
PLACITAS, NEW MEXICO
BUILDING SECTIONS



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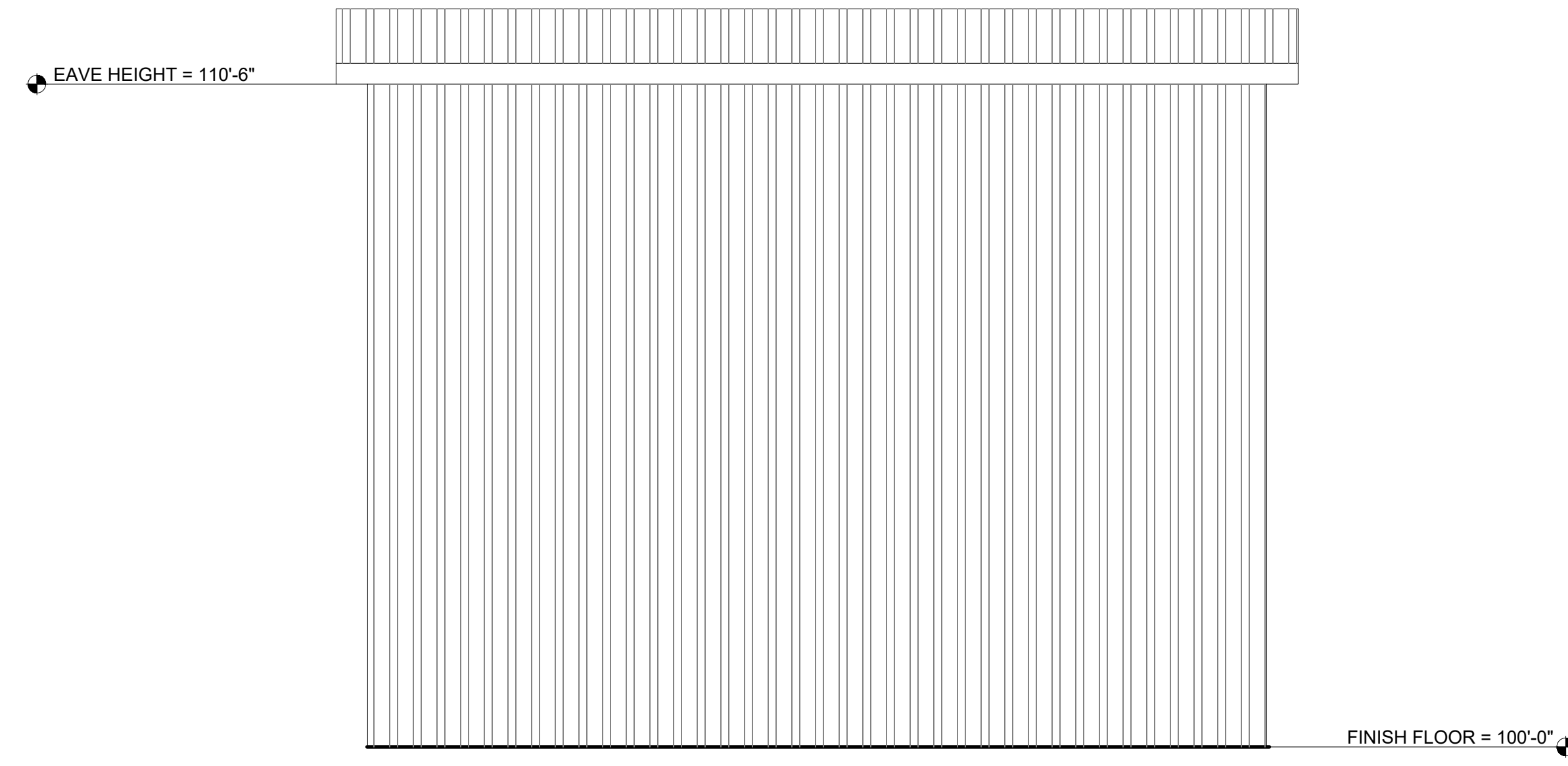
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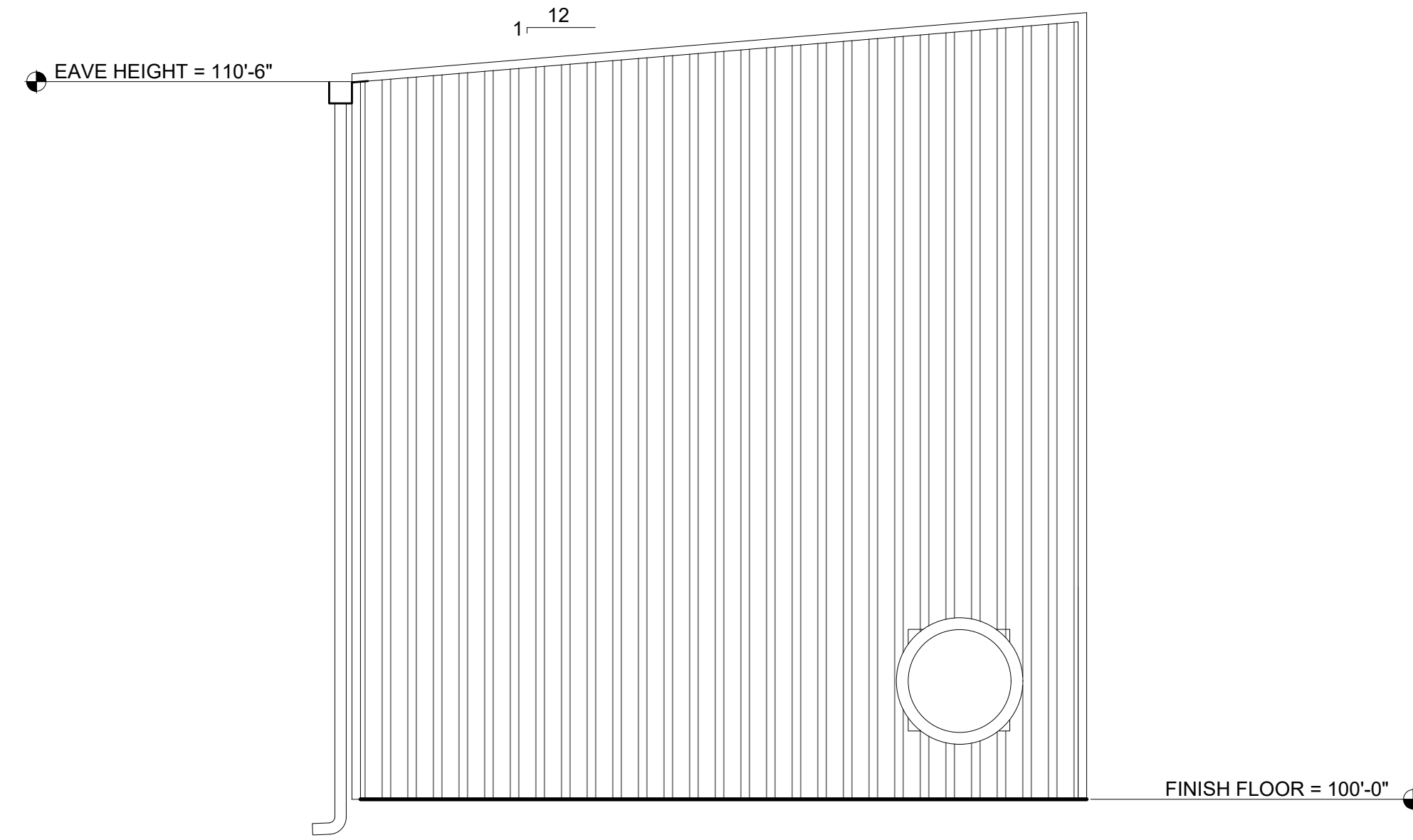


SIGN DETAIL
N.T.S.

