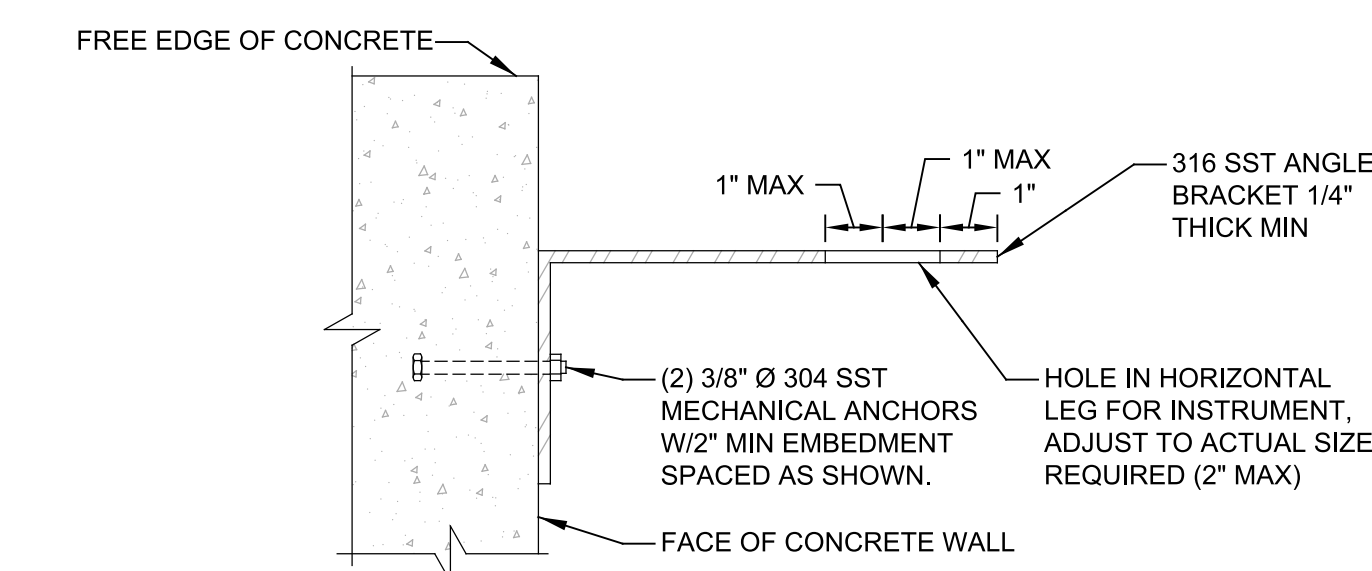


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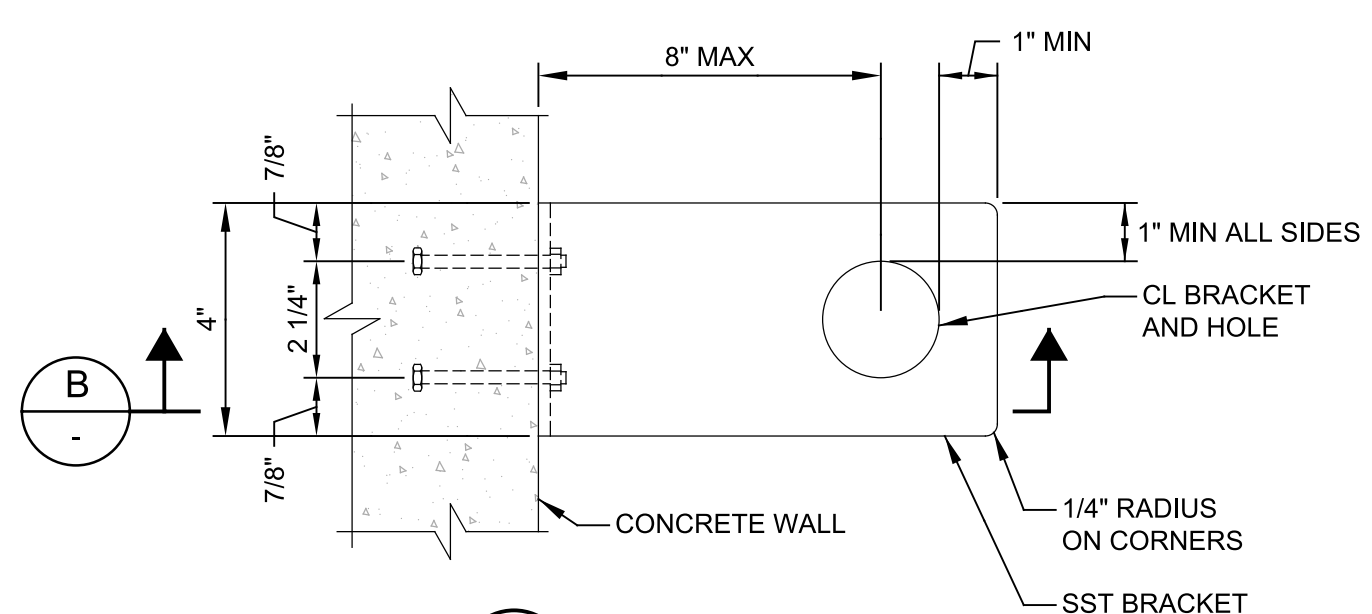
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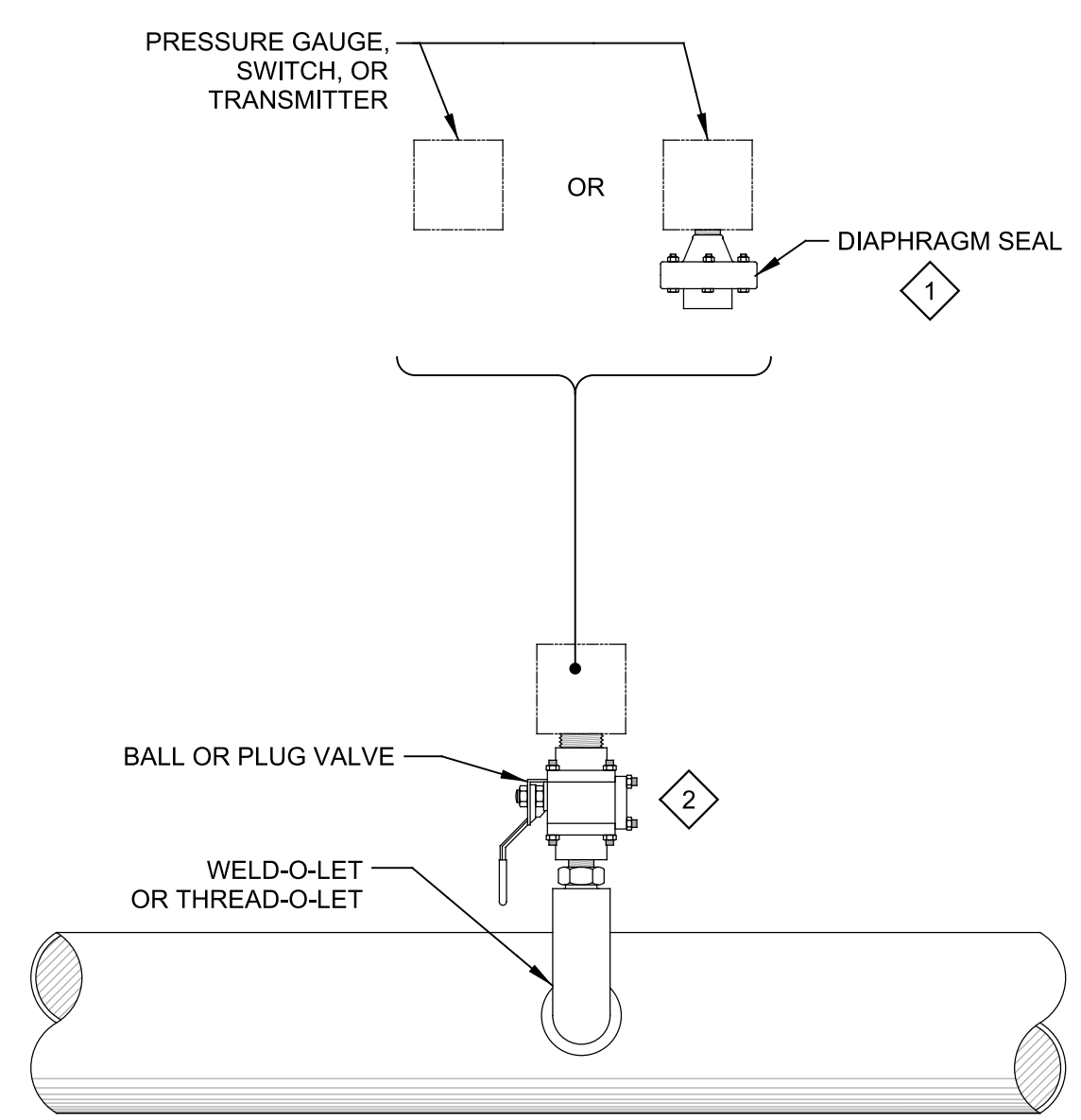


B SECTION



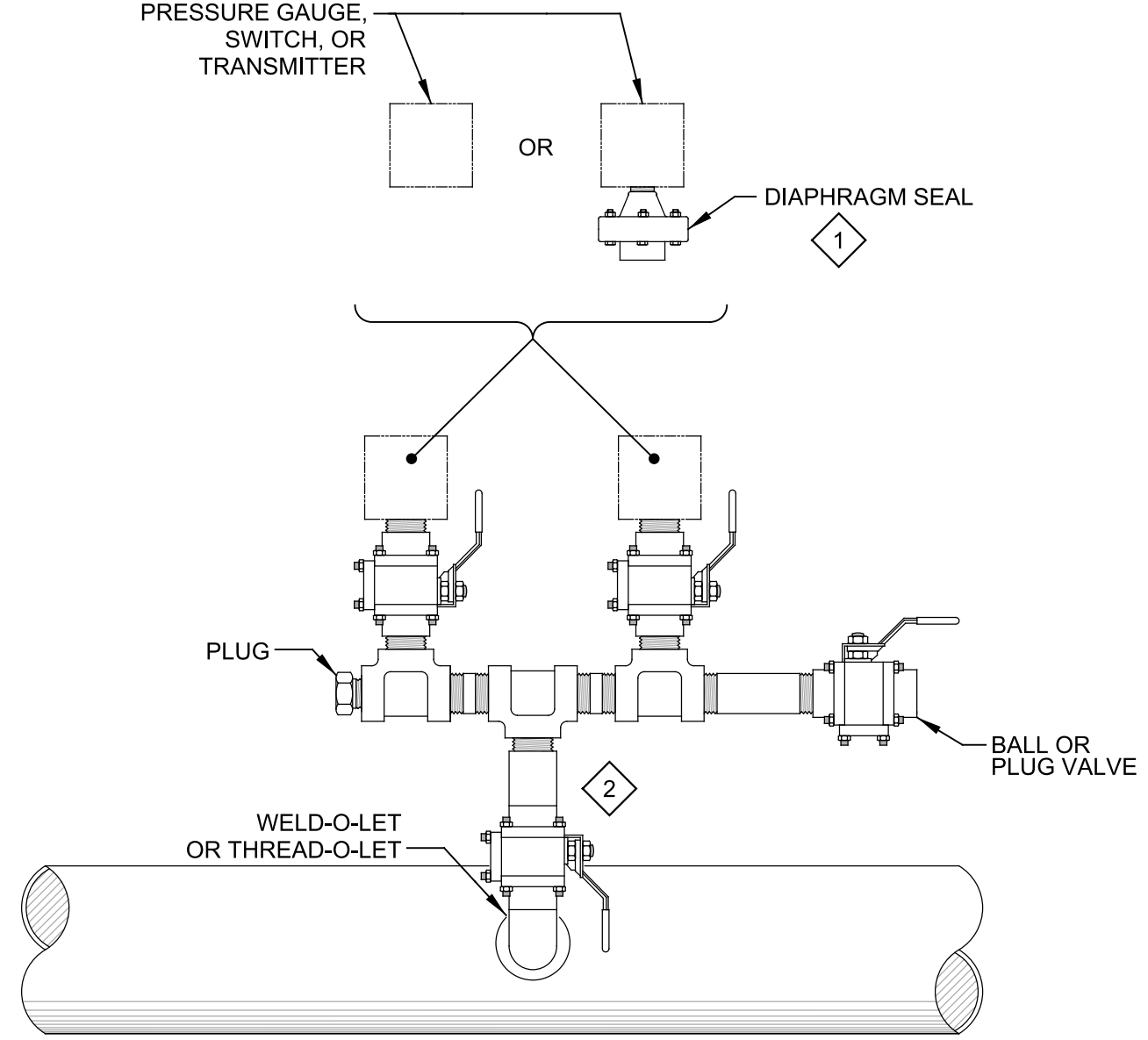
A TOP PLAN

NL901 ULTRASONIC LEVEL TRANSDUCER MOUNTING BRACKET
TYP J 06-15-20



- NOTES:
- 1 USE THE INSTRUMENT DATA SHEETS IN DIVISION 17 OR DIVISIONS 40 SPECS TO IDENTIFY INDIVIDUAL REQUIREMENTS FOR DIAPHRAGM SEALS.
 - 2 ALL VALVE AND PIPE MATERIAL SHALL BE COMPATIBLE WITH PROCESS FLUID.

NP503 ISOLATING PRESSURE INSTRUMENT MOUNTING DETAIL
TYP S



- NOTES:
- 1 USE THE INSTRUMENT DATA SHEETS IN DIVISION 17 OR DIVISIONS 40 SPECS TO IDENTIFY INDIVIDUAL REQUIREMENTS FOR DIAPHRAGM SEALS.
 - 2 ALL VALVE AND PIPE MATERIAL SHALL BE COMPATIBLE WITH PROCESS FLUID.

NP501 MULTIPLE PRESSURE INSTRUMENTS MOUNTING DETAIL
TYP S

REV	DATE	BY	DESCRIPTION

DESIGNED
CE
DRAWN
CE
CHECKED
DJC
DATE
JANUARY 2023



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Date: 2023.04.08 12:21:09-0800



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INSTRUMENTATION
TYPICAL INSTRUMENTATION DETAILS

VERIFY SCALES
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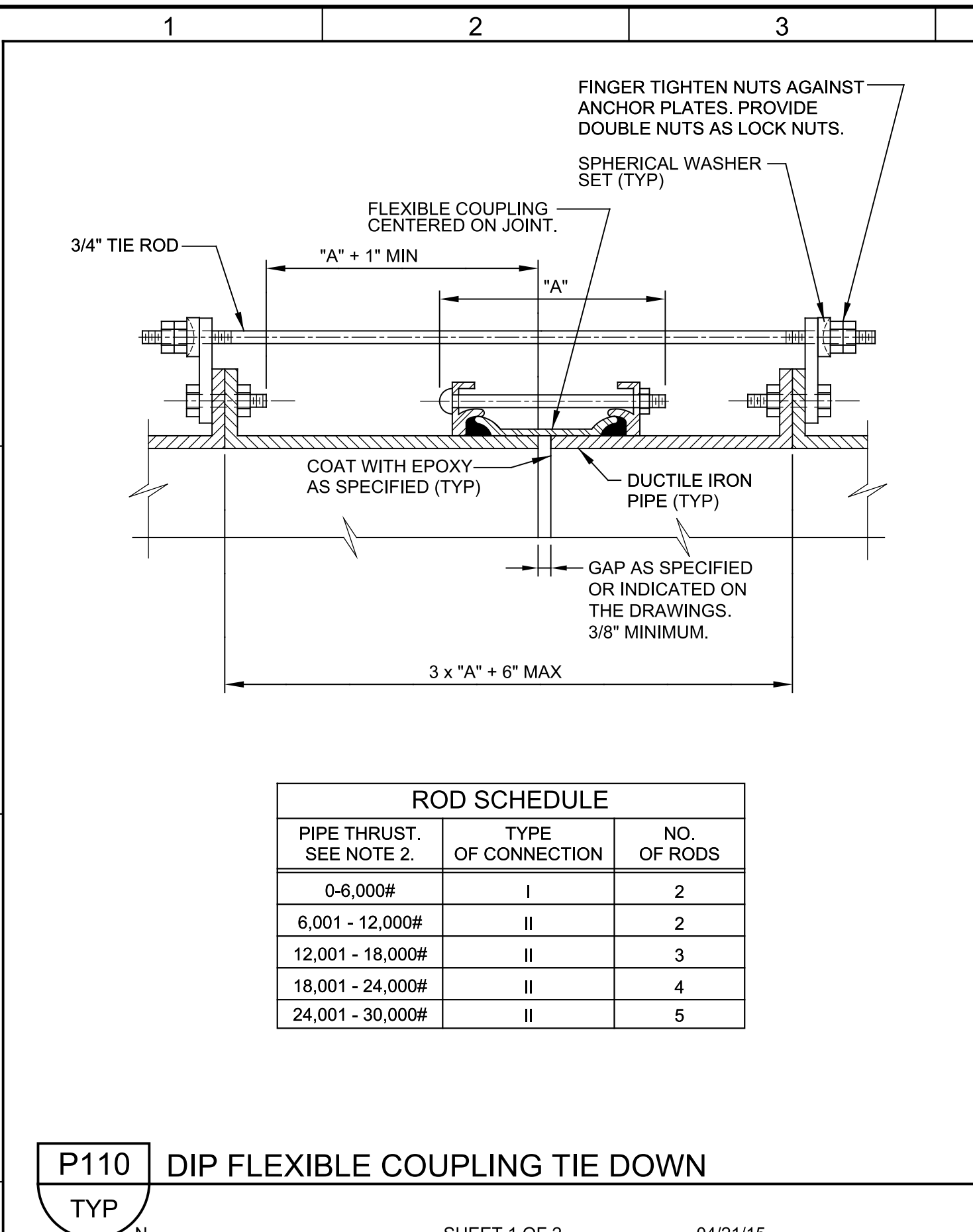
JOB NO.
7310L.10
DRAWING NO.
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SHEET NO.
33 OF 130