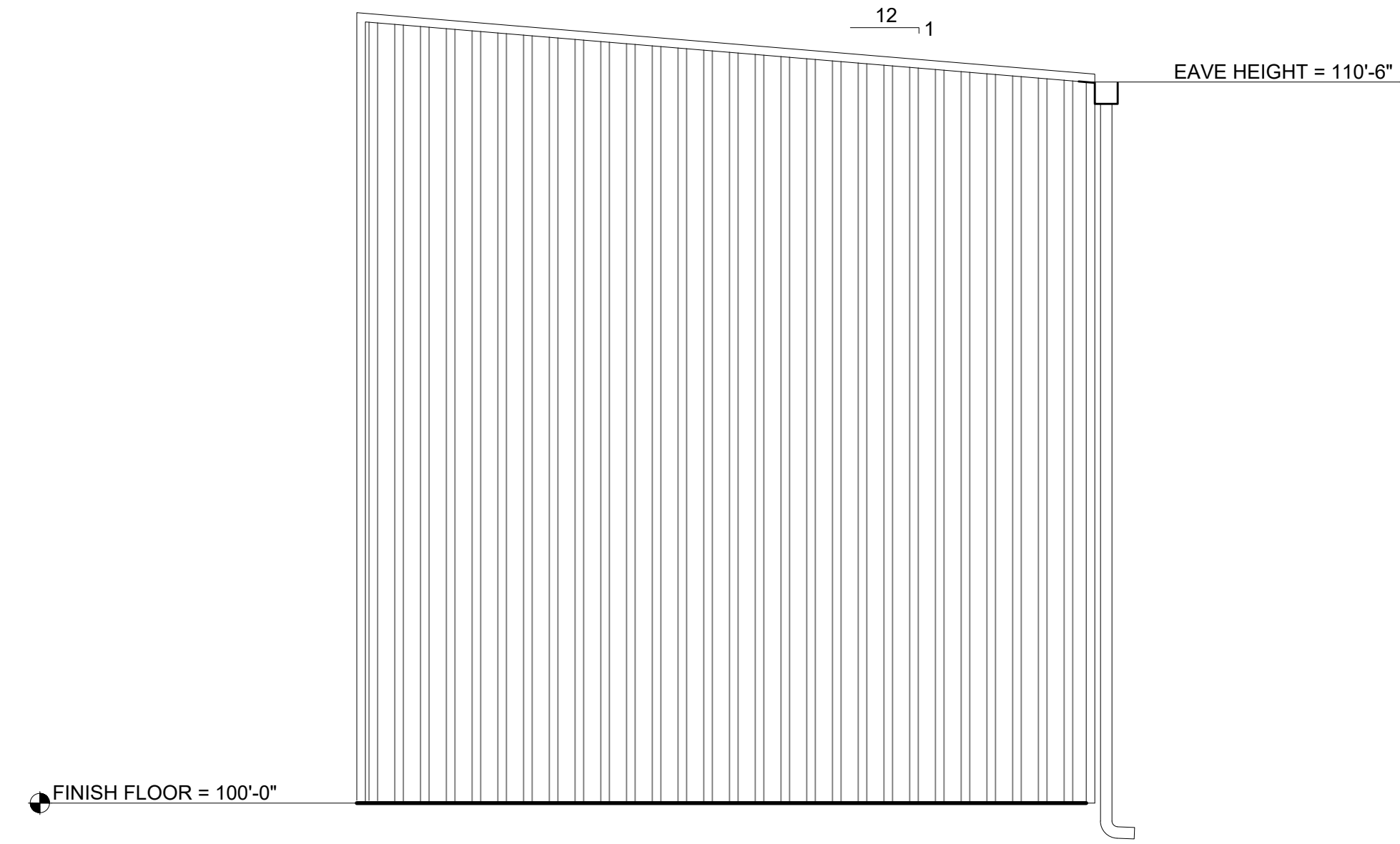
A
S102
ELEVATION VIEW
SCALE: 1/2" = 1'-0"
GRAPHIC SCALE



B
S102
ELEVATION VIEW
SCALE: 1/2" = 1'-0"
GRAPHIC SCALE



C
S102
ELEVATION VIEW
SCALE: 1/2" = 1'-0"
GRAPHIC SCALE



D
S102
ELEVATION VIEW
SCALE: 1/2" = 1'-0"
GRAPHIC SCALE

Rev #	Date	Description	By	CHKD

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SANDOVAL COUNTY
PLACITAS, NEW MEXICO
SANDOVAL COUNTY FIRE STATION 41
WATER SYSTEM IMPROVEMENTS PROJECT
PLACITAS, NEW MEXICO
ELEVATION VIEWS



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Designed KPC	Drawn MVH	Checked JMG
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Date: March 2024
Scale: Horiz: AS NOTED
Vert: N/A

Project No: 6432107

Sheet: S-102

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
□	WALL OUTLET AND SURFACE MOUNTED FIXTURE
□	LED OUTLET AND FIXTURE
⚡	SINGLE POLE SWITCH, FLUSH MOUNTED 48" A.F.F.
⚡	DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
⚡ WP	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
⚡ GFCI	DUPLEX CONVENIENCE OUTLET, GROUND FAULT CIRCUIT INTERRUPTER, 18" A.F.F.
○	JUNCTION BOX INSTALLED ABOVE LAY-IN CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 4'-0" LENGTH OF CONDUIT, WITH REQUIRED CONDUCTORS ALONG WITH GREEN GROUND CONDUCTOR
⊕	JUNCTION BOX FLUSH IN WALL, HEIGHT AS INDICATED ON DRAWINGS, WITH CONNECTION TO EQUIPMENT
⊕	CONCEALED BRANCH CIRCUIT WITH CONDUCTORS AS INDICATED. NEUTRAL, HOT, SWITCH LEG AND GROUND RESPECTIVELY
→	BRANCH CIRCUIT OR CONDUIT INSTALLED UNDERGROUND OR UNDER FLOOR
P2-2,4	HOMERUN TO PANELBOARD WITH BRANCH CIRCUIT NUMBERS INDICATED
⊕	SOLENOID VALVE
⊕	LIMIT SWITCH
⊕	PRESSURE TRANSMITTER
⊕	FIRE ALARM SMOKE AND HEAT DETECTOR, PHOTOELECTRIC TYPE, 120V AUX CONTACTS
⊕	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (1/3 HP OR LESS). PROVIDE THERMAL OVERLOAD SWITCH (WEATHERPROOF IF OUTSIDE) ADJACENT TO MOTOR UNLESS SWITCH IS SHOWN ELSEWHERE ON PLANS
⊕	MOTOR CONNECTION FOR MOTOR WITH HP INDICATED
⊕	DISCONNECT SWITCH, POLES AND RATING AS INDICATED OR AS REQUIRED, NEMA 3R IF INSTALLED OUTSIDE
⊕	FUSED DISCONNECT SWITCH, FUSE, POLES AND RATING AS INDICATED OR AS REQUIRED, NEMA 3R IF INSTALLED OUTSIDE
⊕	COMBINATION MAGNETIC MOTOR CONTROLLER/DISCONNECT SWITCH. SIZE, POLES, FUSES AND OVERLOADS PER MOTOR SERVED
⊕	MAGNETIC MOTOR CONTROLLER, SIZE AND POLES PER MOTOR SERVED
⊕	TRANSFORMER, DRY TYPE, SIZE AS INDICATED
⊕	THERMOSTAT(M), 48" A.F.F.
⊕	120V PANELBOARD, REFER TO PANEL SCHEDULE
⊕	277V PANELBOARD, REFER TO PANEL SCHEDULE
⊕	SPECIAL PURPOSE CABINET, AS INDICATED ON DRAWINGS
⊕	INTRUSION ALARM DOOR CONTACT MAGNETIC
⊕	NORMALLY OPEN CONTACT
⊕	NORMALLY CLOSED CONTACT
⊕	CONTACTOR
⊕	MOTOR OVERLOADS
⊕	RED PILOT LIGHT
⊕	GREEN PILOT LIGHT
⊕	TRANSFORMER
⊕	RELAY
⊕	SWITCH
⊕	FUSE(S)
⊕	CIRCUIT BREAKER
⊕	PROGRAMMABLE LOGIC CONTROLLER
⊕	REMOTE TERMINAL UNIT
⊕	THERMOSTAT
⊕	WEATHERPROOF (NEMA 3R)
⊕	NOT IN CONTRACT
⊕	NOT TO SCALE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE

NOTES:

- LIGHTING FIXTURES ARE OF TYPE AS INDICATED ON LIGHT FIXTURE SCHEDULE U.N.O.
- MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 18" A.F.F. ARE TO THE BOTTOM OF THE DEVICE UNLESS OTHERWISE NOTED.
- MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 48" A.F.F. ARE TO THE TOP OF THE DEVICE UNLESS OTHERWISE NOTED.
- ANY SPECIFIC DETAILS ABOVE (MOUNTING HEIGHTS, PART NUMBERS, CONNECTION METHODS, ETC.) MAY BE MODIFIED OR REPLACED BY INFORMATION ON PLANS, SCHEDULES, DETAILS, RISERS, ETC. DETAILS NOT SPECIFICALLY MODIFIED REMAIN AS GIVEN ABOVE.

GENERAL NOTES

SPECIFICATIONS

G1) IF THERE IS A CONFLICT BETWEEN PLANS/SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR ANY DEVICE, PART, OR MATERIAL USED IN THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY IN WRITING THE ENGINEER FOR CLARIFICATION.

G2) THE CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE PLANS, AND THE SITE CONDITIONS PRIOR TO BID OPENING AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY AMBIGUITIES, CONTRADICTIONS OR IRREGULARITIES IN THE PLANS.

G3) IF, DURING BIDDING OR CONSTRUCTION, THE CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE PLANS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, OR DISCREPANCIES IN OR POSSIBLE OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, THEY SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND REQUEST AN INTERPRETATION OF CORRECTION THEREOF. DURING THE BIDDING PROCESS AN ADDENDUM (IF NEEDED) WILL BE ISSUED.

G3.1) THE CONTRACT, IF AWARDED, WILL BE ON THE BASIS OF MATERIAL AND EQUIPMENT SPECIFIED OR DESCRIBED IN THE BIDDING DOCUMENTS WITHOUT CONSIDERATION OF POSSIBLE SUBSTITUTE OR "OR EQUAL" ITEMS. WHEREVER A BRAND NAME IS SPECIFIED OR DESCRIBED IN THE BIDDING DOCUMENTS A SUBSTITUTE OR "OR EQUAL" ITEM OF MATERIAL OR EQUIPMENT MAY BE FURNISHED OR USED BY CONTRACTOR IF ACCEPTABLE TO ENGINEER, APPLICATION FOR SUCH ACCEPTANCE WILL NOT BE CONSIDERED BY ENGINEER UNTIL AFTER THE EFFECTIVE DATE OF AGREEMENT. THE PROCEDURE FOR SUBMISSION OF ANY SUCH APPLICATION BY CONTRACTOR AND CONSIDERATION BY ENGINEER IS SET FORTH IN THE GENERAL CONDITIONS.

EXISTING UTILITIES & OBSTACLES TO WORK

G4) THE CONTRACTOR IS RESPONSIBLE TO INSTALL ALL ITEMS DESCRIBED IN THESE PLANS IN A MANNER THAT PROTECTS THE EXISTING FACILITY. THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY IF HE IS UNABLE TO PERFORM THIS WORK WITHOUT DAMAGE TO THE EXISTING FACILITY. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING INFORMATION SHOWN ON THESE PLANS. DESIGN ELEMENTS OF THIS PROJECT WILL NOT CHANGE WITHOUT CHANGE ORDER UNLESS THE CONTRACTOR NOTIFIES THE ENGINEER IN A TIMELY MANNER REGARDING ITEMS DESCRIBED IN THIS NOTE. CHANGES IN ALIGNMENT CAUSED BY UNKNOWN OR UNANTICIPATED SITE CONDITIONS SHALL BE ACCOUNTED FOR BY THE APPROPRIATE UNIT PRICES, AS RECOMMENDED BY THE ENGINEER AND APPROVED BY THE OWNER.

G5) THE EXISTENCE, CONDITION AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN IN THESE PLANS WAS OBTAINED BY A CAREFUL SEARCH OF AVAILABLE RECORDS. TO THE BEST OF THE ENGINEERS KNOWLEDGE, THERE ARE NO EXISTING UNDERGROUND UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THEIR LOCATING, PROTECTION OF, OR ANY DAMAGE TO THESE LINES OR STRUCTURES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND OBTAIN LINE SPOTS.

G6) THE FOLLOWING IS A LIST OF POSSIBLE OBSTRUCTIONS AND SHALL NOT BE CONSIDERED A COMPLETE LIST OF POSSIBLE OBSTRUCTIONS: EXISTING UTILITIES, STRUCTURE, GEOTECHNICAL FEATURES, ALL CONDUIT, CABLES, PIPES, WATERLINES, SEWER LINES, GAS LINES, POWER LINES, TELEPHONE AND TELEGRAPH LINES, TREES, MONUMENTS, TRAFFIC CONTROL DEVICES AND OTHER STRUCTURES, BOTH BELOW AND ABOVE GROUND.

G7) CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COSTS OF REPAIR OF ANY AND ALL DAMAGE TO ANY UTILITY (WHICH IS PREVIOUSLY KNOWN AND DISCLOSED TO HIM BY THE UTILITY OR SHOWN ON THESE PLANS) AS MAY BE CAUSED BY HIS OPERATIONS.

G8) FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM, INC. (505) 260-1890, FOR LOCATION OF EXISTING UTILITIES.

G9) CONTRACTOR SHALL GIVE ALL PUBLIC AND PRIVATE UTILITY COMPANIES NOTICE AS SOON AS POSSIBLE, IN NO EVENT LESS THAN FORTY EIGHT (48) HOURS, FOR ANY WORK THAT IS UNDERSTOOD TO INTERFERE WITH THE SERVICE OF ANY EXISTING PUBLIC OR PRIVATE UTILITY. IF SUCH PUBLIC OR PRIVATE UTILITY DOES NOT COOPERATE FOR THE PROTECTION OF ITS SERVICES, CONTRACTOR SHALL NOTIFY ENGINEER.

G10) CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY TO THE OWNER OF THE PROPERTY INVOLVED AND TO THE ENGINEER. CONTRACTOR SHALL REPAIR OR RESTORE AT HIS OWN EXPENSE ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY, FOR WHICH THEY ARE DIRECTLY OR INDIRECTLY RESPONSIBLE, TO A CONDITION EQUAL TO THAT EXISTING BEFORE DAMAGE. CONTRACTOR SHALL PROMPTLY NOTIFY HIS INSURANCE CARRIER OF SUCH DAMAGE. IF CONTRACTOR FAILS TO GIVE SUCH NOTICE TO HIS INSURANCE CARRIER OR REFUSES TO EFFECT SUCH REPAIRS OR RESTORATION UPON RECEIPT OF NOTICE, THE ENGINEER MAY CAUSE SUCH REPAIRS OR RESTORATION AND DEDUCT THE COST THEREOF FROM MONEYS DUE, OR WHICH MAY BECOME DUE, TO THE CONTRACTOR.

G11) CONTRACTOR IS RESPONSIBLE FOR RECORDING EXISTING CONDITIONS IN ACCORDANCE WITH THE SUPPLEMENTARY CONDITIONS OF THE CONTRACT BEFORE CONSTRUCTION BEGINS. THE RECORD OF EXISTING CONDITIONS SHALL BE USED AS THE "EQUAL CONDITION BEFORE DAMAGE" IN THE EVENT OF DAMAGE TO PUBLIC OR PRIVATE PROPERTY. CONTRACTOR FAILURE TO RECORD EXISTING CONDITIONS WILL MAKE THE OWNERS CLAIM OF "EQUAL CONDITION BEFORE DAMAGE" THE STANDARD THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING AND THE ENGINEER WILL BE IN THE POSITION OF NOT BEING ABLE TO SUPPORT THE CONTRACTOR IN THE MEDIATION OF ANY DISPUTE.

G12) THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES..

SITE CONDITIONS

G13) CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES ADJACENT TO THE CONSTRUCTION AREA.

G14) THE CONTRACTOR SHALL USE WATERING EQUIPMENT FOR DUST POLLUTION ABATEMENT AS REQUIRED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER. THIS WORK AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

G15) EPA STORM WATER DISCHARGE REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO APPLICABLE PORTIONS OF THE EPA STORM WATER DISCHARGE REGULATIONS.

G16) CONTRACTOR SHALL FULLY COORDINATE ALL REPLACEMENT OF DAMAGED OR DESTROYED EQUIPMENT, GRASS, TURF, ETC. THAT WAS DAMAGED OR DESTROYED DURING CONSTRUCTION.

SITE DESIGN

G17) SUBGRADE. ALL SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO 95 % OF STANDARD PROCTOR. ALL SUBGRADE AND BACKFILL SHALL BE COMPACTED IN MAXIMUM 8" LOOSE LIFTS. MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL NOT EXCEED OPTIMUM OR BE LESS THAN 5 PERCENTAGE POINTS BELOW OPTIMUM. DRIVEWAYS, APRONS, FILLETS, CURB AND GUTTER, AND OTHER CONCRETE PAVEMENT SHALL BE PLACED ON 6" OF COMPACTED SUBGRADE.

G18) RESTORE SURFACE AT TRENCH TO EXISTING CONDITIONS.

COMMUNICATION

G19) CONTRACTOR SHALL KEEP THE OWNER AND THE ENGINEER UPDATED WEEKLY ON THE CONSTRUCTION SCHEDULE AND/OR PHASE SCHEDULE, AND PROGRESS TO DATE.

G20) CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH CITY OF LOS ALAMOS P.I. OFFICER INCLUDING BUT NOT LIMITED TO NOISE ORDINANCE, TIME OF WORK BEING PERFORMED, ETC..

STAGING STORAGE & DEBRIS DISPOSAL

G21) DEBRIS GENERATED BY CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF AT A PERMITTED LANDFILL OR OTHER DULY CERTIFIED REFUSE FACILITY. THE DISPOSAL OF DEBRIS IS NOT A PAY ITEM.