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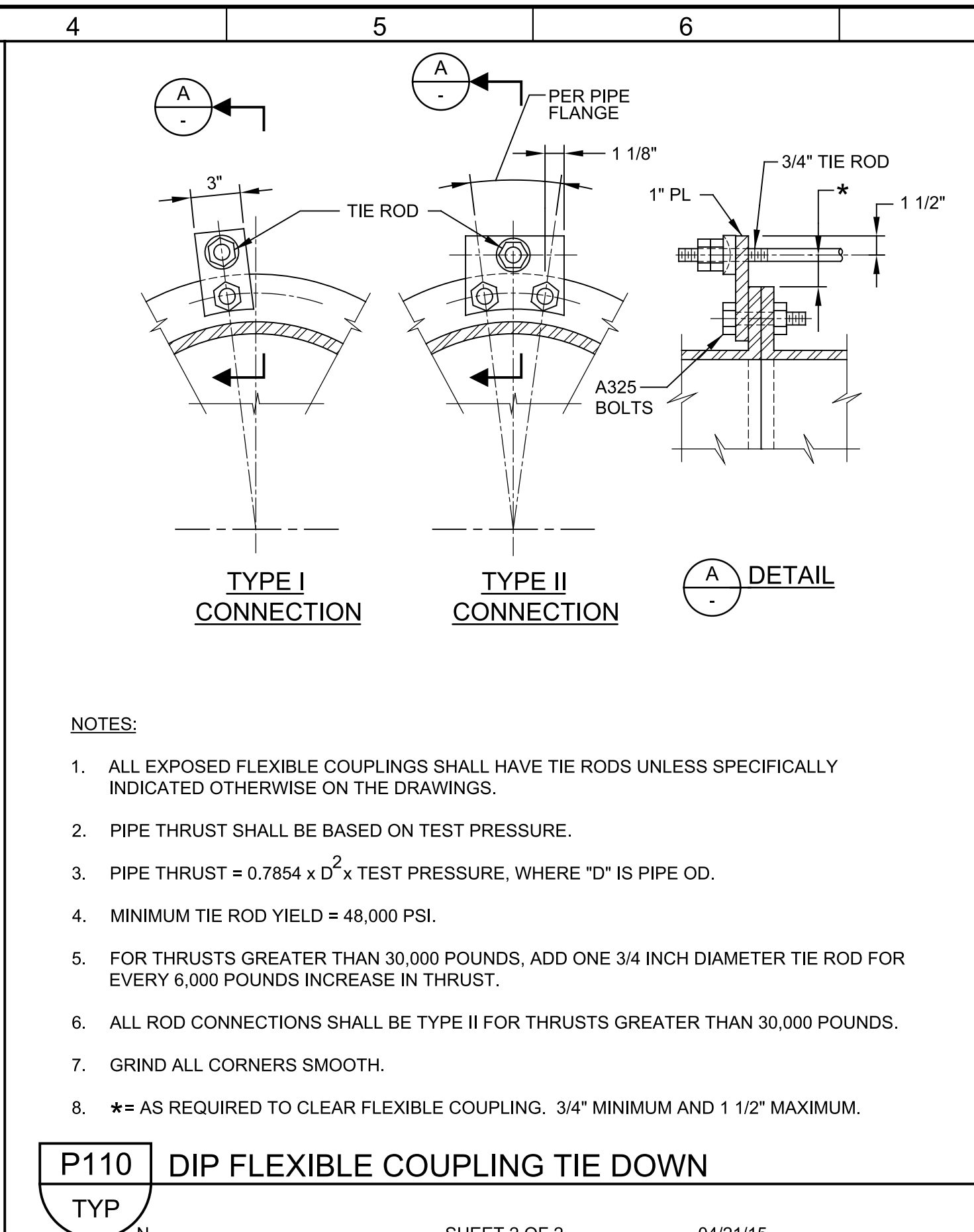
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ROD SCHEDULE

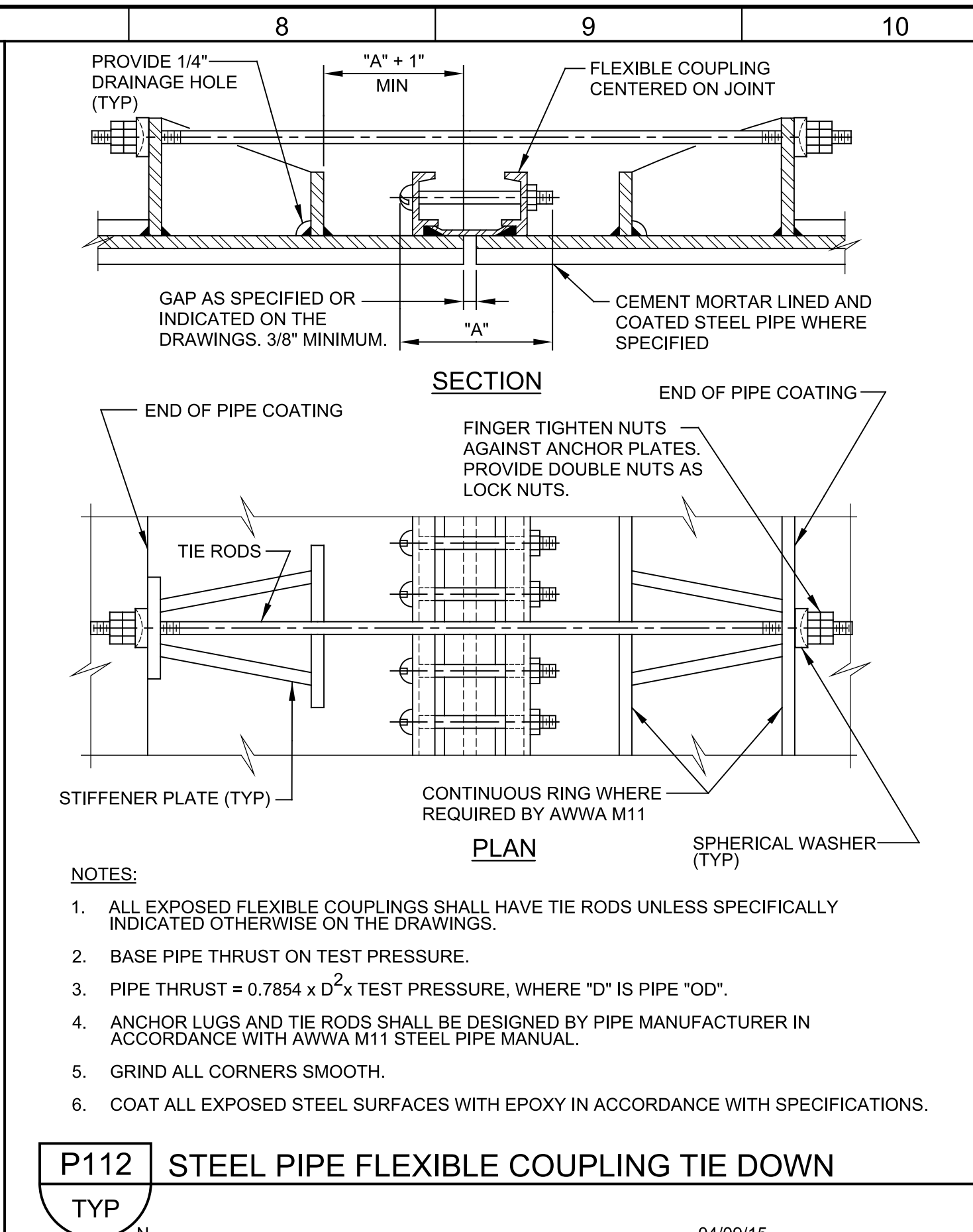
PIPE THRUST. SEE NOTE 2.	TYPE OF CONNECTION	NO. OF RODS
0-6,000#	I	2
6,001 - 12,000#	II	2
12,001 - 18,000#	II	3
18,001 - 24,000#	II	4
24,001 - 30,000#	II	5

P110 DIP FLEXIBLE COUPLING TIE DOWN
TYP
SHEET 1 OF 2 04/21/15



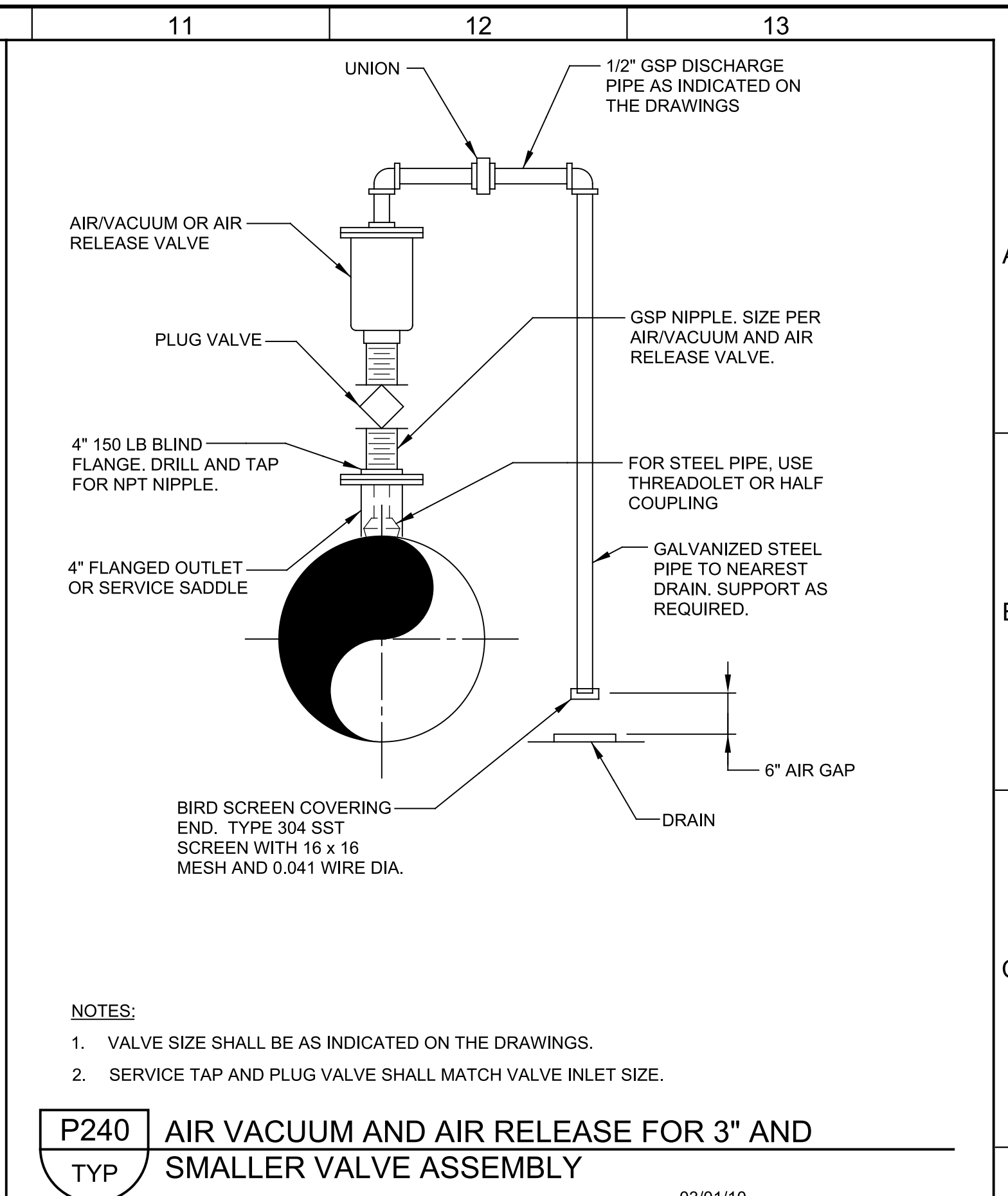
- NOTES:**
- ALL EXPOSED FLEXIBLE COUPLINGS SHALL HAVE TIE RODS UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
 - PIPE THRUST SHALL BE BASED ON TEST PRESSURE.
 - PIPE THRUST = $0.7854 \times D^2 \times \text{TEST PRESSURE}$, WHERE "D" IS PIPE OD.
 - MINIMUM TIE ROD YIELD = 48,000 PSI.
 - FOR THRUSTS GREATER THAN 30,000 POUNDS, ADD ONE 3/4 INCH DIAMETER TIE ROD FOR EVERY 6,000 POUNDS INCREASE IN THRUST.
 - ALL ROD CONNECTIONS SHALL BE TYPE II FOR THRUSTS GREATER THAN 30,000 POUNDS.
 - GRIND ALL CORNERS SMOOTH.
 - * = AS REQUIRED TO CLEAR FLEXIBLE COUPLING. 3/4" MINIMUM AND 1 1/2" MAXIMUM.

P110 DIP FLEXIBLE COUPLING TIE DOWN
TYP
SHEET 2 OF 2 04/21/15



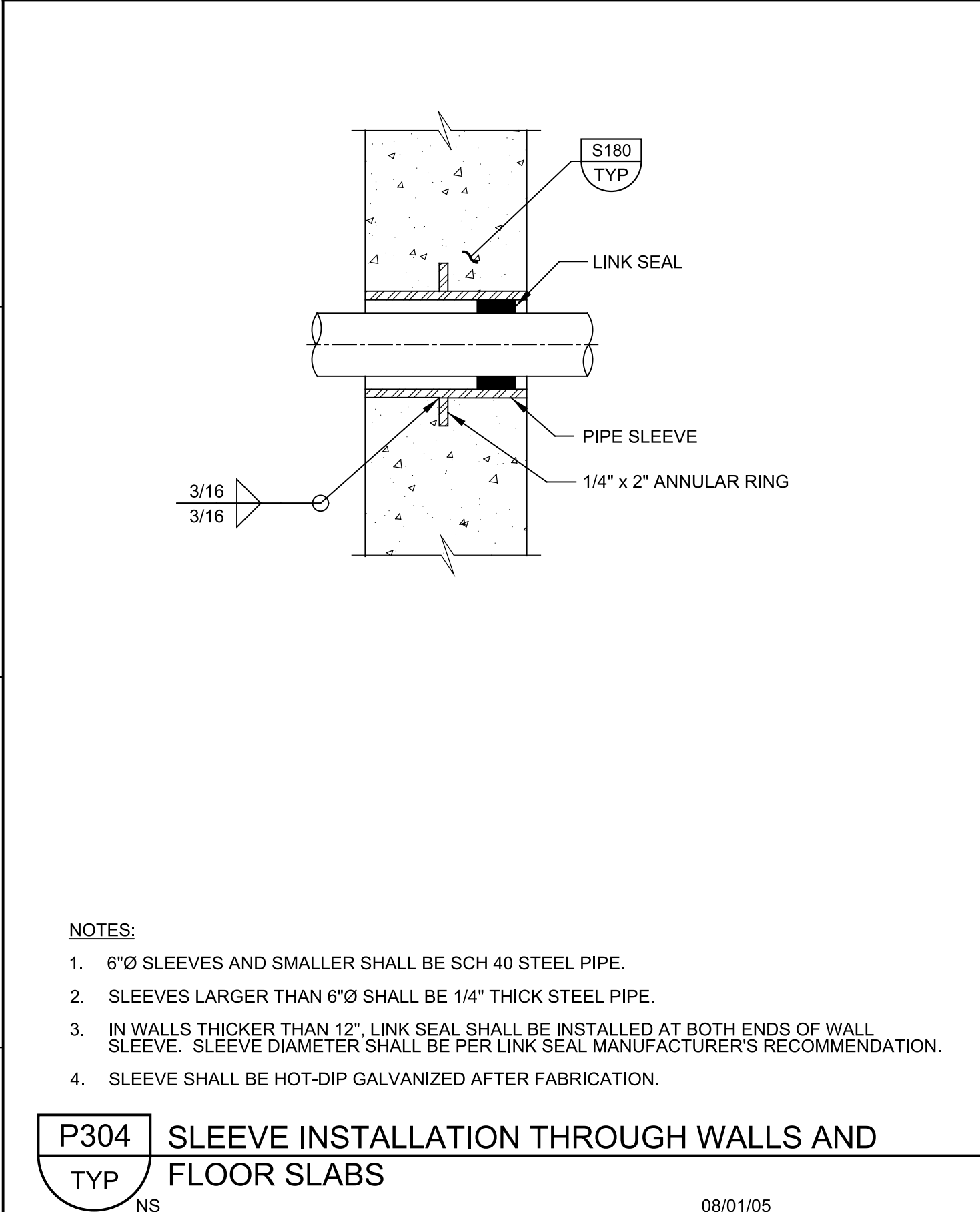
- NOTES:**
- ALL EXPOSED FLEXIBLE COUPLINGS SHALL HAVE TIE RODS UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
 - BASE PIPE THRUST ON TEST PRESSURE.
 - PIPE THRUST = $0.7854 \times D^2 \times \text{TEST PRESSURE}$, WHERE "D" IS PIPE "OD".
 - ANCHOR LUGS AND TIE RODS SHALL BE DESIGNED BY PIPE MANUFACTURER IN ACCORDANCE WITH AWWA M11 STEEL PIPE MANUAL.
 - GRIND ALL CORNERS SMOOTH.
 - COAT ALL EXPOSED STEEL SURFACES WITH EPOXY IN ACCORDANCE WITH SPECIFICATIONS.

P112 STEEL PIPE FLEXIBLE COUPLING TIE DOWN
TYP
04/09/15



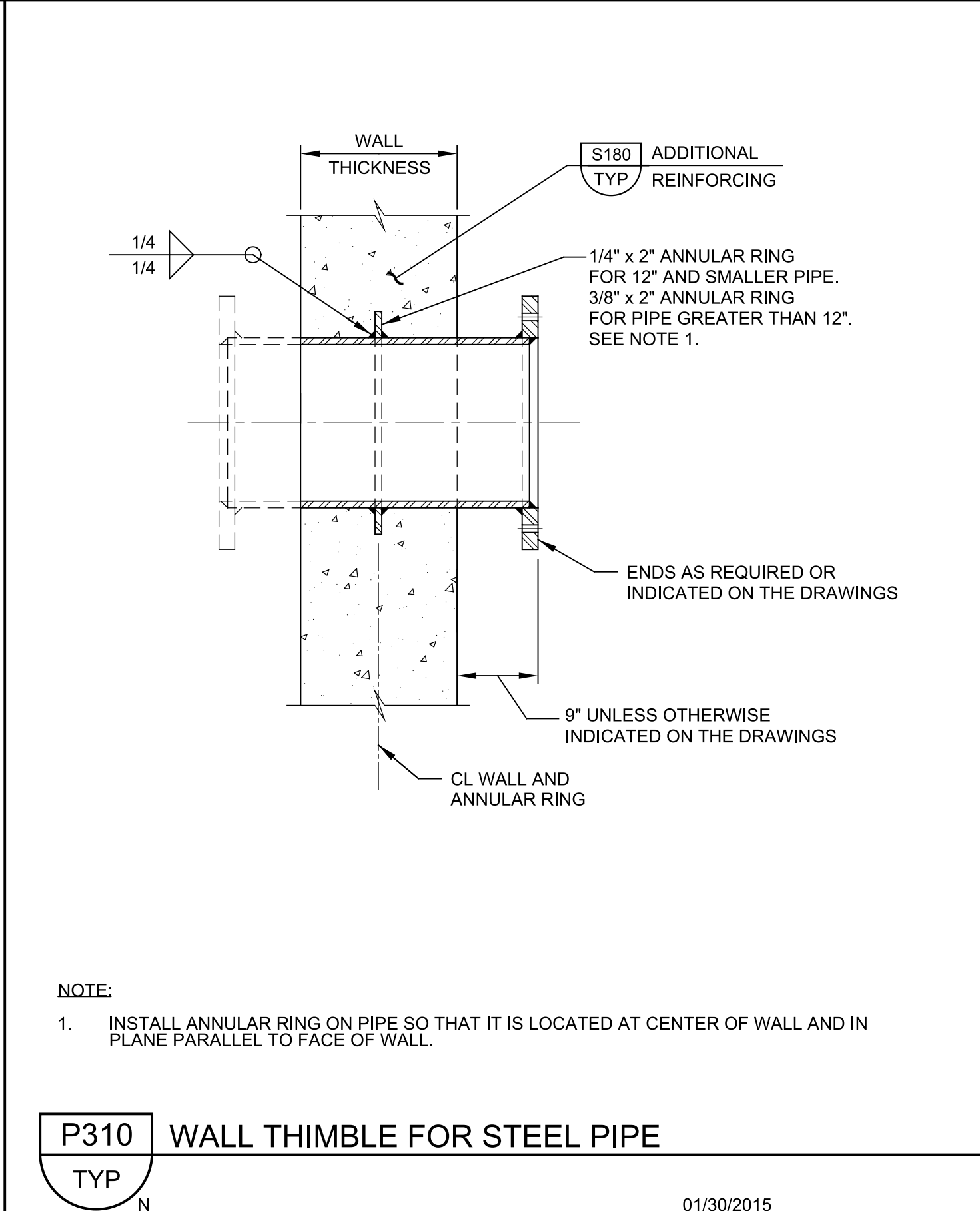
- NOTES:**
- VALVE SIZE SHALL BE AS INDICATED ON THE DRAWINGS.
 - SERVICE TAP AND PLUG VALVE SHALL MATCH VALVE INLET SIZE.