RECORD DRAWINGS

G22) THE CONTRACTOR SHALL PROVIDE A RECORD SKETCH ON THESE PLANS FOR THE AS-CONSTRUCTED CONDITIONS.

PHASE AND SCHEDULE

G23) CONTRACTOR SHALL PHASE AND SCHEDULE WORK IN SUCH A WAY AS TO PROVIDE MINIMAL POWER OUTAGES AT THE FACILITY. A PROJECT SCHEDULE SHALL BE SUBMITTED TO THE OWNER FOR REVIEW PRIOR TO ISSUANCE OF NOTICE-TO-PROCEED. CHANGES IN SCHEDULE SHALL BE PRESENTED TO OWNER AND ENGINEER AT LEAST 7 DAYS PRIOR TO PROPOSED IMPLEMENTATION. THESE SCHEDULES, SCHEMATICS AND DIAGRAMS SHALL BE UPDATED WEEKLY AS THE WORK PROGRESSES. MOST CHANGE OVER SHALL BE DONE ON WEEKENDS OR AFTER HOURS.

SUBMITTALS

G24) CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL EQUIPMENT, MATERIALS, PROCESSES AND SCHEDULES AND AS REQUESTED BY ENGINEER.

INSPECTION OF WORK

G25) OWNER SHALL HAVE ACCESS TO FULL TIME INSPECTION OF WORK BEING PERFORMED.

Rev#	Date

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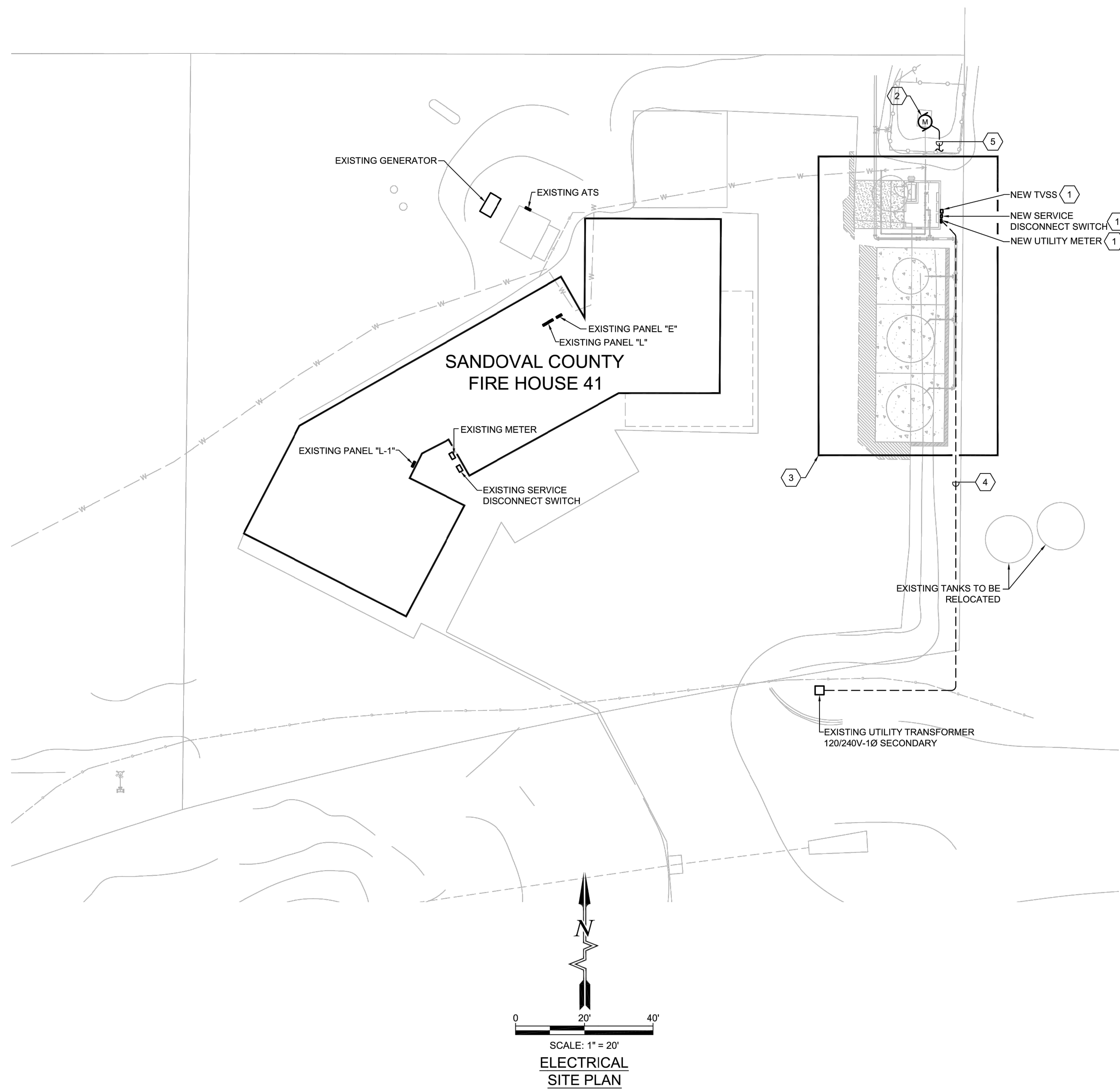
SOUDER, MILLER & ASSOCIATES

SANDOVAL COUNTY
PLACITAS, NEW MEXICO
SANDOVAL COUNTY FIRE 41 TANK PROJECT
PLACITAS, NEW MEXICO
ELECTRICAL COMMONS

THOMAS P. HURD
PROFESSIONAL ENGINEER
25211
3/18/24

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An Electrical Engineering Corporation
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Albuquerque, New Mexico 87109
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E-mail: theresponsegroup@trg-inc.net

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Designed	Drawn	Checked
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Project No: 6432107		
Sheet: E-1		



GENERAL NOTES

- A. REFER TO SHEET E-1 FOR "ELECTRICAL SYMBOL LEGEND" AND "GENERAL NOTES".
- B. REFER TO SHEET E-4 FOR "POWER RISER DIAGRAM".
- C. CONTRACTOR IS RESPONSIBLE FOR INFORMING ITSELF TO THE LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCING OF WORK. CALL NEW MEXICO CALL BEFORE YOU DIG SERVICE 811 2 BUSINESS DAYS PRIOR TO ANY WORK COMMENCING.
- D. ALL CONDUIT SHOWN DASHED SHALL BE BURIED A MINIMUM OF 36" BELOW FINISHED GRADE. ALL CONDUIT THAT COMES IN CONTACT WITH THE GROUND SHALL BE EITHER PVC, PVC COATED OR DOUBLE LAPPED WRAPPED IN SCOTCHWRAP-51. BURY RED METALLIC WARNING TAPE 12" ABOVE CONDUIT.

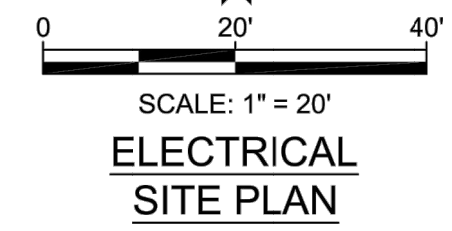
KEYED NOTES

- 1. NEW ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO "POWER RISER DIAGRAM" ON SHEET E-4 FOR ADDITIONAL INFORMATION.
- 2. APPROXIMATE LOCATION OF EXISTING WELL PUMP. EXISTING CONTROLS FOR WELL SHALL BE RELOCATED TO CONTROL ROOM OF THE CHLORINATOR BUILDING. REFER TO SHEET E3 FOR ADDITIONAL INFORMATION.
- 3. REFER TO "ELECTRICAL CHLORINATOR BUILDING AND TANK PLAN" ON SHEET E-3 FOR ADDITIONAL INFORMATION.
- 4. NEW SECONDARY FEEDER FROM EXISTING UTILITY TRANSFORMER. REFER TO "POWER RISER DIAGRAM" ON SHEET E-4 FOR ADDITIONAL INFORMATION. CONDUIT TO BE BURIED A MINIMUM OF 36" (OR AS REQUIRED BY UTILITY COMPANY). BURY RED METALLIC WARNING TAPE 12" ABOVE CONDUIT.
- 5. NEW FEED TO EXISTING WELL. 3#10 THWN CU AND 1#10 THWN CU GROUND IN 1" CONDUIT. REFER TO "ELECTRICAL CHLORINATOR BUILDING AND TANK PLAN" ON SHEET E-3 FOR CONTINUATION OF CONDUIT. MAKE ALL REQUIRED CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.

WARNING

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

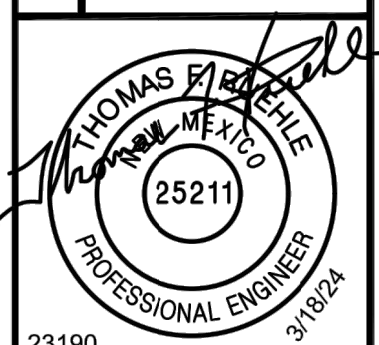
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SANDOVAL COUNTY
 SANDOVAL COUNTY FIRE 41 TANK PROJECT
 PLACITAS, NEW MEXICO
 ELECTRICAL SITE PLAN



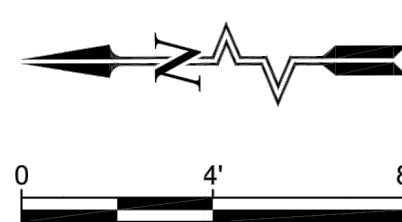
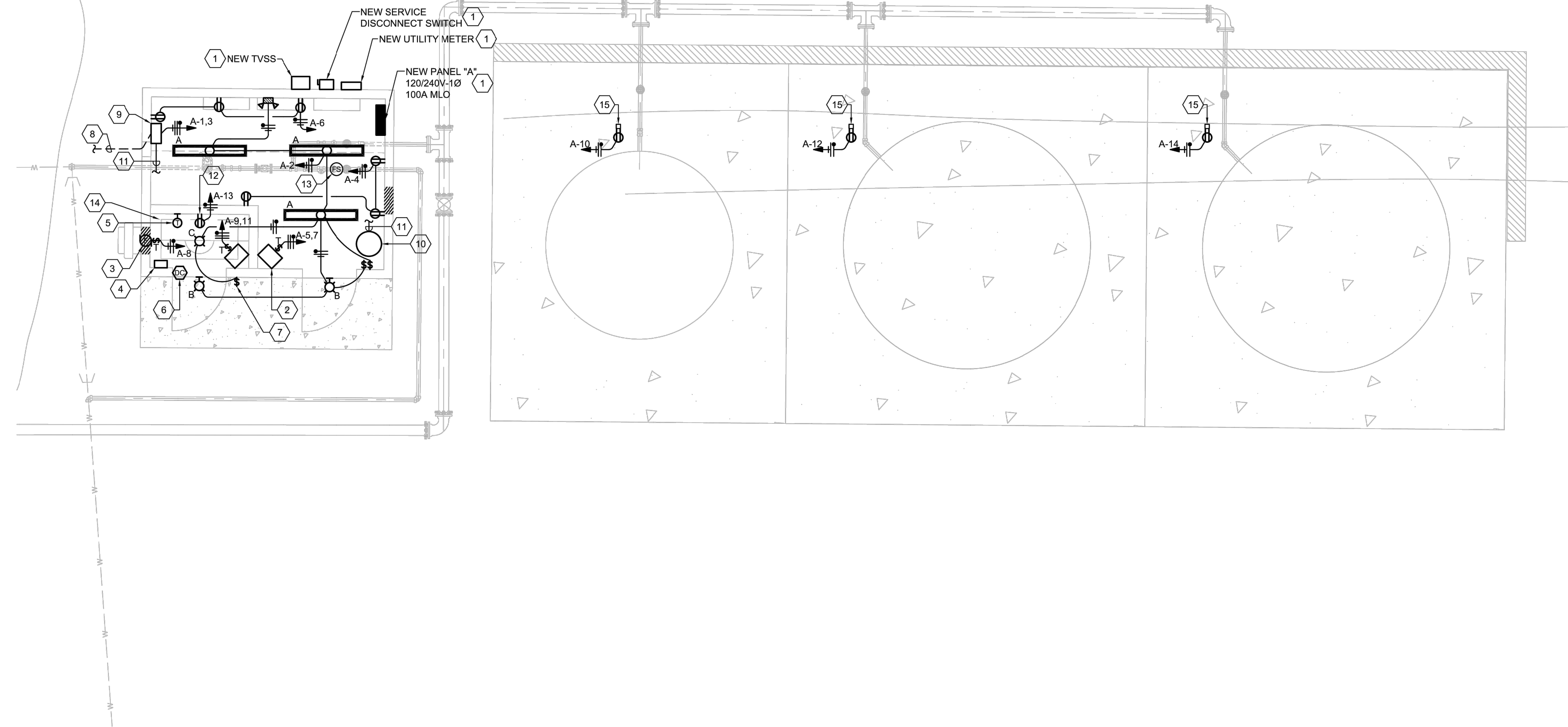
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Date: March 2024
 Scale: Horiz:
 Vert:

Project No: 6432107

Sheet:
E-2



SCALE: 1" = 4'

**ELECTRICAL
CHLORINATOR
BUILDING
PLAN**

LIGHT FIXTURE SCHEDULE			
TYPE	FIXTURE DESCRIPTION	LAMPS	MOUNTING
A	4' LED SURFACE MOUNTED, LENSED, STRIP LIGHT, 4000 LUMENS, 40W, UNIVERSAL VOLTAGE METALUX #4SLSTP404DD-UNV	LED	CEILING SURFACE
B	LED WALL PACK, FULL CUTOFF, PHOTOCCELL, 120V LUMARK #LDWP-FC-4B-120V-PE	32W LED	EXTERIOR WALL
C	CHLORINE ROOM LIGHT, UNIVERSAL VOLTAGE, 3/4" HUB, DIE-CAST GUARD, CLASS 1 DIVISION 2 LISTED, WET LOCATION LISTED HUBBELL INDUSTRIAL LIGHTING #VTH-5G-G-U-X-1-G-GR	5000K 25W LED	CEILING SURFACE
EM	EMERGENCY LIGHT, BATTERY BACKUP, UNIVERSAL VOLTAGE SURE-LITES #AP2SQLED	LED	WALL SURFACE

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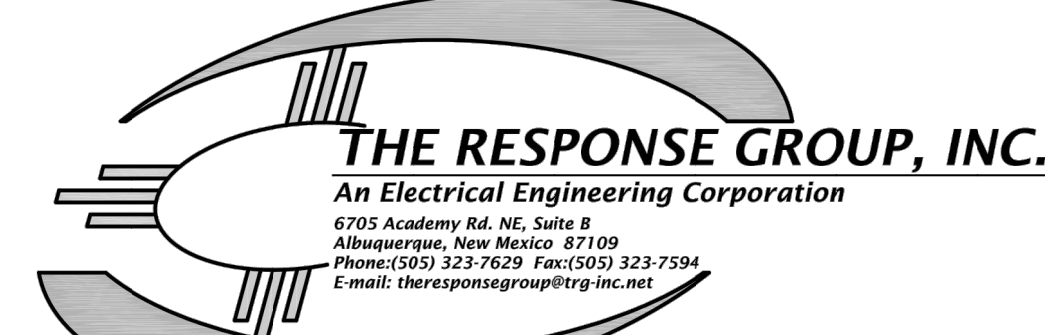
KEYED NOTES