P240 AIR VACUUM AND AIR RELEASE FOR 3" AND SMALLER VALVE ASSEMBLY
TYP
03/01/10



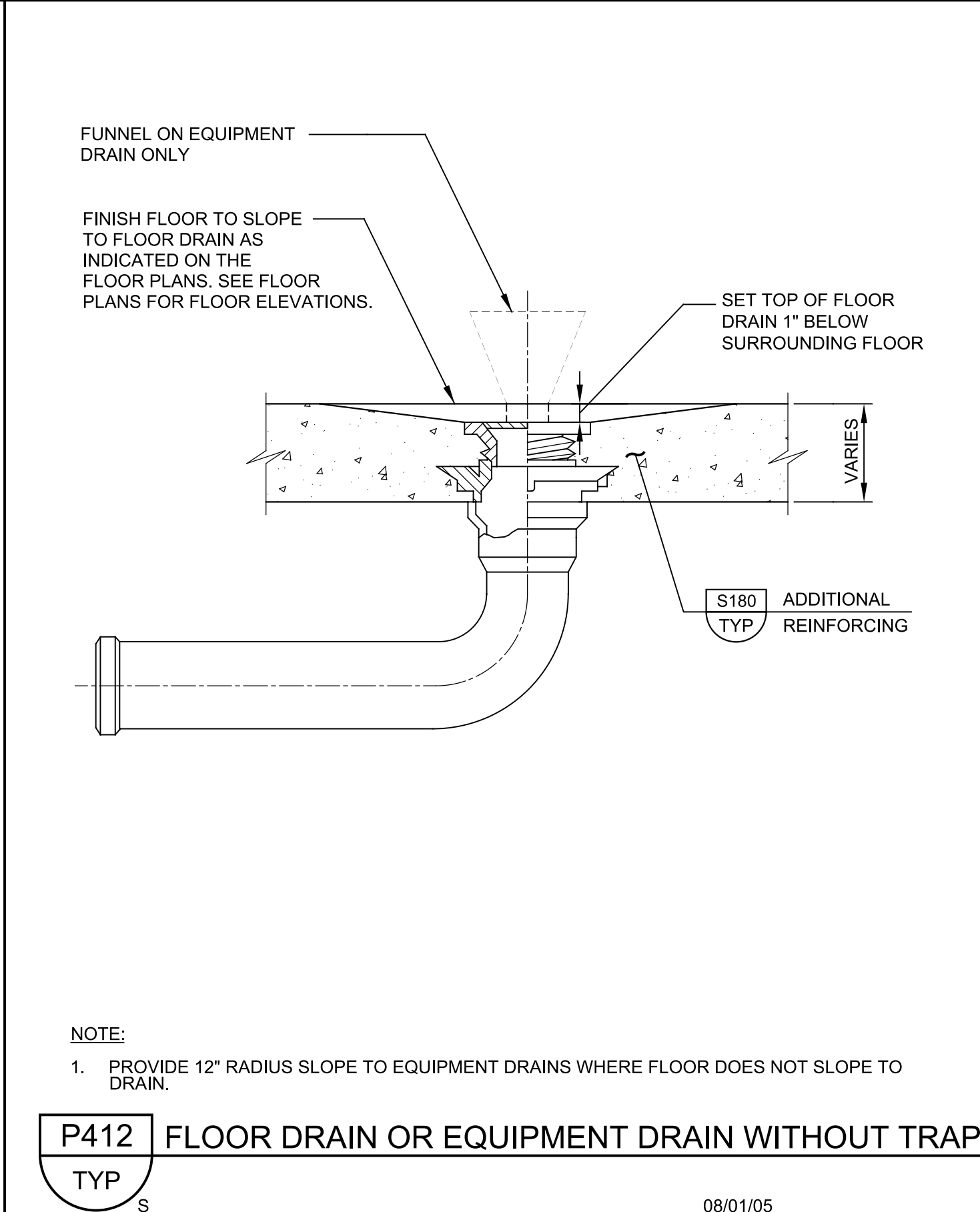
- NOTES:**
- 6" Ø SLEEVES AND SMALLER SHALL BE SCH 40 STEEL PIPE.
 - SLEEVES LARGER THAN 6" Ø SHALL BE 1/4" THICK STEEL PIPE.
 - IN WALLS THICKER THAN 12", LINK SEAL SHALL BE INSTALLED AT BOTH ENDS OF WALL SLEEVE. SLEEVE DIAMETER SHALL BE PER LINK SEAL MANUFACTURER'S RECOMMENDATION.
 - SLEEVE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

P304 SLEEVE INSTALLATION THROUGH WALLS AND FLOOR SLABS
TYP
08/01/05



- NOTE:**
- INSTALL ANNULAR RING ON PIPE SO THAT IT IS LOCATED AT CENTER OF WALL AND IN PLANE PARALLEL TO FACE OF WALL.

P310 WALL THIMBLE FOR STEEL PIPE
TYP
01/30/2015

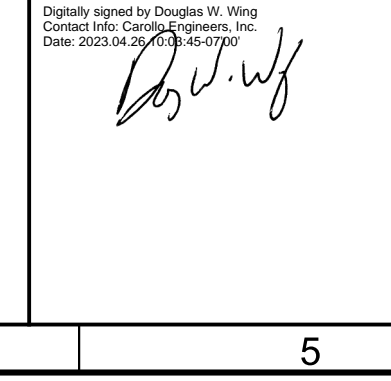


- NOTE:**
- PROVIDE 12" RADIUS SLOPE TO EQUIPMENT DRAINS WHERE FLOOR DOES NOT SLOPE TO DRAIN.

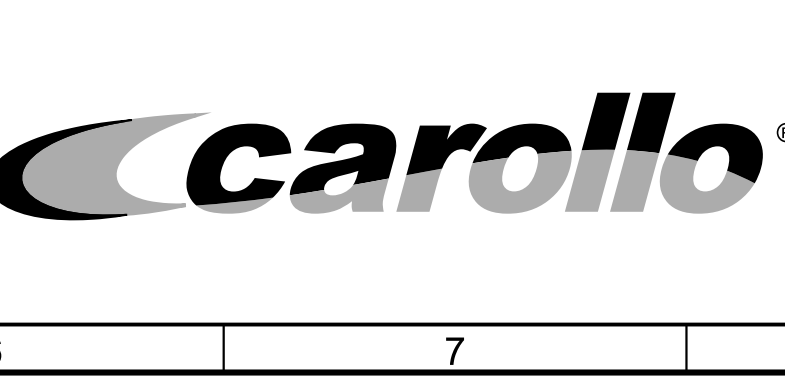
P412 FLOOR DRAIN OR EQUIPMENT DRAIN WITHOUT TRAP
TYP
08/01/05

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
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DRAWN
CE
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DWW
DATE
JANUARY 2023



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Contact Info: CarolloImprovements, Inc.
Date: 2023.04.26 09:07:07

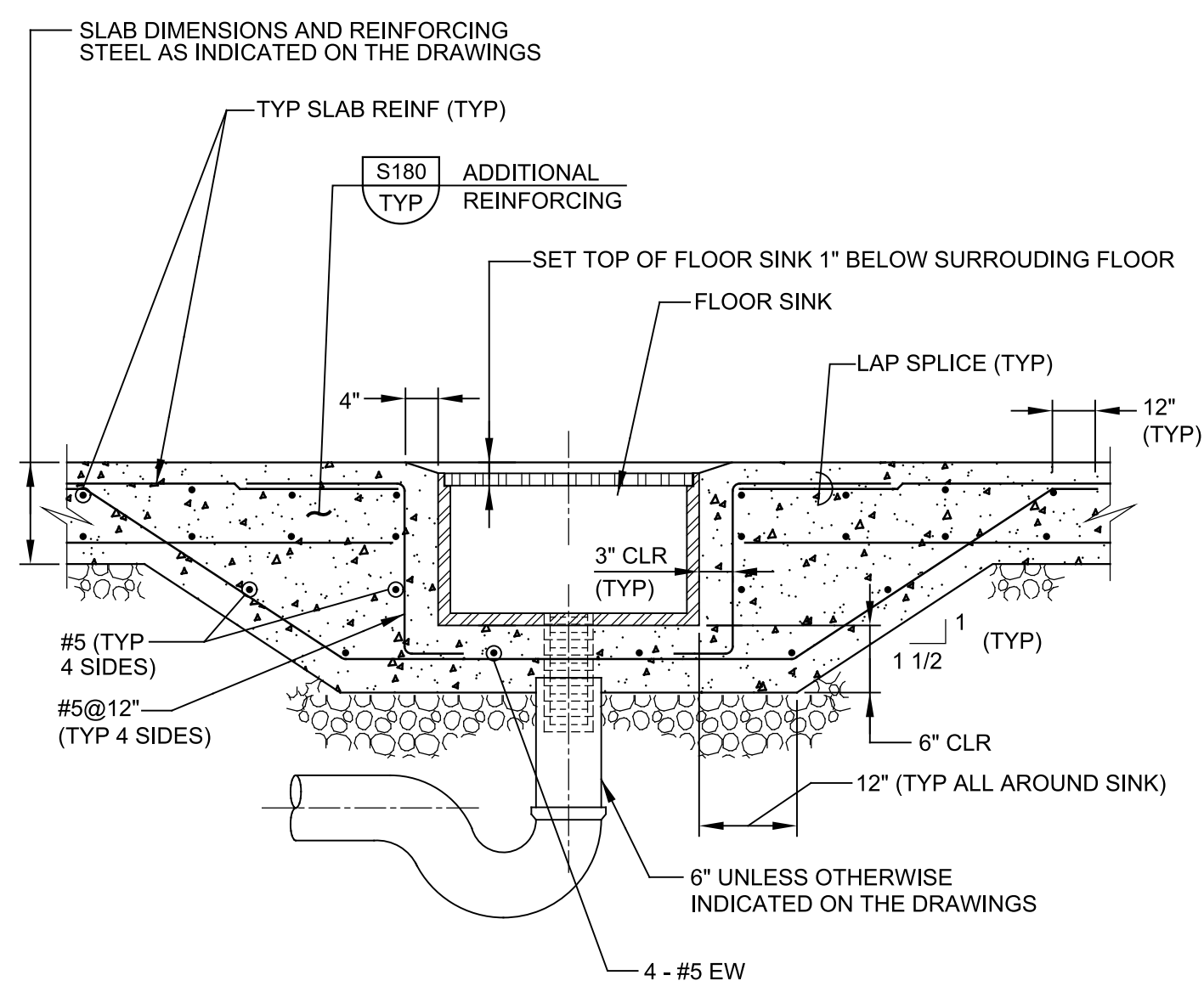


CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
TYPICALS
TYPICAL PIPING DETAILS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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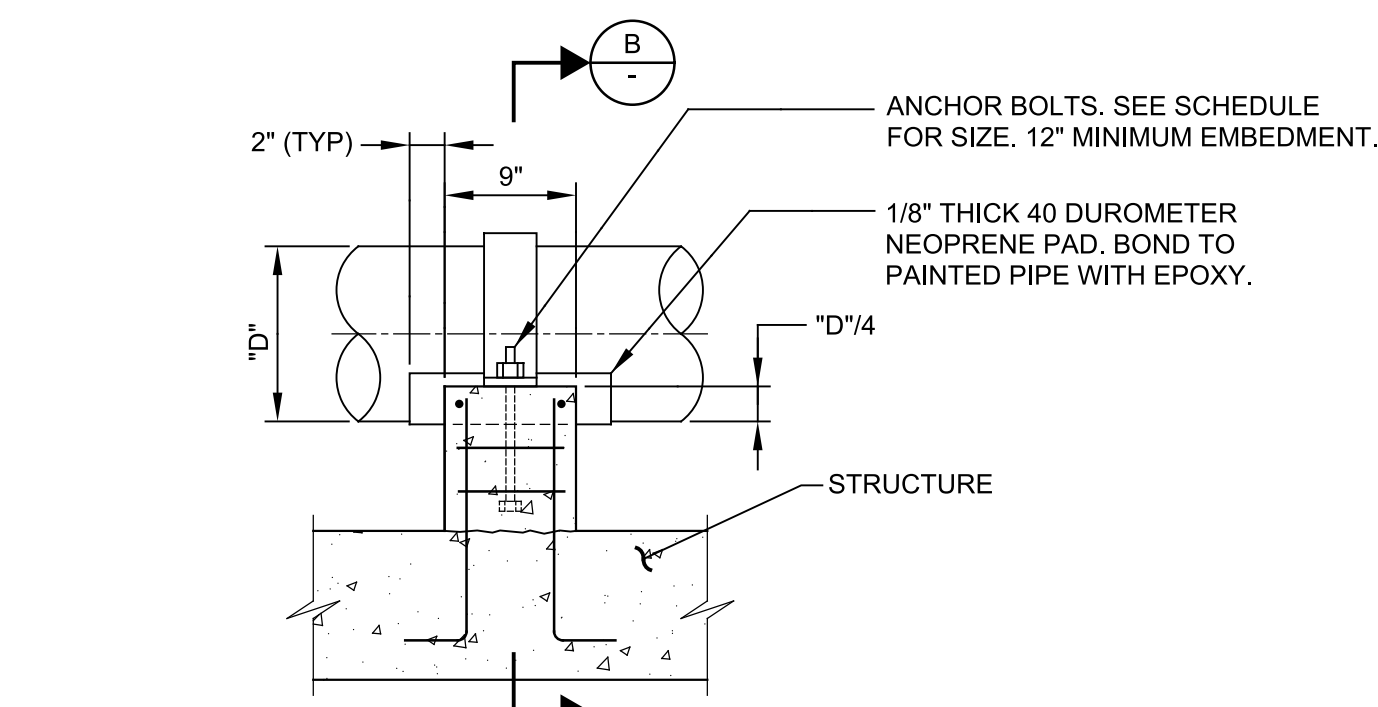
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DRAWING NO. TP01C
SHEET NO. 34 OF 130

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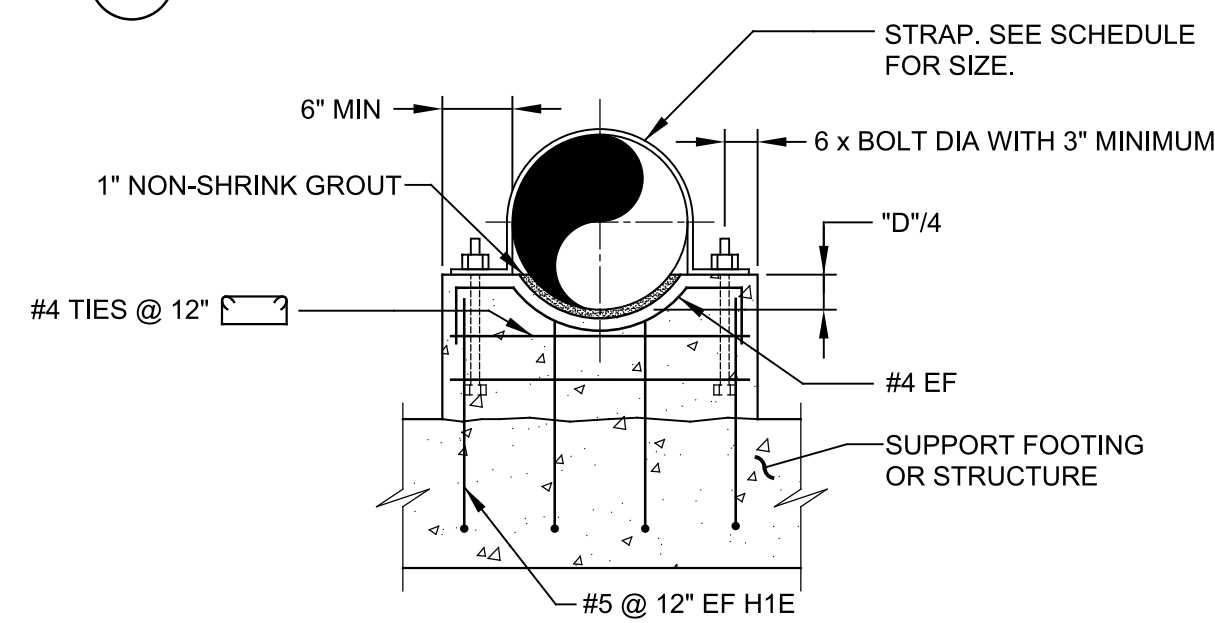


P420 FLOOR SINK
TYP

06/03/19



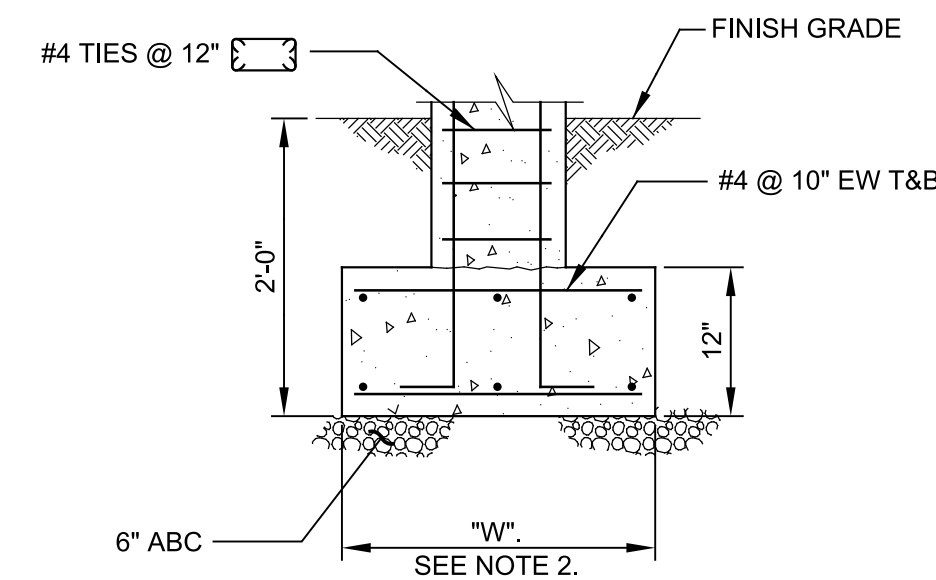
P602 CONCRETE PIPE SUPPORT
SECTION-SUPPORT AT STRUCTURE



P602 CONCRETE PIPE SUPPORT
SECTION

P602 CONCRETE PIPE SUPPORT
TYP

SHEET 1 OF 2 07/19/16



P602 CONCRETE PIPE SUPPORT
SECTION-ISOLATED SUPPORT WITH FOOTING

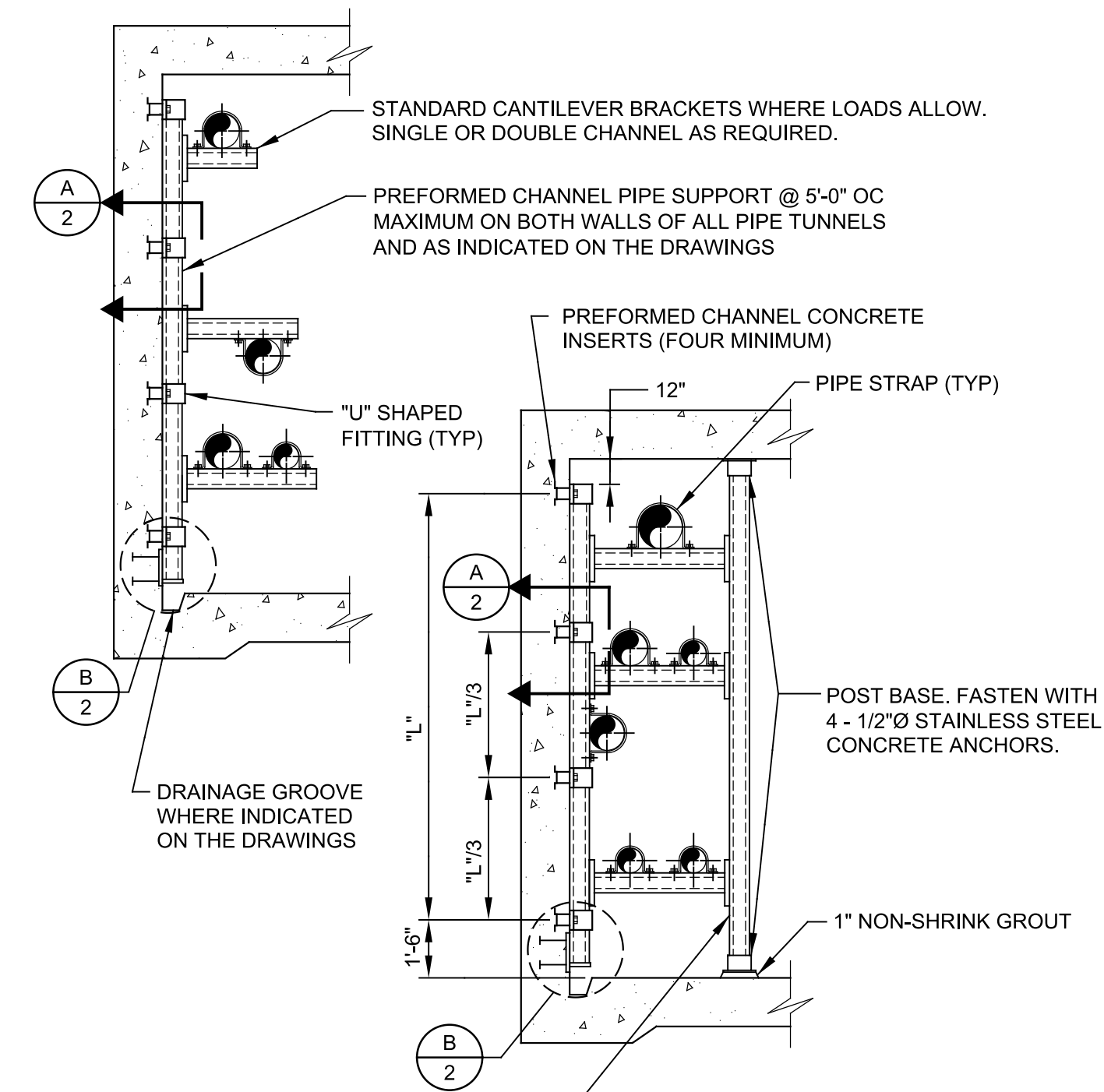
SCHEDULE		
PIPE SIZE	STRAP SIZE	ANCHOR BOLT DIA
8" - 12"	FB 1/4" x 4"	1/2"
14" - 24"	FB 5/16" x 4"	5/8"
26" - 36"	FB 3/8" x 4"	3/4"

NOTES:

- IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, MATERIAL FOR ANCHOR BOLTS AND STRAP SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, THE MATERIAL FOR ANCHOR BOLTS AND STRAP SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- THE WIDTH OF THE FOOTING "W" = 2'-6". THE LENGTH OF THE FOOTING = "D" + 2'-0".

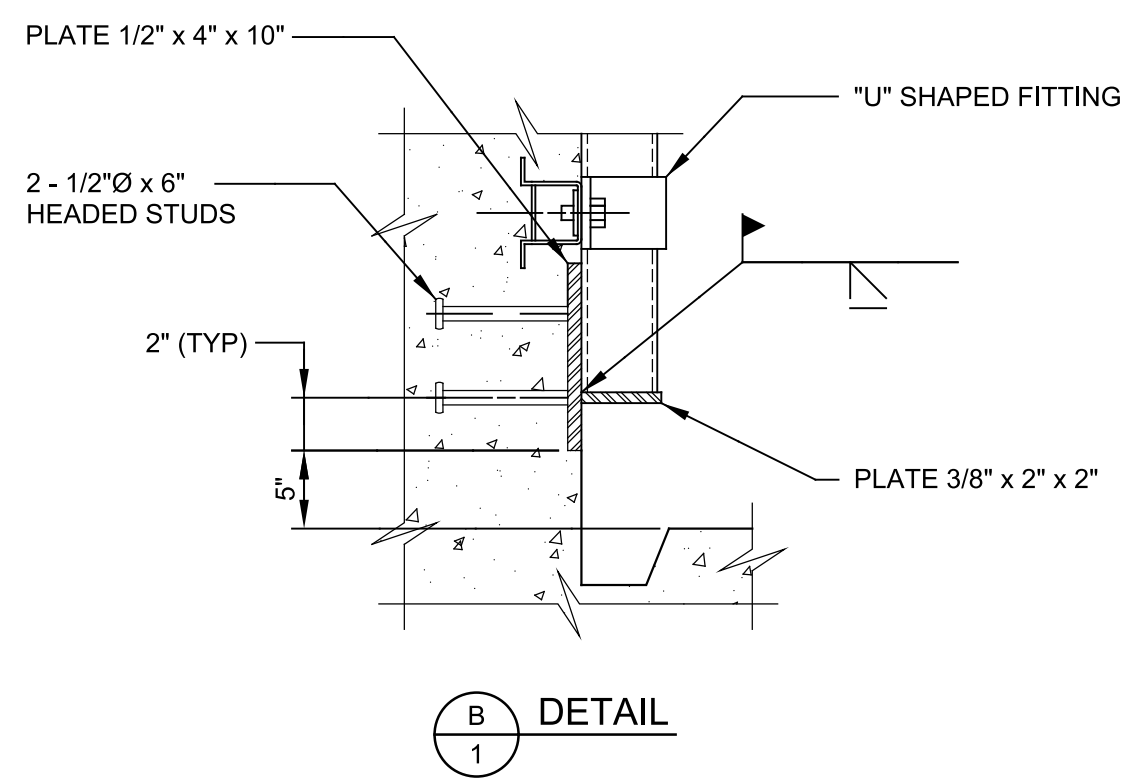
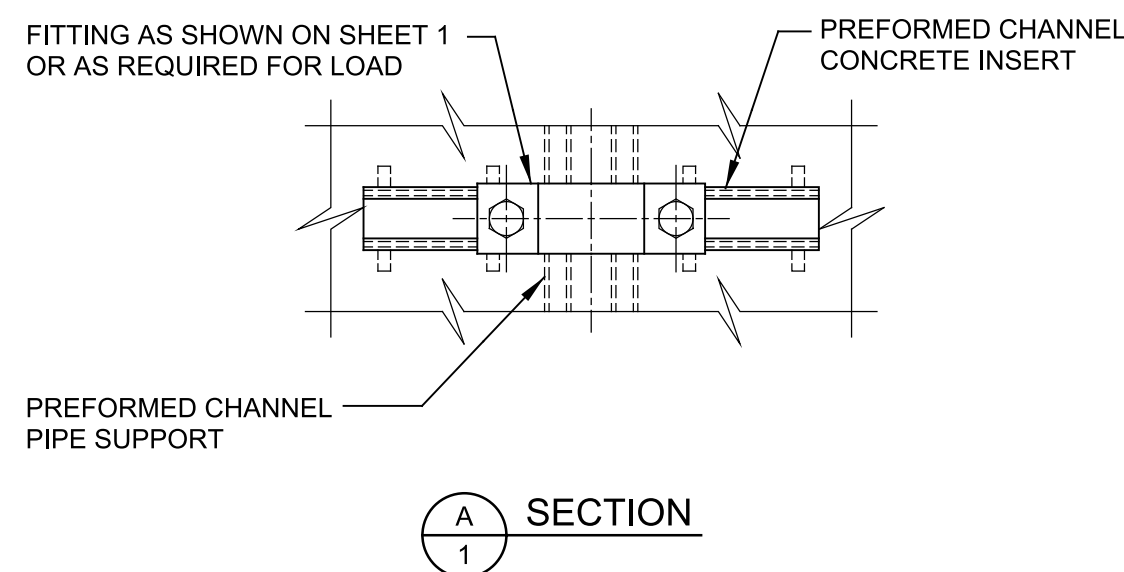
P602 CONCRETE PIPE SUPPORT
TYP

SHEET 2 OF 2 11/30/08



P612 WALL MOUNTED PREFORMED CHANNEL PIPE
SUPPORT RACK
TYP

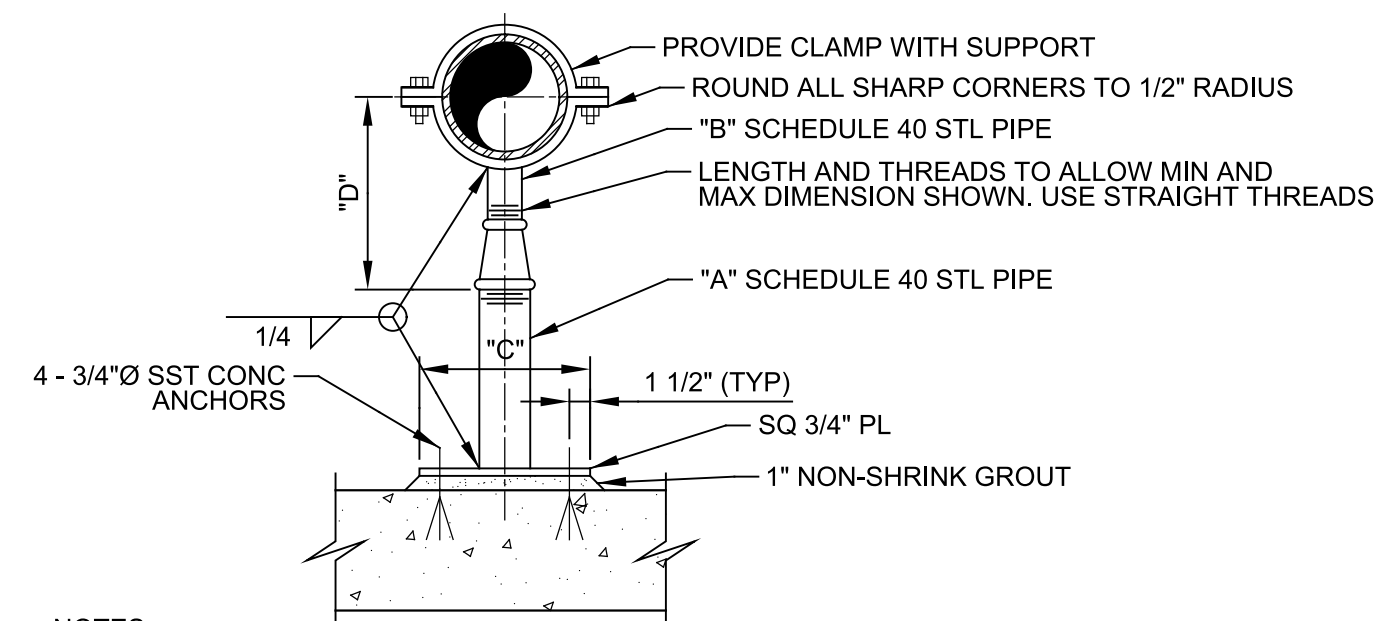
SHEET 1 OF 2 09/18/13



P612 WALL MOUNTED PREFORMED CHANNEL PIPE
SUPPORT RACK
TYP

SHEET 2 OF 2 09/18/13

SIZE OF SUPPORTED PIPE **	ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE (INCHES)			"D"	
	PIPE SIZE "A"	PIPE SIZE "B"	"C"	MINIMUM	MAXIMUM
2 1/2 *	2 1/2	1 1/2	12	8	13
3	2 1/2	1 1/2	12	8 1/2	13 1/2
3 1/2	2 1/2	1 1/2	12	8 1/2	13 1/2
4	3	2 1/2	12	9 1/2	14
6	3	2 1/2	12	10 1/2	15 1/2
8	3	2 1/2	12	11 1/2	16 1/2
10	3	2 1/2	12	13 1/2	18 1/2
12	3	2 1/2	12	15	19 1/2
14	4	3	12	16 1/2	20 1/2
16	4	3	12	17 1/2	22 1/2
18	6	3 1/2	14	19 1/2	24
20	6	3 1/2	14	21	25 1/2
24	6	4	14	23 1/2	28 1/2
30	6	4	14	27	31 1/2
32	6	4	14	28 1/2	32 1/2
36	6	4	14	30 1/2	34 1/2

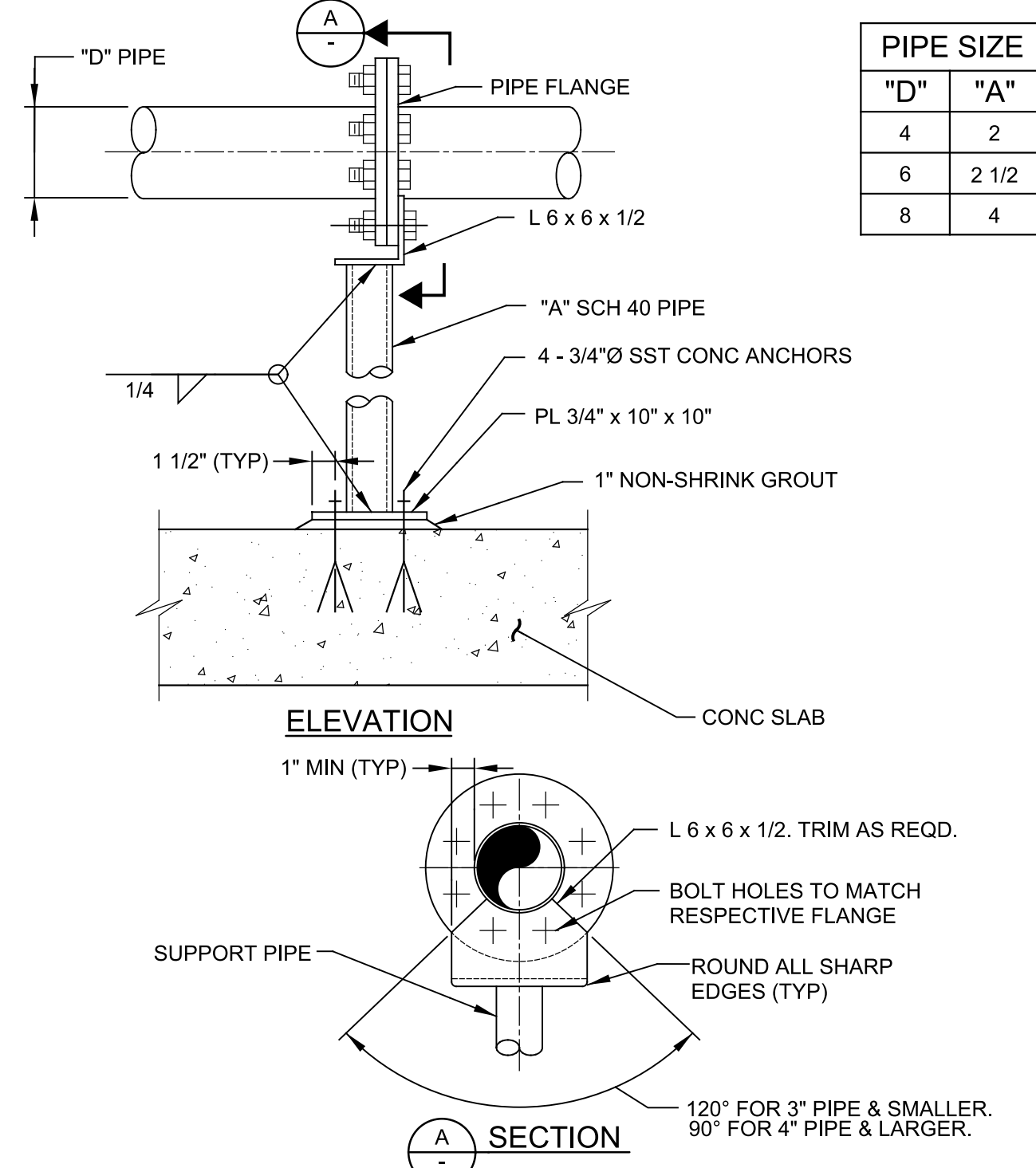


NOTES:

- HOT-DIP GALVANIZED SUPPORT AFTER FABRICATION.
- * = USE 2 1/2" SUPPORTS FOR PIPES LESS THEN 2 1/2".
- ** = NOMINAL PIPE SIZE.

P624 ADJUSTABLE PIPE SUPPORT
TYP

09/04/13



NOTE:

- IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, ALL MATERIAL FOR SUPPORT SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, ALL MATERIAL FOR SUPPORT SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON DRAWINGS. HOT-DIP GALVANIZE AFTER FABRICATION.