1. NEW ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO "POWER RISER DIAGRAM" ON SHEET E-4 FOR ADDITIONAL INFORMATION.
2. PROVIDE AND INSTALL 4 KW 240 VOLT, SINGLE PHASE ELECTRIC WALL MOUNTED HEATER WITH INTEGRAL THERMOSTAT. AS MANUFACTURED BY CHROMALOX #HVH-04-21-00-TL-D-00-0-0-S-HW-1. FAN SHALL BE RATED FOR EXTERIOR USE. PROVIDE AND INSTALL FIELD INSTALLATION DISCONNECT KIT. WIRE WITH 3#10 THWN CU AND 1#10 THWN CU GROUND IN 3/4" CONDUIT.
3. PROVIDE AND INSTALL A THROUGH WALL EXHAUST FAN - 430 CFM, 1/4 HP, 120 VOLTS, WITH BACKDRAFT DAMPER. EXHAUST FAN SHALL BE INTERLOCKED WITH DOOR CONTACT, LIGHT SWITCH, AND THERMOSTAT. REFER TO "CHLORINATOR BUILDING EXHAUST FAN CONTROL DIAGRAM" ON SHEET E-4 FOR ADDITIONAL REQUIREMENTS. MOTOR ENCLOSURE AND WIRING COMPONENTS SHALL BE RATED FOR EXTERIOR USE. MOUNTED AT 18" AFF.
4. PROVIDE AND INSTALL NEW HAND-OFF-AUTO SWITCH FOR CONTROL OF EXHAUST FAN. "AUTO" MODE SHALL TURN EXHAUST FAN ON VIA DOOR CONTACT, EXTERIOR LIGHT SWITCH, AND THERMOSTAT LOCATED WITHIN CHLORINE ROOM. REFER TO "CHLORINATOR BUILDING EXHAUST FAN CONTROL DIAGRAM" ON SHEET E-4 FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE AND INSTALL A 120 VOLT THERMOSTAT FOR THE CONTROL OF EXHAUST FAN. REFER TO "CHLORINATOR BUILDING EXHAUST FAN CONTROL DIAGRAM" ON SHEET E-4 FOR ADDITIONAL REQUIREMENTS.
6. DOOR LIMIT SWITCH WITH ADJUSTABLE LEVER ARM AS MANUFACTURED BY SQUARE D #9007C62B2, ARM #HA1. DOOR SWITCH INDICATED SHALL CONTROL EXHAUST FAN LOCATED IN CHLORINATION CHEMICAL SIDE OF THE BUILDING. REFER TO "CHLORINATOR BUILDING EXHAUST FAN CONTROL DIAGRAM" ON SHEET E-4 FOR ADDITIONAL INFORMATION.
7. PROVIDE AND INSTALL A WEATHER PROOF SWITCH WITH PILOT LIGHT FOR THE CONTROL OF THE CHLORINE ROOM LIGHT FIXTURE AND EXHAUST FAN. REFER TO "CHLORINATOR ROOM EXHAUST FAN CONTROL DIAGRAM" ON SHEET E-4 FOR ADDITIONAL INFORMATION.
8. NEW FEED TO EXISTING WELL. 3#10 THWN CU AND 1#10 THWN CU GROUND IN 1" CONDUIT. REFER TO "ELECTRICAL CHLORINATOR BUILDING AND TANK PLAN" ON SHEET E-3 FOR CONTINUATION OF CONDUIT. MAKE ALL REQUIRED CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
9. NEW LOCATION OF RELOCATED WELL PUMP CONTROL PANEL. CONTROL PANEL SHALL RECEIVE SIGNAL TO TURN ON EXISTING WELL PUMP VIA PRESSURE SWITCH LOCATED IN HYDRO-PNEUMATIC PRESSURE TANK.
10. NEW LOCATION OF RELOCATED HYDRO-PNEUMATIC PRESSURE TANK WITH INTEGRAL PRESSURE SWITCH. PRESSURE SWITCH SHALL CONTROL EXISTING WELL PUMP AND CHEMICAL DOSING PUMP (THROUGH RELOCATED RELAY) PER OWNERS SET POINTS.
11. PROVIDE AND INSTALL 3/4" CONDUIT WITH REQUIRED CONTROL CONDUCTORS FOR CONTROL OF WELL PUMP. CONTRACTOR SHALL MAKE ALL REQUIRED CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
12. CHEMICAL DOSING PUMP. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION. PUMP SHALL TURN ON WHEN WELL PUMP IS TURNED ON, AND TURN OFF WHEN WELL PUMP SHUTS OFF. CONTRACTOR SHALL RELOCATE EXISTING RELAY THAT CONTROLS EXISTING CHEMICAL DOSING PUMP AND MAKE ALL REQUIRED CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED CONTROL CONDUCTORS IN 3/4" CONDUIT FOR A COMPLETE AND OPERATIONAL SYSTEM.
13. FLOW SENSOR. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION. FLOW SENSOR SHALL SEND SIGNAL TO TURN ON CHEMICAL DOSING PUMP. PROVIDE AND INSTALL INTERPOSING RELAYS AS REQUIRED.
14. ALL CONDUITS IN CHLORINE ROOM SHALL BE SCHEDULE 80 PVC. PROVIDE AND INSTALL SEAL OFF FITTINGS AFTER CONDUIT LEAVES CHLORINE ROOM.
15. PROVIDE AND INSTALL NEW NEMA 5-20 WEATHER RESISTANT TYPE RECEPTACLE IN LOCKABLE WEATHERPROOF-WHILE-IN-USE ENCLOSURE MOUNTED TO UNISTRUT MOUNTING POST. REFER TO "UNISTRUT MOUNTING POST DETAIL" ON SHEET E4 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR AND OWNER PRIOR TO ROUGH-IN. RECEPTACLE SHALL BE PROTECTED WITH A GFPE TYPE CIRCUIT BREAKER THAT IS LISTED FOR USE WITHIN PANELBOARD.

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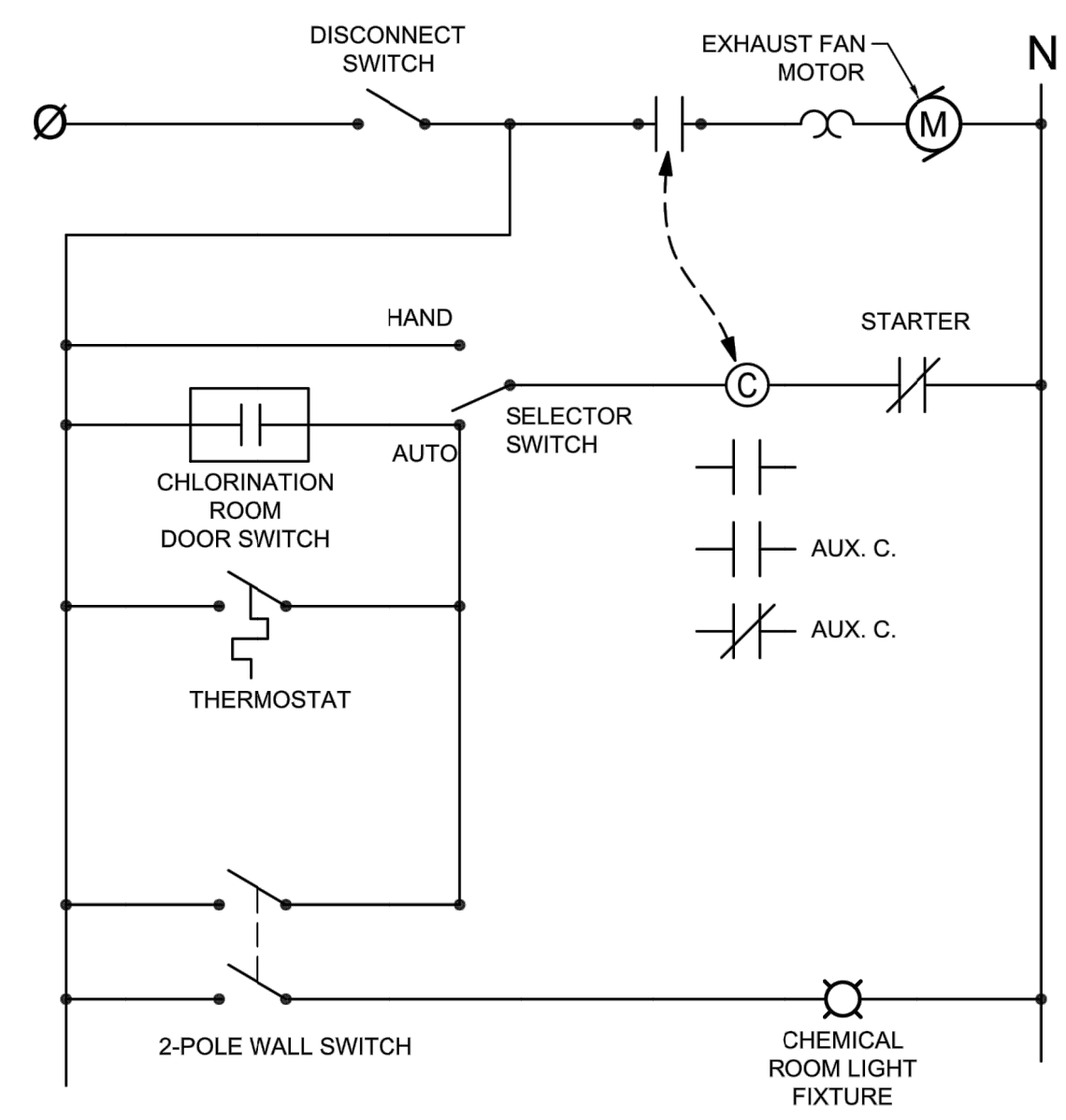


By		Checked		Description		Rev #		Date	
RHP		RHP				RHP			
<p style="font-size: small;">SANDOVAL COUNTY PLACITAS, NEW MEXICO</p> <p style="font-weight: bold; font-size: small;">SANDOVAL COUNTY FIRE 41 TANK PROJECT PLACITAS, NEW MEXICO ELECTRICAL CHLORINATOR BUILDING AND TANK PLAN</p>									
<p style="font-size: x-small;">THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>									
<p>Date: March 2024</p> <p>Scale: Horiz: Vert:</p> <p>Project No: 6432107</p> <p>Sheet: E-3</p>									