P626 PIPE SUPPORT WITH PIPE FLANGE
CONNECTION
TYP

07/01/13

REV	DATE	BY	DESCRIPTION

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CE
CHECKED
DWW
DATE
JANUARY 2023

REGISTERED PROFESSIONAL ENGINEER
CAROLLO
No. 38950
CIVIL
STATE OF CALIFORNIA

Digitally signed by Douglas W. Wieg
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.19 10:39:25 AM -0700

carollo

PETALUMA
1858

CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
TYPICALS
TYPICAL PIPING DETAILS

VERIFY SCALES
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0 1"
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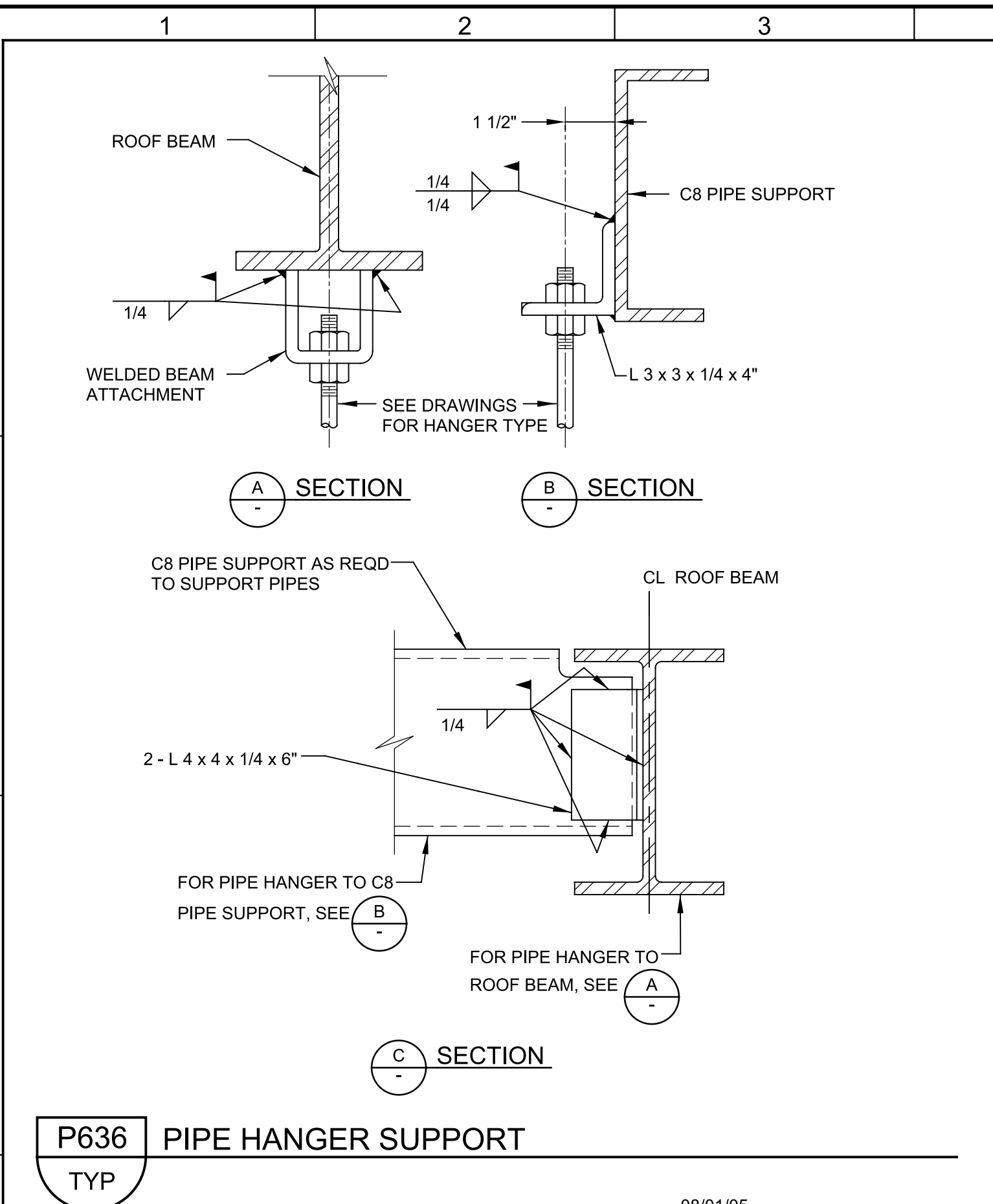
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7310L.10
DRAWING NO.
TP02C
SHEET NO.
35 OF 130

Plot Date: 03-APR-2023 9:41:32 AM

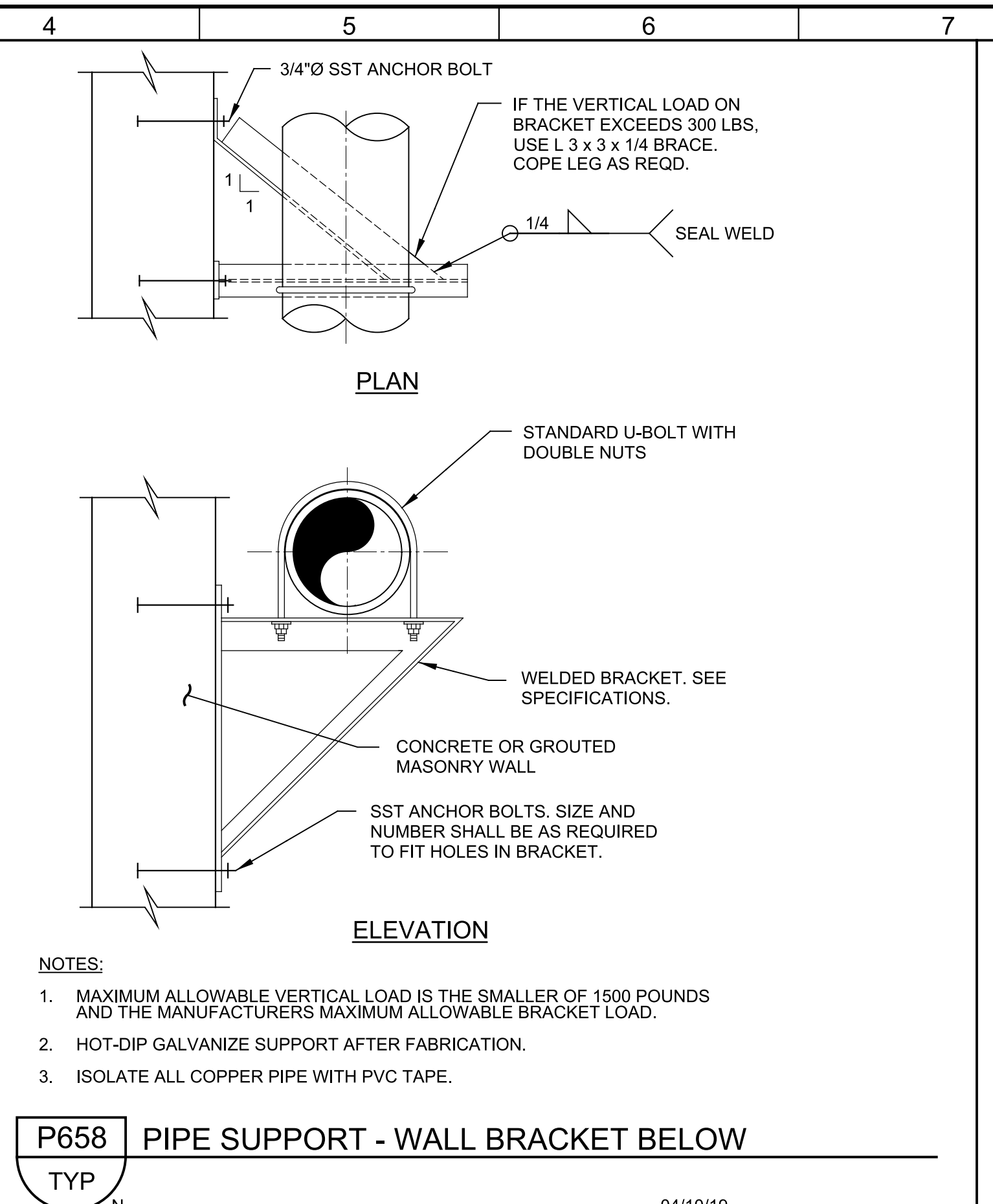
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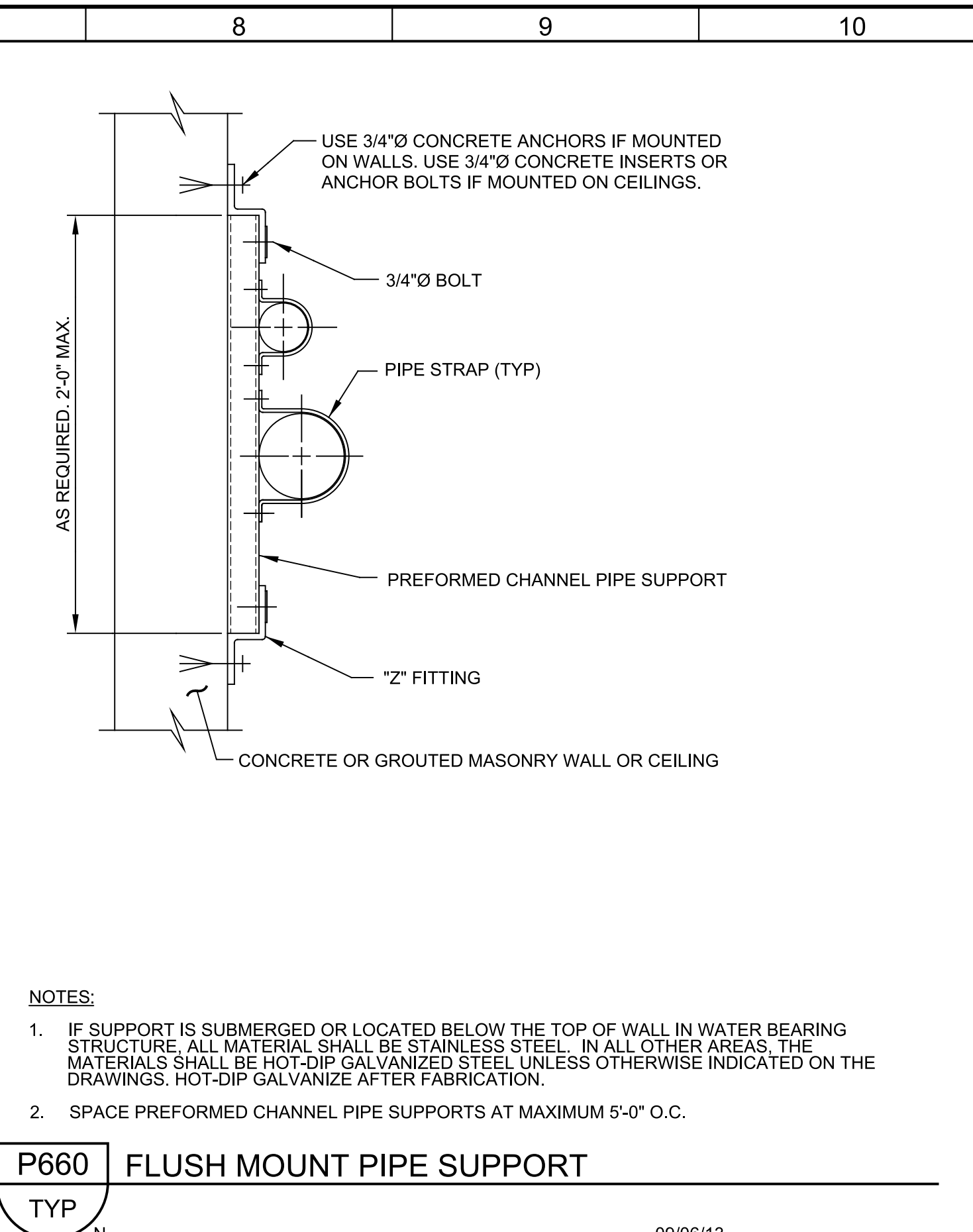
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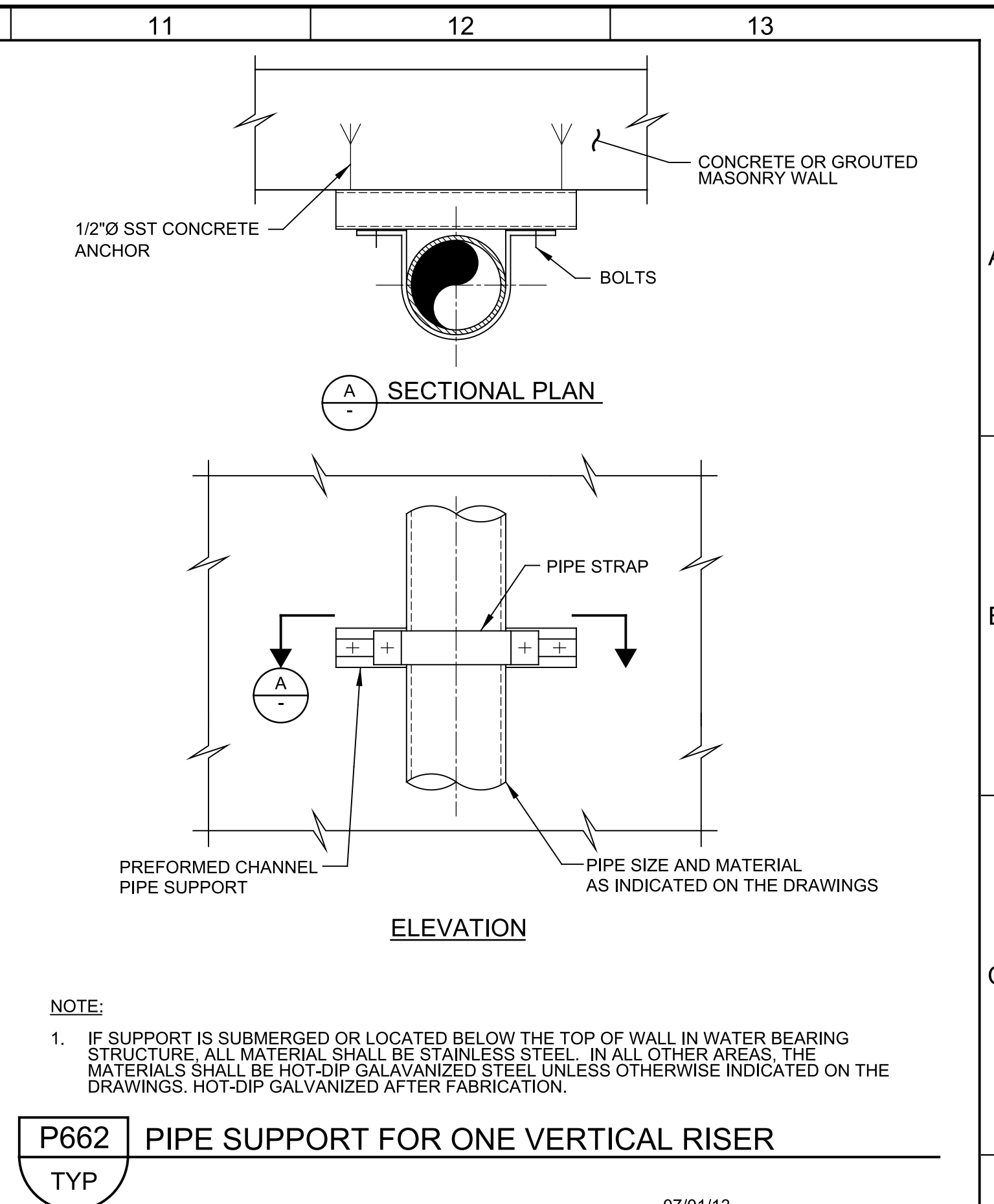
P636 PIPE HANGER SUPPORT
TYP
08/01/05



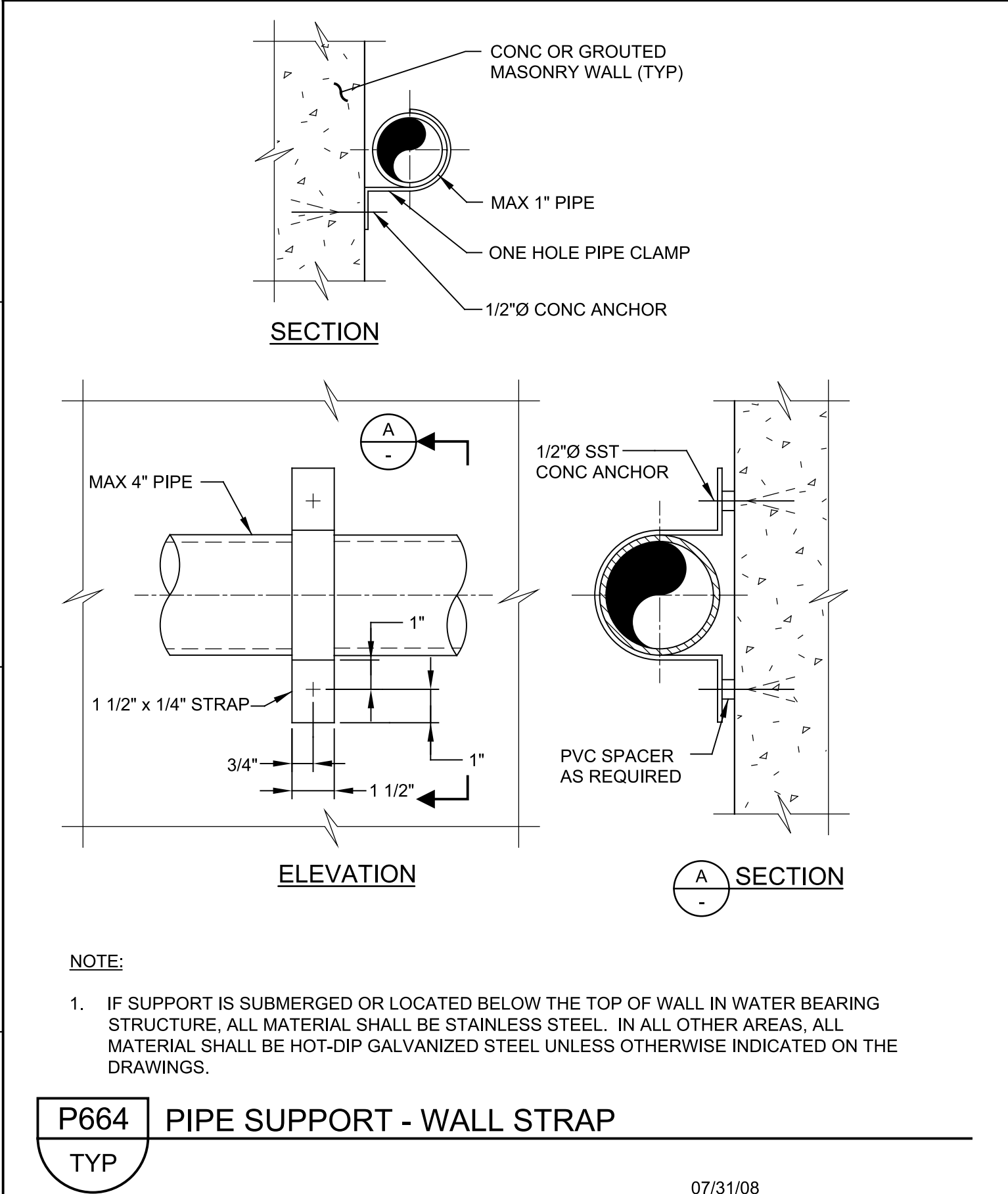
P658 PIPE SUPPORT - WALL BRACKET BELOW
TYP
04/10/19