PANEL / LOAD SCHEDULE - NEW PANELBOARD "A"										
LOCATION: CHLORINATOR BUILDING		VOLTAGE: 120/240V-1P, 3W		CAPACITY: 100 AMPERE		Main: 100A MLO				
FED FROM: 100A/2P Service Disconnect		ENCLOSURE: NEMA 3R		MOUNTING: SURFACE		AIC: 10,000				
BKR SIZE	DESCRIPTION	DEMAND CODE	LOAD (VA)	LOAD (VA)		LOAD (VA)	DEMAND CODE	DESCRIPTION	BKR SIZE	
				PHASE A	PHASE B					
20A-2P	WELL PUMP	LMECH	1440	1	1654	2	214	LTG	LIGHTING	20A-1P
		LMECH	1440	3	1960	4	540	REC	RECEPTACLES	20A-1P
30A-2P	UNIT HEATER	EQP	2000	5	2540	6	540	REC	RECEPTACLES	20A-1P
		EQP	2000	7	2696	8	696	MECH	EXHAUST FAN	20A-1P
30A-2P	UNIT HEATER	EQP	2000	9	3000	10	1000	EQP	HEAT TRACE	20A-1P
		EQP	2000	11	3000	12	1000	EQP	HEAT TRACE	20A-1P
20A-1P	CHEMICAL DOSING PUMP	MECH	200	13	1200	14	1000	EQP	HEAT TRACE	20A-1P
1P	SPACE ONLY			15		16			SPACE ONLY	1P
1P	SPACE ONLY			17		18			SPACE ONLY	1P
1P	SPACE ONLY			19		20			SPACE ONLY	1P
1P	SPACE ONLY			21		22			SPACE ONLY	1P
1P	SPACE ONLY			23		24			SPACE ONLY	1P

Total Phase Loads (VA):	8,394	7,676	Notes: 1. New Panelboard
Total Phase Loads (Amps):	70.0	64.0	2. 24-Circuit
Total Connected Loads (kVA):	16.1		3. Copper Neutral and Ground Bus Bars
			4. Door-in-Door Enclosure.

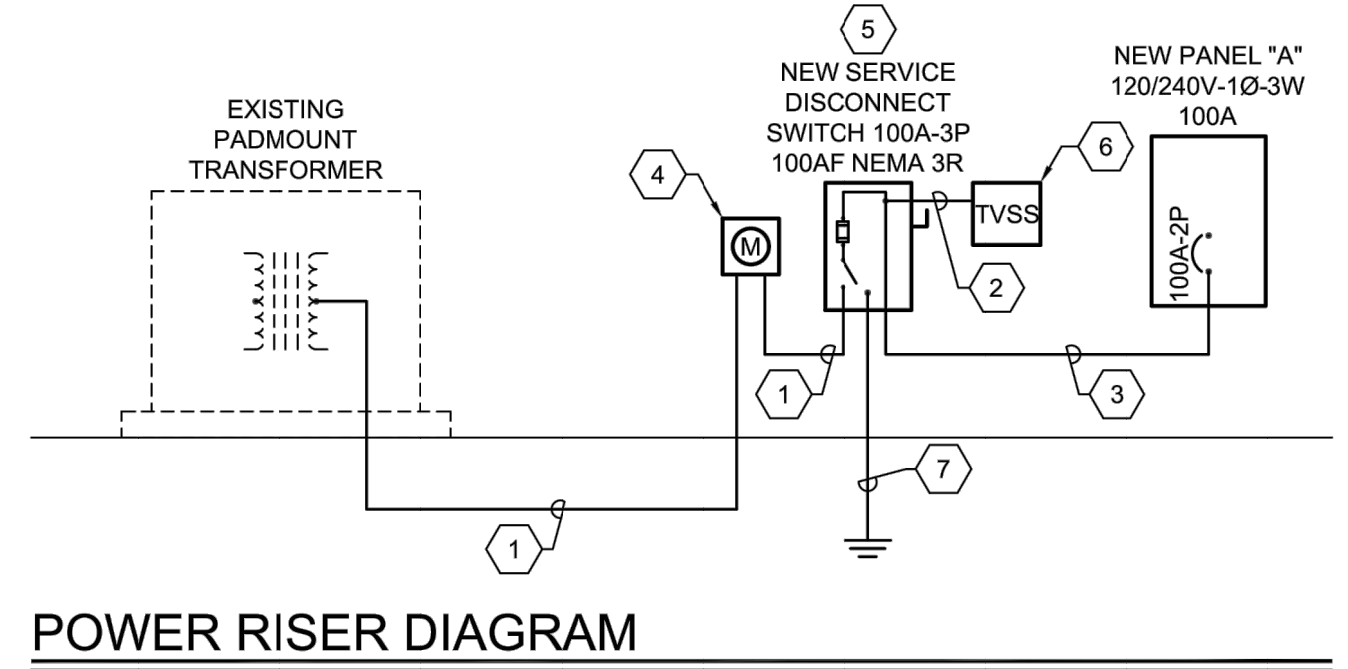
Connected (kVA) by Type:		Estimated Demand (kVA) by Load Type:		Total Estimated Demand (kVA):	
LTG	Lighting: 0.2	Lighting at 125% (kVA):	0.3	16.8	
REC	Receptacles: 1.1	Receptacles: 1.1	Amps at 240/120V-1 Phase (Amps):	70.2	
		10kVA at 100% (kVA):	1.1	Panel Ampacity (Rating):	100
		Rest at 50% (kVA):	0.0	Spare Capacity:	29.8%
EQP	Equipment: 11.0	Eq at 100% (kVA):	11.0		
LMECH	Largest Mech: 2.9	Largest at 125% (kVA):	3.6		
MECH	Mechanical: 0.9	Rest at 100% (kVA):	0.9		



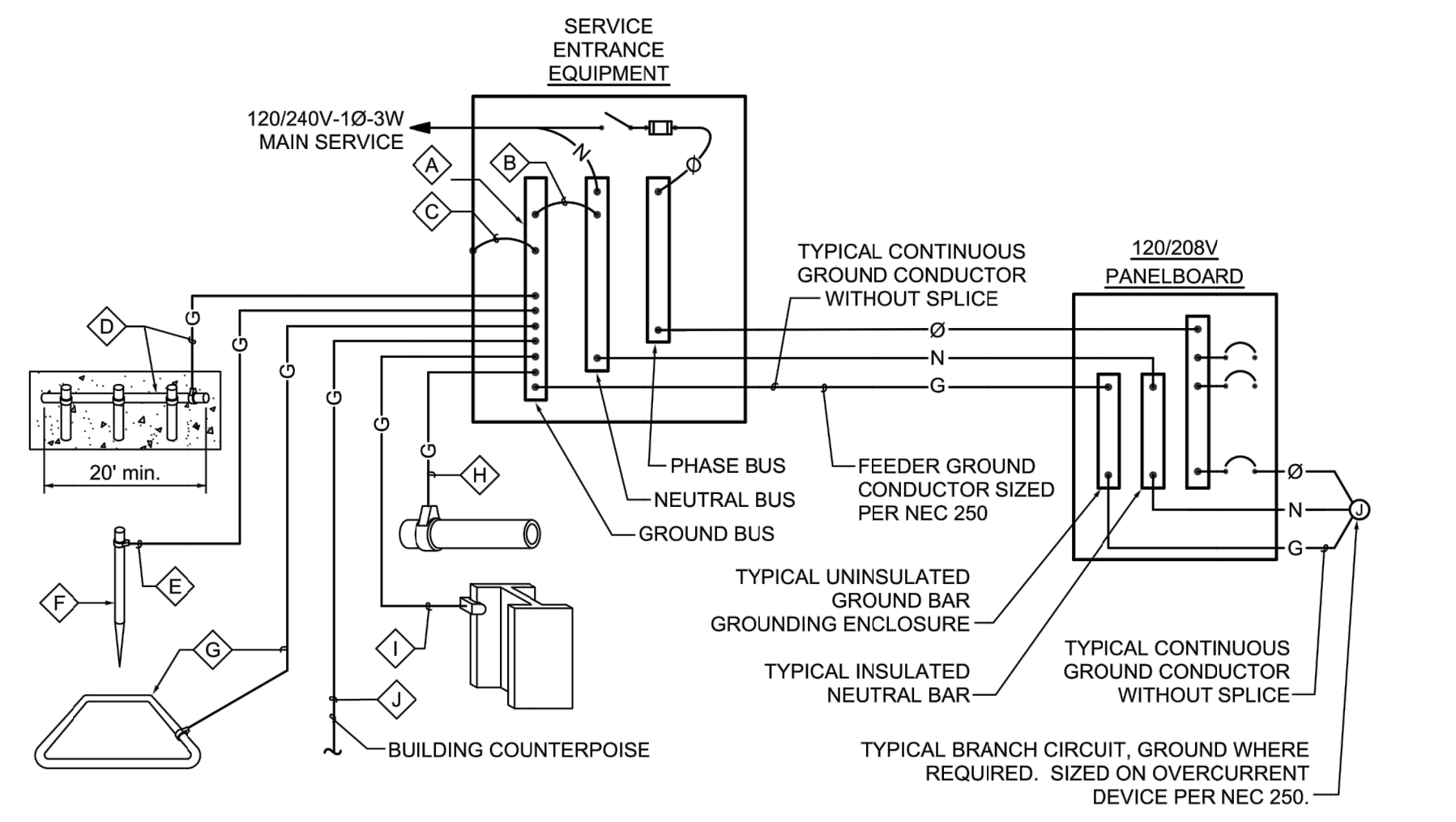
CHLORINATOR BUILDING EXHAUST FAN CONTROL DIAGRAM
NO SCALE

CHLORINATION ROOM EXHAUST FAN OPERATES AS FOLLOWS:
WITH THE STARTER SWITCH IN AUTO:

1. THE FAN WILL TURN ON WHEN THE DOOR IS OPEN VIA THE DOOR SWITCH.
2. WITH THE DOOR CLOSED THE FAN WILL TURN ON WHEN THE LIGHTING SWITCH IS SWITCHED ON.
3. WITH THE DOOR CLOSED AND LIGHTING SWITCH OFF, THE FAN WILL TURN ON BY THERMOSTAT.