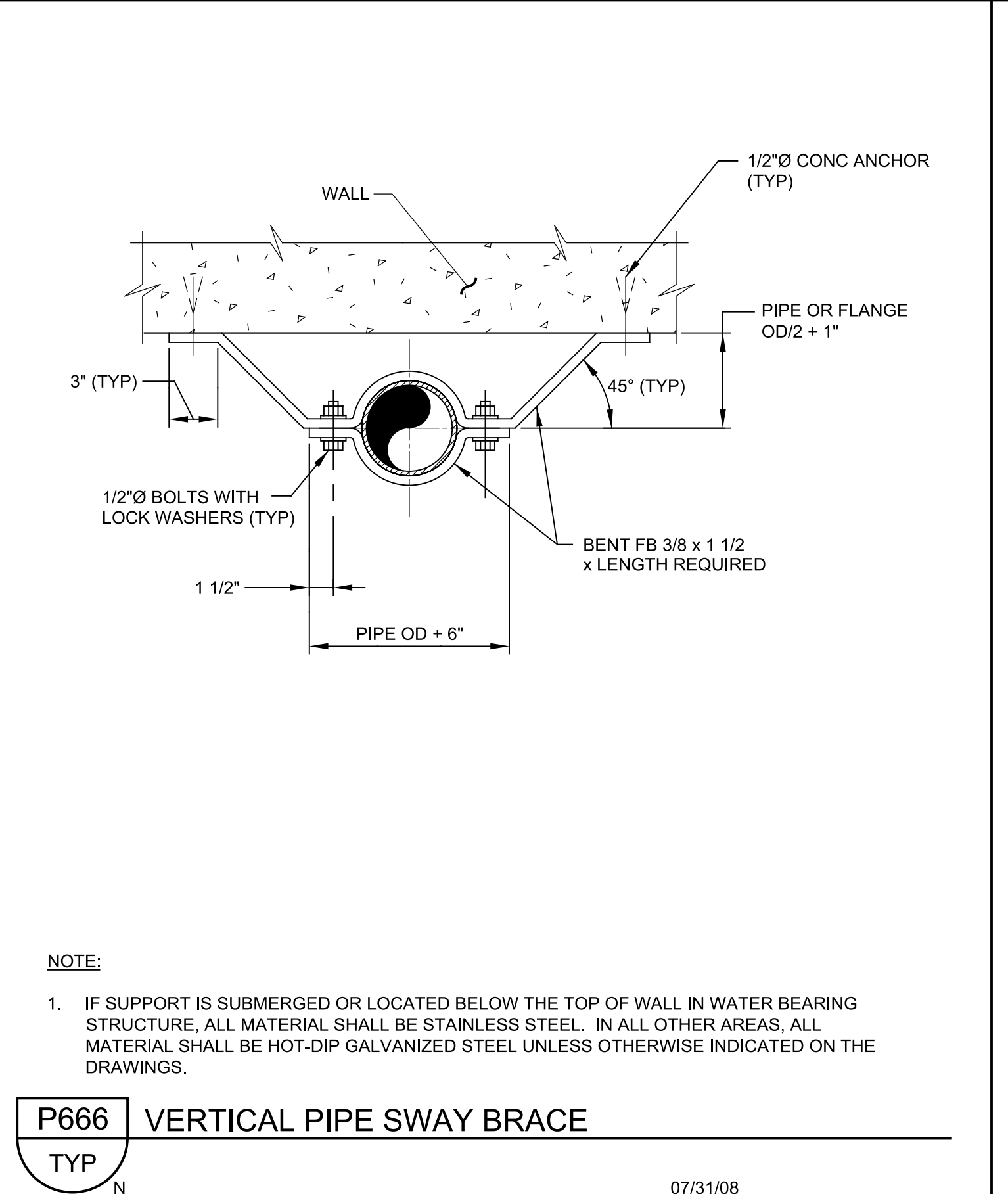
P660 FLUSH MOUNT PIPE SUPPORT
TYP
09/06/13



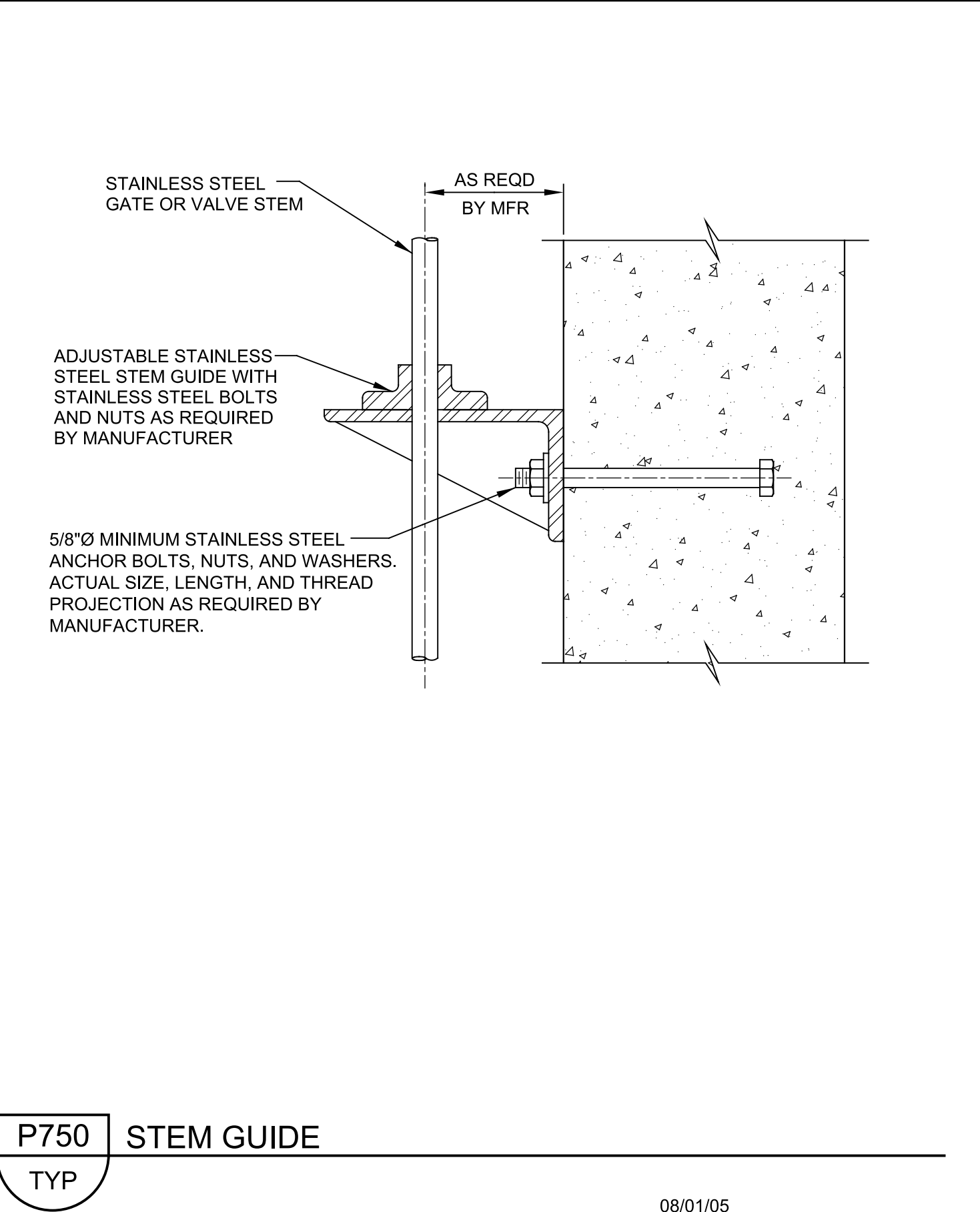
P662 PIPE SUPPORT FOR ONE VERTICAL RISER
TYP
07/01/13



P664 PIPE SUPPORT - WALL STRAP
TYP
07/31/08



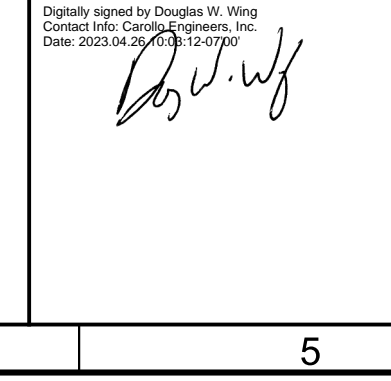
P666 VERTICAL PIPE SWAY BRACE
TYP
07/31/08



P750 STEM GUIDE
TYP
08/01/05

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Date: 2023.04.10 09:59:30 -0700



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
TYPICALS
TYPICAL PIPING DETAILS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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JOB NO. 7310L.10
DRAWING NO. TP03C
SHEET NO. 36 OF 130

Plot Date: 03-APR-2023 9:39:35 AM

User: svcpw

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: iweilch

1. MINIMUM CONCRETE DESIGN STRENGTHS LISTED BELOW. SEE DIVISION 03 SPECIFICATION FOR REQUIREMENTS FOR CONCRETE CONSTRUCTION.
STRUCTURAL CAST-IN-PLACE CONCRETE $f_c = 4000$ PSI
REINFORCING STEELASTM A615, GRADE 60 DEFORMED BARS UNO

2. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, MINIMUM REINFORCEMENT OF CONCRETE WALLS OR SLABS SHALL BE AS FOLLOWS. CONTACT ENGINEER FOR LOCATIONS INSIDE CONCRETE.
10" THICK OR LESS:#5 @ 12" EACH WAY.
MORE THAN 10" THICK:#5 @ 12" EACH WAY, EACH FACE.

3. WALL REINFORCEMENT AT CORNERS OR JUNCTIONS OF WALLS SHALL BE CONTINUOUS, LAP SPICED, OR TERMINATED IN AN ACI STANDARD 90 DEGREE HOOK. SEE DETAIL S144/TYP.

4. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, DOWELS BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCEMENT WHICH IS SPICED TO THE DOWELS.

5. SLAB, BEAM AND COLUMN REINFORCING BARS SHALL HAVE A MINIMUM EXTENSION OR ANCHORAGE INTO SUPPORTS IN ACCORDANCE WITH ACI 318 AND ACI 350.

6. PROVIDE STIRRUP SUPPORT BARS SHALL BE TO SECURE TOP BARS AGAINST DISPLACEMENT AS REQUIRED.

7. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONCRETE COVER OVER #11 AND SMALLER REINFORCING BARS SHALL BE AS FOLLOWS:
A. SLABS AND JOISTS:
FORMED CONCRETE SURFACES AND UNFORMED TOP SURFACES FOR DRY CONDITIONS
#7 BARS AND SMALLER.....1"
#8 BARS AND LARGER.....1 1/2"
FORMED CONCRETE SURFACES AND UNFORMED TOP SURFACES EXPOSED TO WEATHER, IN CONTACT WITH SOIL OR FLUIDS, OR LOCATED OVER FLUIDS.....2"
B. BEAMS AND COLUMNS:
FORMED CONCRETE SURFACES FOR DRY CONDITIONS:
STIRRUPS, SPIRALS, AND TIES.....1 1/2"
PRINCIPAL REINFORCEMENT.....2"
FORMED CONCRETE SURFACES EXPOSED TO WEATHER, IN CONTACT WITH SOIL OR FLUIDS, OR IN BEAMS LOCATED OVER FLUIDS:
STIRRUPS AND TIES.....2"
PRINCIPAL REINFORCEMENT.....2 1/2"

S101 REINFORCED CONCRETE NOTES
TYP
S, J SHEET 1 OF 3 04/13/20

C. WALLS:
FORMED CONCRETE SURFACES FOR DRY CONDITIONS:
#7 BARS AND SMALLER.....1"
#8 BARS AND LARGER.....1 1/2"
FORMED CONCRETE SURFACES EXPOSED TO WEATHER, OR IN CONTACT WITH SOIL OR FLUIDS.....2"

D. FOOTINGS AND SLABS ON GRADE:
FORMED VERTICAL CONCRETE SURFACES.....2"
AT UNFORMED CONCRETE SURFACES CAST AGAINST SOIL, ROCK, OR CONCRETE WORK MATS.....3"
TOP SURFACE OF FOOTINGS AND SLABS.....SAME AS SLABS

8. WATERSTOPS:
A. PROVIDE WATERSTOPS AT JOINTS IN SLABS AND WALLS OF LIQUID-CONTAINING STRUCTURES, AND PORTIONS OF STRUCTURES BELOW THE DESIGN GROUNDWATER LEVEL. MAKE WATERSTOPS CONTINUOUS THROUGH STRUCTURE, SPICING WATERSTOPS IN SLABS WITH WATERSTOPS IN WALLS.
B. END WATERSTOPS 3" BELOW TOP OF WALLS. WHERE TOP OF WALL IS COVERED BY A SLAB WITHOUT WATERSTOPS, CONTINUE WATERSTOP TO WALL/SLAB JOINT. WHERE TOP OF WALL IS COVERED BY A SLAB WITH WATERSTOPS, MAKE WATERSTOPS CONTINUOUS, SPICING WATERSTOPS IN WALLS WITH WATERSTOPS IN SLAB.

9. CURE CONCRETE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE WATER CURING IS SPECIFIED, MEMBRANE CURING IS NOT ALLOWED.
A. THE CONTRACTOR IS WARNED THAT WATER CURING IS DIFFICULT AT TIMES DUE TO WIND AND DRY CONDITIONS. STUDY SPECIFICATION REQUIREMENTS AND FURNISH ADEQUATE SYSTEMS TO PROVIDE WATER CURING WHERE REQUIRED.
B. KEEP WATER CURED SURFACES VISIBLY MOIST AT ALL TIMES. FLOOD TOPS OF WALLS NOT LESS THAN 3 TIMES DAILY.

10. DO NOT PLACE BACKFILL AGAINST WALLS UNTIL:
A. WALLS HAVE BEEN CAST TO FULL HEIGHT OF STRUCTURE AND CONCRETE HAS REACHED THE MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH (f_c).
B. CONNECTING SLABS AND BEAMS HAVE BEEN CAST AND CONCRETE IN THOSE ELEMENTS HAS REACHED THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f_c).

11. LAP SPLICES:
A. SEE TABLE 1 OF THIS DETAIL FOR LAP SPlice LENGTHS.
B. WHEN MULTIPLE BARS ARE SPICED AT THE SAME SECTION, THE "CLEAR BAR SPACING" IS DEFINED AS THE MINIMUM CLEAR DISTANCE BETWEEN THE BARS OUTSIDE THE SPlice LENGTH MINUS ONE BAR DIAMETER.

S101 REINFORCED CONCRETE NOTES
TYP
S, J SHEET 2 OF 3 04/13/20

C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, BARS AT A LAP SPlice SHALL BE IN CONTACT WITH EACH OTHER.
D. "TOP BARS" ARE HORIZONTAL REINFORCEMENT AT LOCATIONS WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

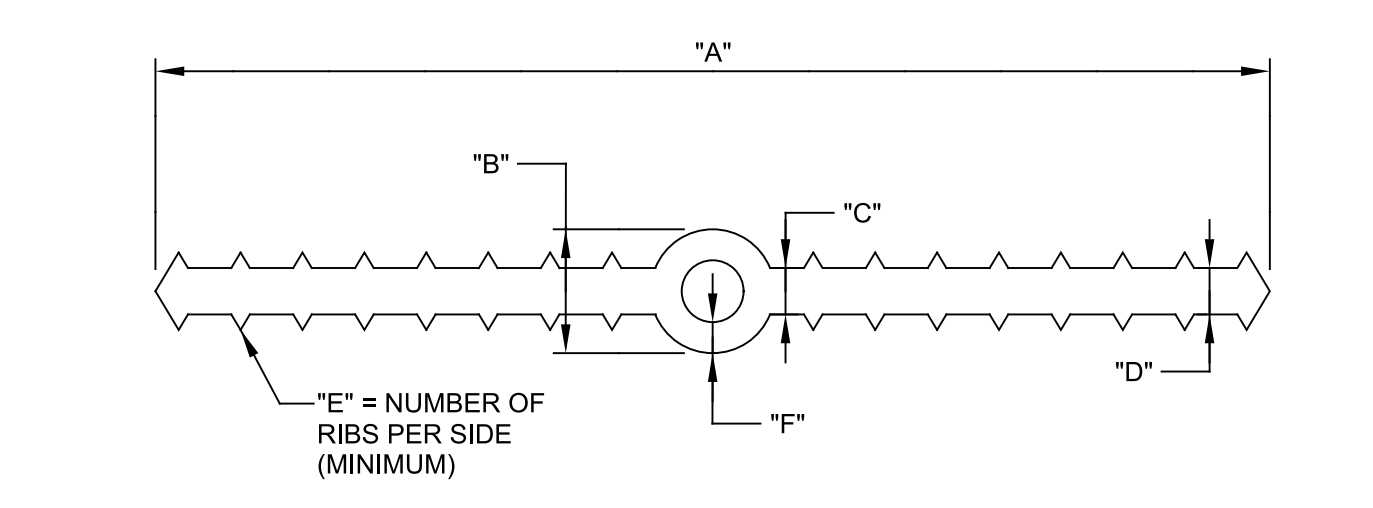
12. FORM EXPOSED CONCRETE CORNERS AND EDGES WITH 3/4" CHAMFER UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

TABLE 1: REINFORCING BAR LAP SPLICES: $f_c = 4000$ PSI, $F_y = 60,000$ PSI

BAR SIZE	MINIMUM COVER (BAR DIA)	MINIMUM CLEAR BAR SPACING (BAR DIA)	LAP SPlice LENGTH (INCHES)	
			TOP BARS	OTHER BARS
#4	MORE THAN 1	MORE THAN 2	32 *	25 *
	MORE THAN 2	MORE THAN 4	20	16
#5	MORE THAN 1	MORE THAN 2	40 *	31 *
	MORE THAN 2	MORE THAN 4	26	20
#6	MORE THAN 1	MORE THAN 2	48 *	37 *
	MORE THAN 2	MORE THAN 4	30	24
#7	MORE THAN 1	MORE THAN 2	70 *	54 *
	MORE THAN 2	MORE THAN 4	43	33
#8	MORE THAN 1	MORE THAN 2	81 *	62 *
	MORE THAN 2	MORE THAN 4	50	38
#9	MORE THAN 1	MORE THAN 2	90 *	70 *
	MORE THAN 2	MORE THAN 4	56	42
#10	MORE THAN 1	MORE THAN 2	104 *	81 *
	MORE THAN 2	MORE THAN 4	62	48
#11	MORE THAN 1	MORE THAN 2	114 *	88 *
	MORE THAN 2	MORE THAN 4	69	54

REINFORCING BAR LAP SPlice TABLE NOTES:
1. TABULATED SPlice LENGTHS ARE APPLICABLE ONLY WHEN BOTH REQUIREMENTS FOR MINIMUM COVER AND FOR MINIMUM CLEAR BAR SPACING ARE SATISFIED.
2. * = IF THE CLEAR BAR SPACING IS LESS THAN OR EQUAL TO TWO BAR DIAMETERS, OR THE COVER IS LESS THAN OR EQUAL TO ONE BAR DIAMETER, THE LAP SPlice LENGTH SHALL BE INCREASED BY 50 PERCENT.