- KEYED NOTES**
1. #2 THWN CU IN 1 1/4" CONDUIT OR 3#10 XHHW AI IN 1 1/2" CONDUIT. FOR THE SERVICE CONDUIT, CONDUIT SIZES ARE MINIMUM. COORDINATE REQUIREMENTS WITH LOCAL UTILITY COMPANY.
 2. #4 THWN CU IN 1" CONDUIT BETWEEN TVSS AND DISCONNECT SWITCH.
 3. #2 THWN CU AND #8 THWN CU GROUND IN 1 1/4" CONDUIT.
 4. PROVIDE AND INSTALL A 100 AMP 120/240 VOLT METER SOCKET PER THE LOCAL UTILITY COMPANY REQUIREMENT. REFER TO "ELECTRICAL SITE PLAN" ON SHEET E-2 FOR LOCATION OF METER.
 5. PROVIDE AND INSTALL A FUSIBLE DISCONNECT SWITCH, 100 AMPS, 250 VOLTS, 2 POLE, SOLID NEUTRAL AND GROUND LUG, NEMA 3R ENCLOSURE. FUSE AT 100 AMPS. PROVIDE A MINIMUM WORKING CLEARANCE OF 3'-0" WIDE IN FRONT OF DISCONNECT SWITCH PER NEC.
 6. PROVIDE AND INSTALL A TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICE. THE TVSS SHALL BE MANUFACTURED BY RAYCAP #120-2S-M3-3-06-A-H OR APPROVED EQUAL, NEMA 3R ENCLOSURE.
 7. REFER TO "GROUNDING SYSTEM DIAGRAM - 120/240 VOLT SYSTEM" ON THIS SHEET FOR ADDITIONAL INFORMATION.

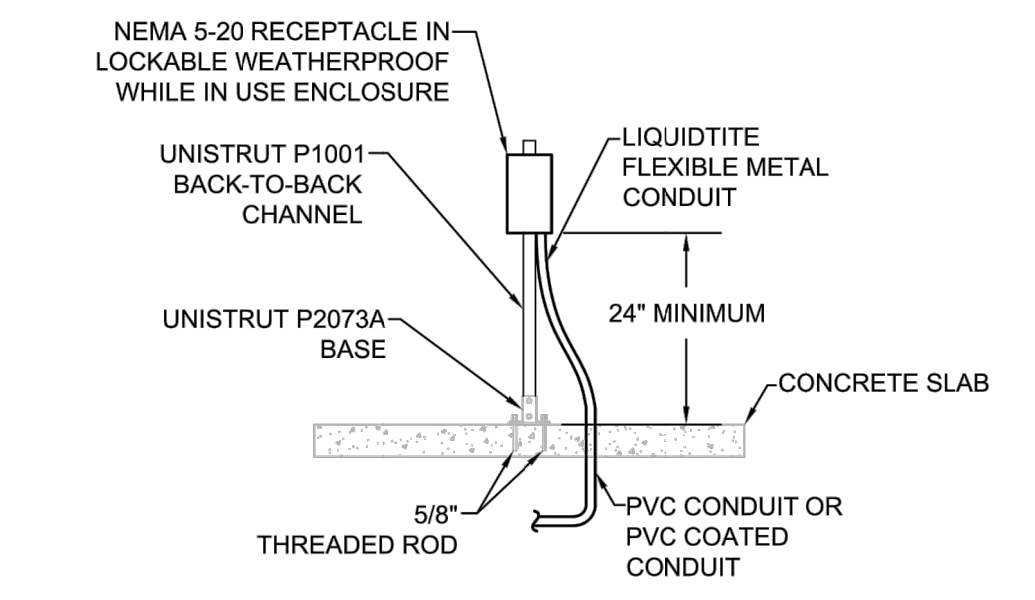


GROUNDING SYSTEM DIAGRAM - 120/240 VOLT SYSTEM
NOT TO SCALE

- GROUNDING SYSTEM GENERAL NOTES**
- A. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF ITEMS A, B, C, D, E, F AND G, WHERE APPLICABLE.
 - B. ITEMS H, I AND J MUST BE BONDED TOGETHER AND TO THE GROUNDING ELECTRODE SYSTEM WHEN THEY ARE PRESENT.
 - C. ITEM K CONCRETE ENCASED ELECTRODE (UFER) SHALL HAVE UFER SUPPORT CONSISTING OF 5/8" x 10' COPPER GROUND ROD CUT INTO 2 SECTIONS AND DRIVEN FOR SUPPORT OF UFER CONDUCTOR. ONLY COPPER TO COPPER CONNECTIONS ARE ACCEPTABLE. DO NOT USE RE-BAR FOR UFER SUPPORT. (THIS IS TO AVOID THE HARMFUL EFFECTS OF DISSIMILAR METALS IN CONTACT.) A U.L. LISTED COPPER TO RE-BAR CLAMP (SUCH AS GRAVES "JONES BOND" SYSTEM) IS AN APPROVED ALTERNATIVE.
 - D. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 250, PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
 - E. ALL SPLICING SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD-WELD) ONLY.
 - F. ALL CONDUCTOR SIZING INDICATED ON THE GROUNDING SCHEDULE ARE FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.
 - G. ANY VARIANCES FROM THIS DIAGRAM AND ASSOCIATED SCHEDULE AND NOTES MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
 - H. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF N.E.C. ARTICLE 250 (ALL SUBPARAGRAPHS) AND ALL STATE AND LOCAL REQUIREMENTS.
 - I. THE GROUNDING SYSTEM SHALL PROVIDE LESS THAN (4) FOUR OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDENT TESTING AGENCY VIA GROUND TEST (FALL-OF-POTENTIAL) AND SUBMITTED TO ELECTRICAL ENGINEER UPON COMPLETION OF PROJECT.

	A	B	C	D	E	F	G	H	I	J
	FACTORY INSTALLED BUS BAR	INTEGRATED BUS BAR MAIN BOND JUMPER	INTEGRATED BUS BAR CASE BOND JUMPER	CONCRETE ENCASED ELECTRODE (UFER)	GROUNDING ELECTRODE CONDUCTOR TO ROD, PIPE OR PLATE	CU or CU-CLAD STEEL GROUND ROD	COPPER GROUND RING CONDUCTOR	METALLIC PIPING BONDING CONDUCTOR	BUILDING STEEL BONDING CONDUCTOR	BUILDING COUNTER POISE
CODE REFERENCE AMPACITY		N.E.C. 250.102	N.E.C. 250.102	N.E.C. 250.50(c) 250.66(b)	N.E.C. 250.52(d) 250.66(a)	N.E.C. 250.52(c)(2)	N.E.C. 250.50(d) 250.66(c)	N.E.C. 250.50(a) 250.66	N.E.C. 250.50(b) 250.66	N.E.C. 250.66
100 AMP		#4	#4	#4	#6	5/8"x8"	#2	#4	#4	#2/0
225 AMP		#2	#2	#4	#6	5/8"x8"	#2	#2	#2	#2

SHALL BE SIZED TO ACCOMMODATE ALL GROUND WIRE LUGS AS INDICATED ON GROUNDING DIAGRAM AND/OR REFERENCED ELSEWHERE ON PLANS OR SPECIFICATIONS



UNISTRUT MOUNTING POST DETAIL
NOT TO SCALE



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SANDOVAL COUNTY, NEW MEXICO
SANDOVAL COUNTY FIRE 41 TANK PROJECT
PLACITAS, NEW MEXICO
POWER RISER DIAGRAM AND PANEL SCHEDULES

THOMAS F. RICHIE
Professional Engineer
25211
3/18/24

23190

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