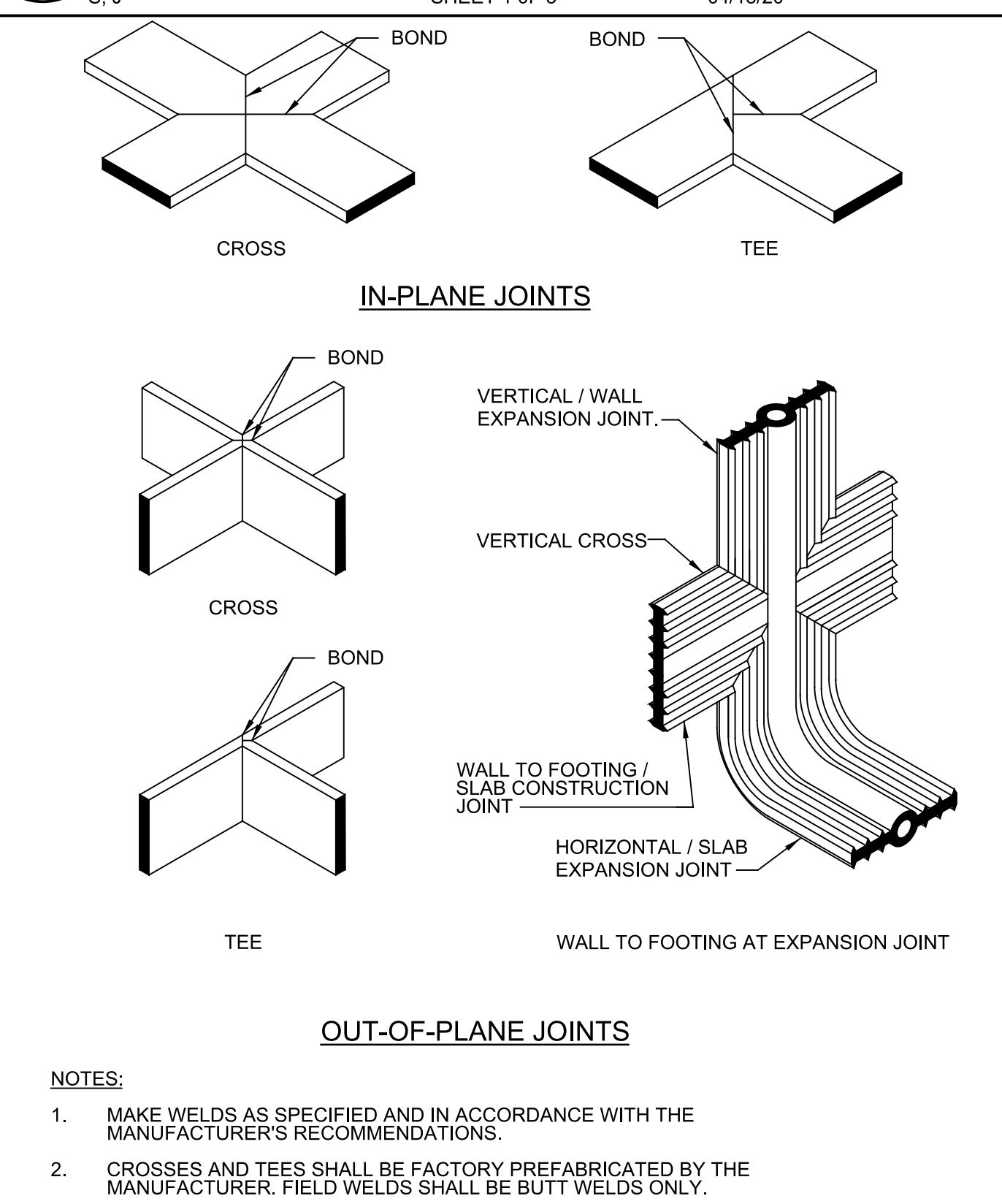
S101 REINFORCED CONCRETE NOTES
TYP
S, J SHEET 3 OF 3 04/13/20



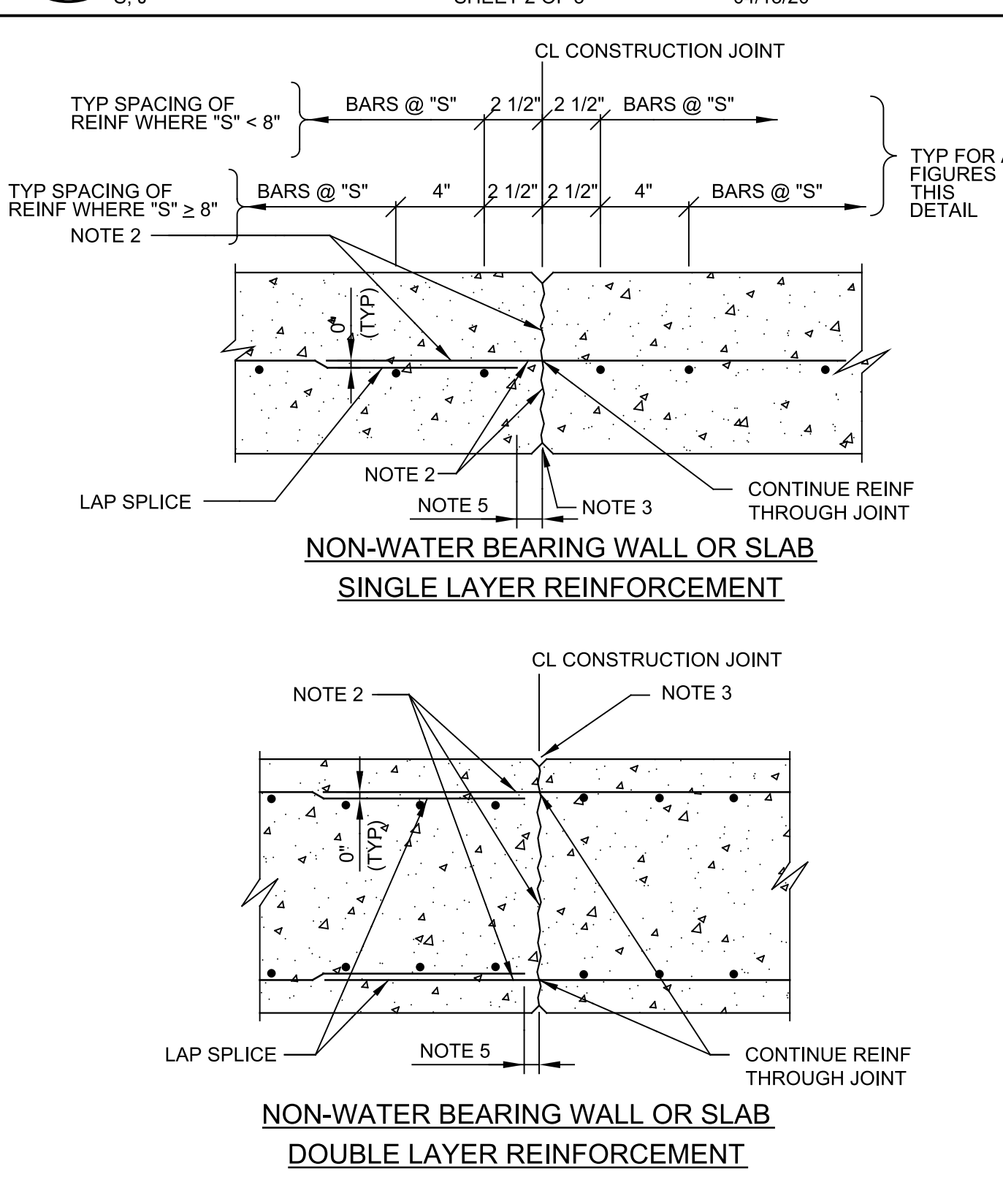
TYPE	"A"	"B"	"C"	"D"	"E"	"F"	APPLICATION
W/O CENTERBULB	6"	-	3/8"	3/8"	7	-	CONSTRUCTION AND CONTROL JOINTS

NOTES:
1. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
2. DIMENSIONS ARE MINIMUM, UNLESS OTHERWISE NOTED.

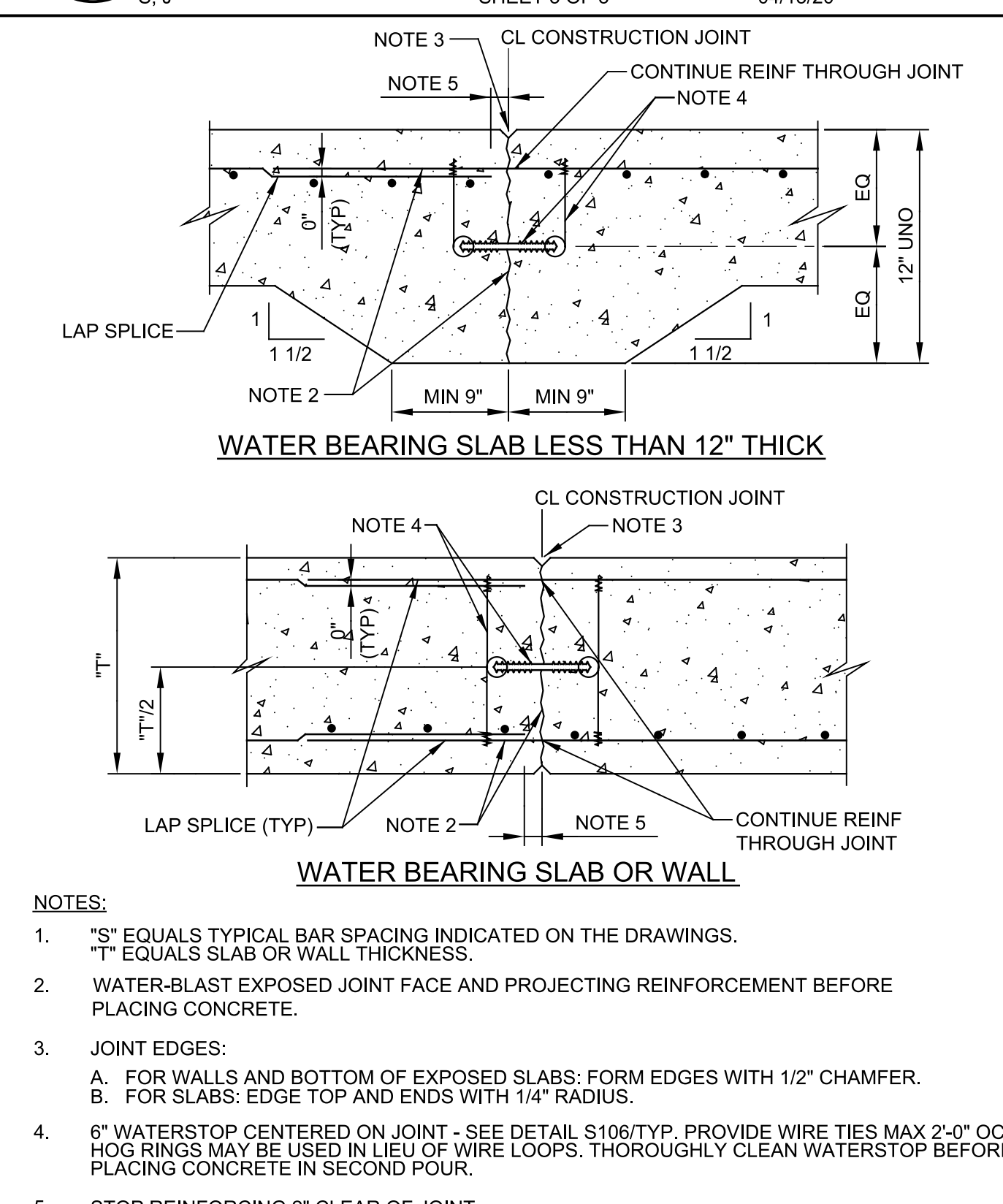
S106 PVC WATERSTOP SCHEDULE
TYP
R 02/21/20



S107 PREFABRICATED PVC WATERSTOP JOINTS
TYP
07/08/16



S110 CONSTRUCTION JOINT
TYP
S SHEET 1 OF 2 07/11/16



S110 CONSTRUCTION JOINT
TYP
S SHEET 2 OF 2 07/11/16

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
DRAWN
CE
CHECKED
JAD
DATE
JANUARY 2023

REGISTERED PROFESSIONAL ENGINEER
ERIC J. WILKINS
No. 6370
STRUCTURAL
STATE OF CALIFORNIA

Digitally signed by Eric J. Wilkins
Contact Info: Carollo Engineers, Inc.
Date: 2023.01.27 09:58:02 -0800



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
TYPICALS
TYPICAL STRUCTURAL DETAILS

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

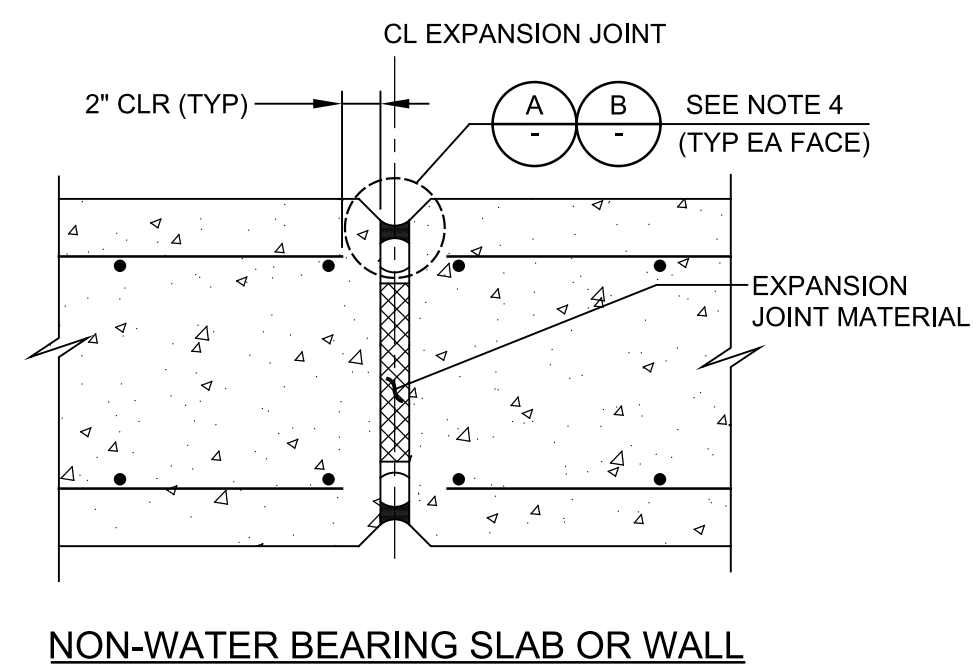
JOB NO.
7310L.10
DRAWING NO.
TS01C
SHEET NO.
37 OF 130

Plot Date: 03-APR-2023 9:39:38 AM

User: svcPW

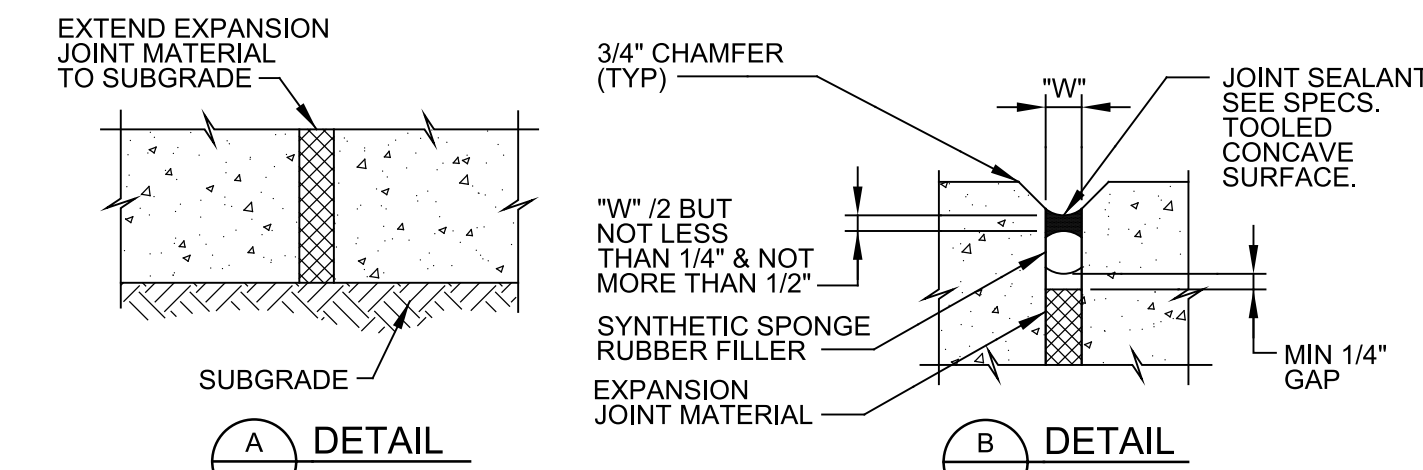
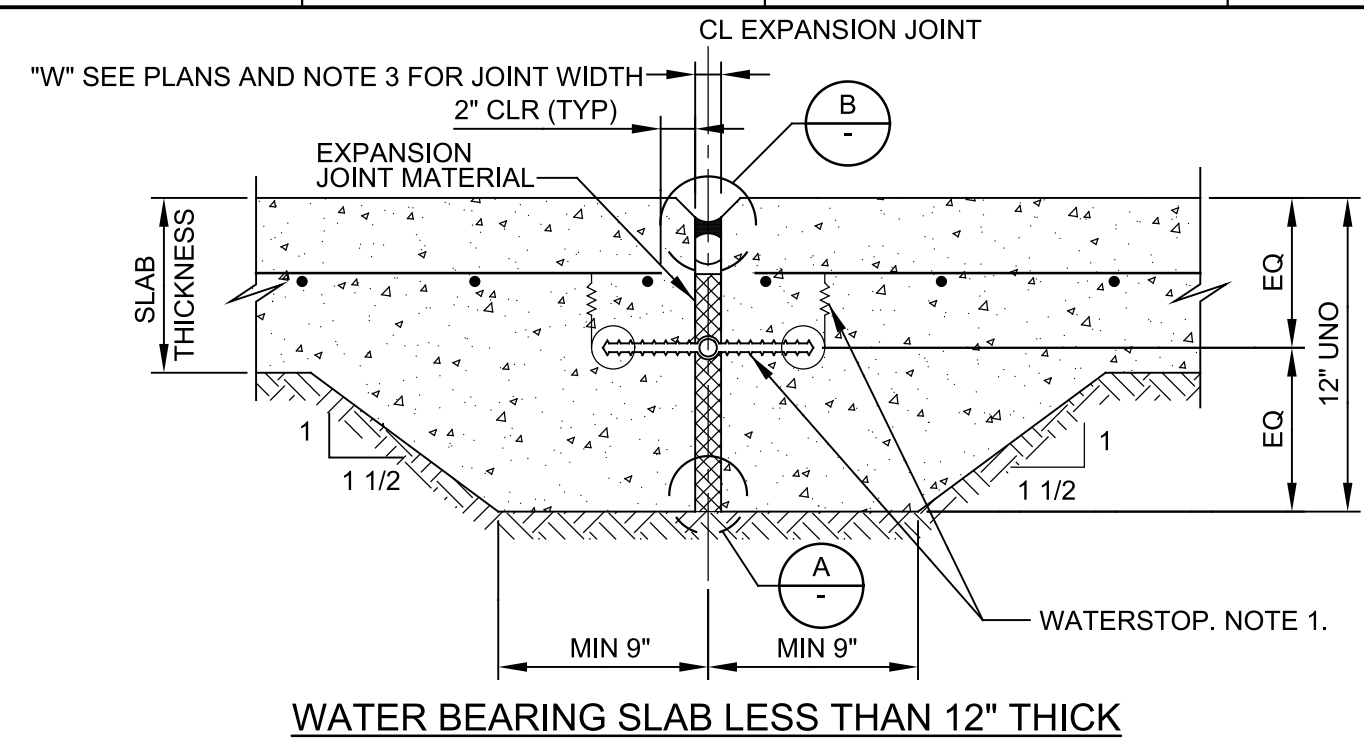
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LAST SAVED BY: mvelch



S130 EXPANSION JOINT
TYP

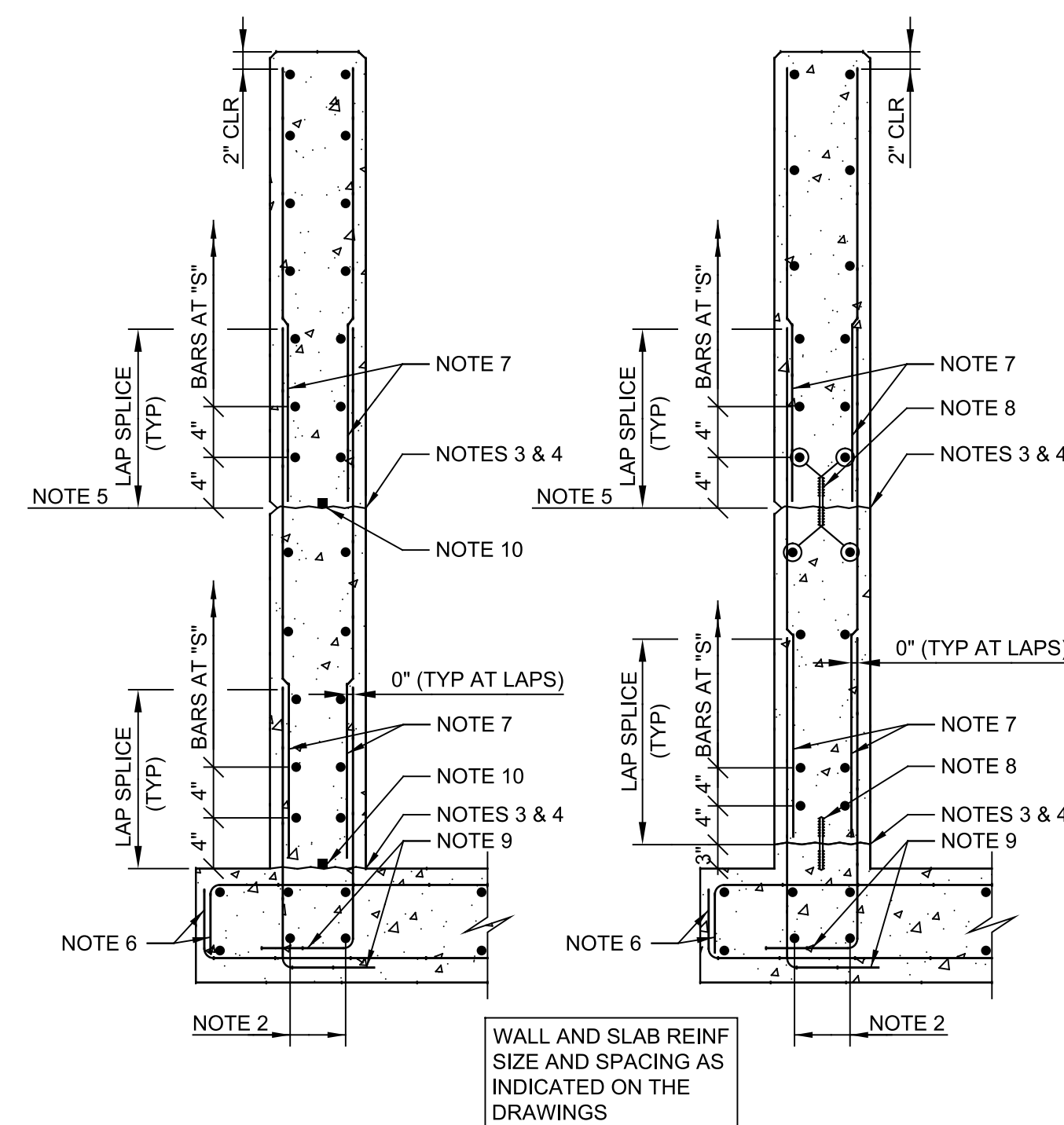
S, J SHEET 1 OF 2 04/13/20



- NOTES:**
- 9" WATERSTOP WITH CENTER BULB CENTERED ON JOINT - SEE DETAIL S106/TYP. PROVIDE WIRE TIES MAX 2'-0" OC. HOG RINGS MAY BE USED IN LIEU OF WIRE LOOPS. THOROUGHLY CLEAN WATERSTOP BEFORE PLACING CONCRETE IN SECOND POUR.
 - JOINT EDGES:
A. FOR WALLS AND BOTTOM OF EXPOSED SLABS: FORM EDGES WITH 3/4" CHAMFER.
B. FOR SLABS: EDGE TOP AND ENDS WITH 1/4" RADIUS.
 - "W"=1" UNLESS OTHERWISE INDICATED ON PLANS. (MIN JOINT WIDTH = 3/8". MAX JOINT WIDTH = 2")
 - USE DETAIL A ONLY AT SOIL SIDE OF SLABS ON GRADE. USE DETAIL B AT ALL OTHER LOCATIONS.

S130 EXPANSION JOINT
TYP

SHEET 2 OF 2 07/22/16



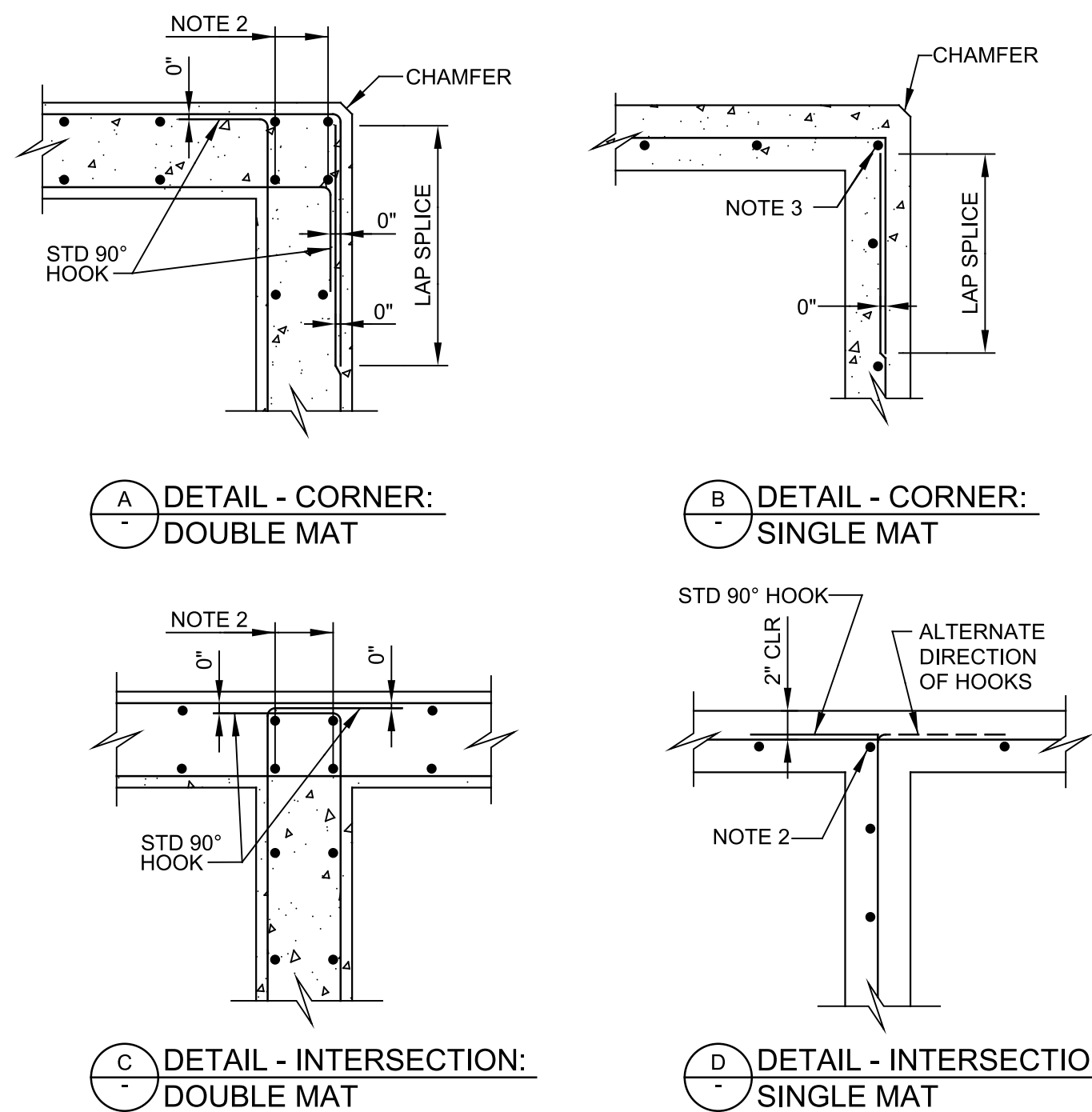
S140 CONSTRUCTION JOINT - WALLS
TYP

RN SHEET 1 OF 2 03/12/19

- NOTES:**
- "S" EQUALS TYPICAL BAR SPACING INDICATED ON THE DRAWINGS.
 - PLACE AND ALIGN BARS BEFORE PLACING DOWELS. BAR SIZE TO MATCH SLAB BARS.
 - WATER-BLAST JOINT FACE AND PROJECTING REINFORCEMENT BEFORE PLACING CONCRETE. (SEE SPECIFICATIONS.)
 - PLACE CEMENT GROUT OVER JOINT FACE IMMEDIATELY BEFORE PLACING CONCRETE.
 - CONSTRUCTION JOINT WHERE INDICATED ON THE DRAWINGS. WHERE WALL SURFACE IS EXPOSED TO VIEW IN THE FINISHED WORK, PROVIDE V-GROOVE PER DETAIL S162/TYP.
 - STANDARD 90° HOOK WHERE INDICATED ON THE DRAWINGS. (ALTERNATE: PROVIDE 180° HOOK WHERE REQUIRED BY SLAB THICKNESS.)
 - DOWELS: SAME SIZE AND SPACING AS VERTICAL WALL BARS, UNLESS OTHERWISE NOTED.
 - 6" PVC WATERSTOP CENTERED VERTICALLY ON JOINT. PROVIDE WIRE TIES MAX 2'-0" OC. HOG RINGS MAY BE USED IN LIEU OF WIRE LOOPS. THOROUGHLY CLEAN WATERSTOP BEFORE PLACING CONCRETE.
 - STANDARD 90° HOOK UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - WHERE DRAWINGS INDICATE "W/ STRIP WSTP" PROVIDE LOW EXPANSION HYDROPHILIC WATERSTOP AT TOP SURFACE OF JOINT AND CENTERED BETWEEN VERTICAL BARS.

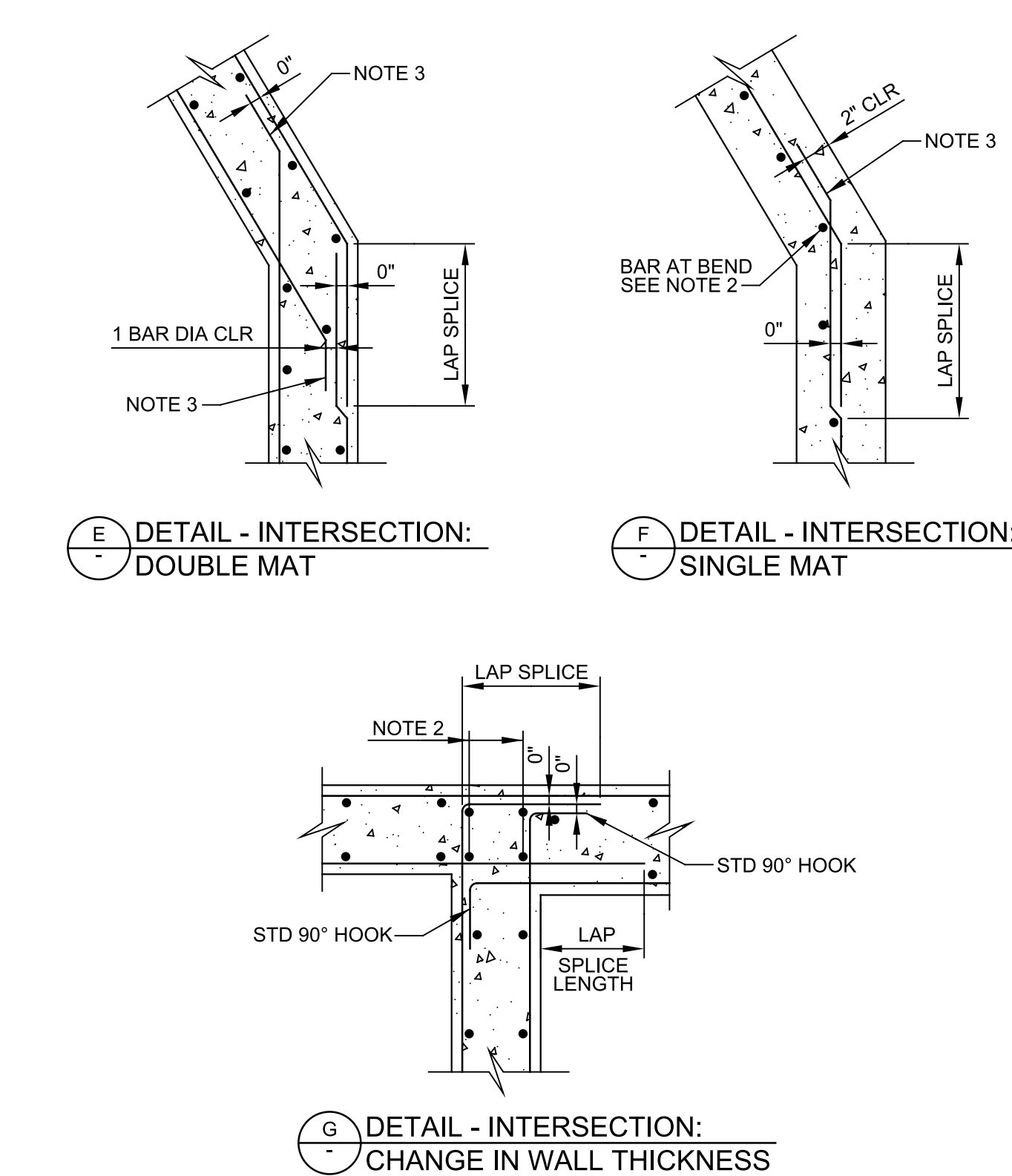
S140 CONSTRUCTION JOINT - WALLS
TYP

S, N SHEET 2 OF 2 03/12/19



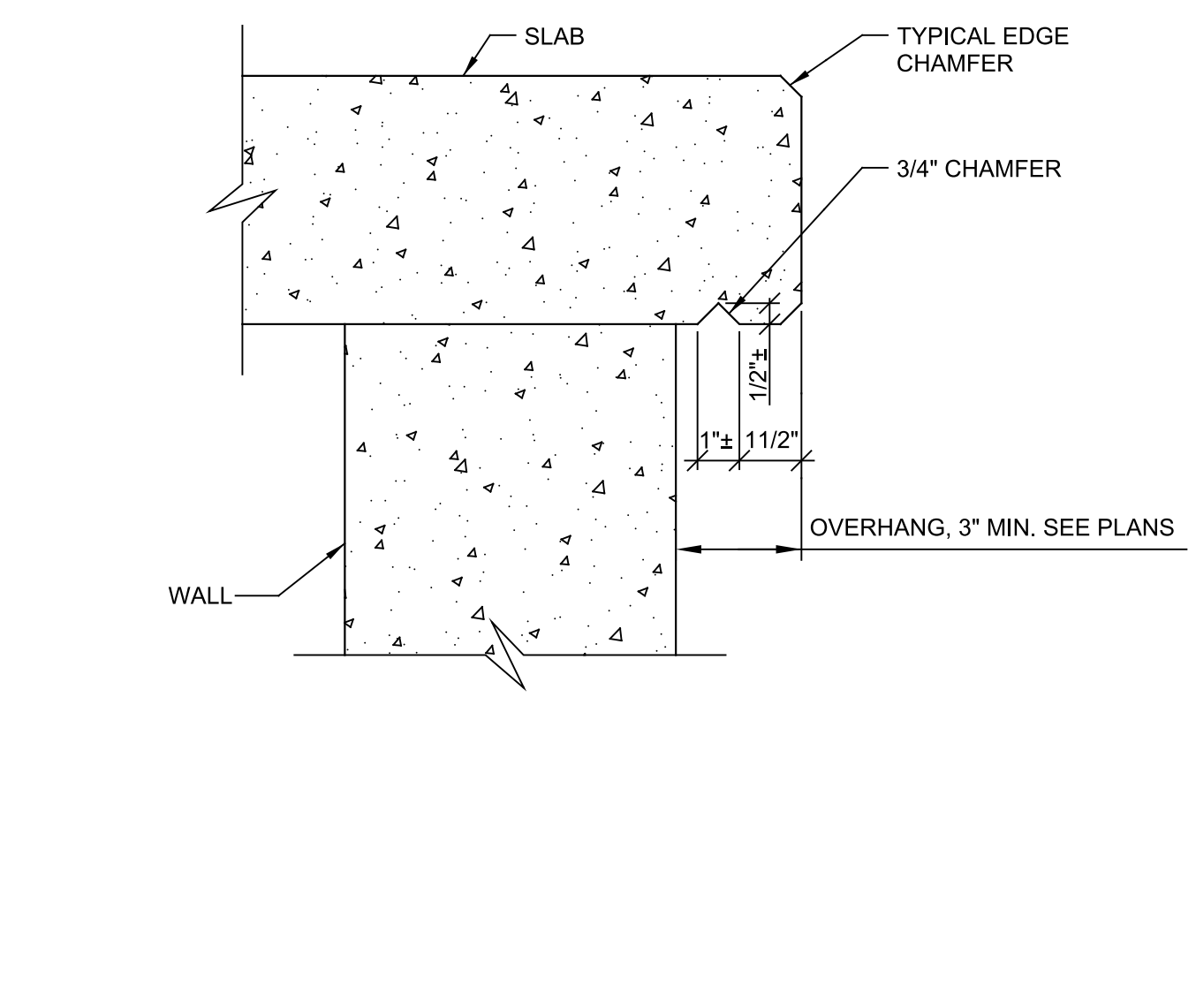
S144 WALL REINFORCEMENT AT CORNERS & INTERSECTIONS
TYP

S SHEET 1 OF 2 05/31/16



S144 WALL REINFORCEMENT AT CORNERS & INTERSECTIONS
TYP

S SHEET 2 OF 2 05/31/16

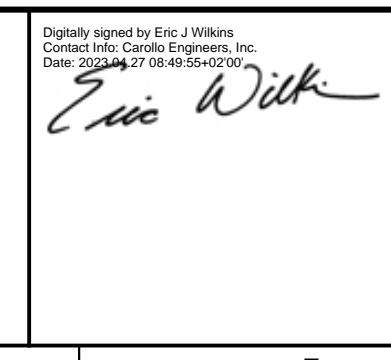


S160 DRIP GROOVE
TYP

07/21/16

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
EJW
DRAWN
CE
CHECKED
JAD
DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
Contact Info: Carollo Engineers, Inc.
Date: 2023.01.07 08:48:00-0800

Eric Wilkins



CITY OF PETALUMA
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TYPICALS
TYPICAL STRUCTURAL DETAILS

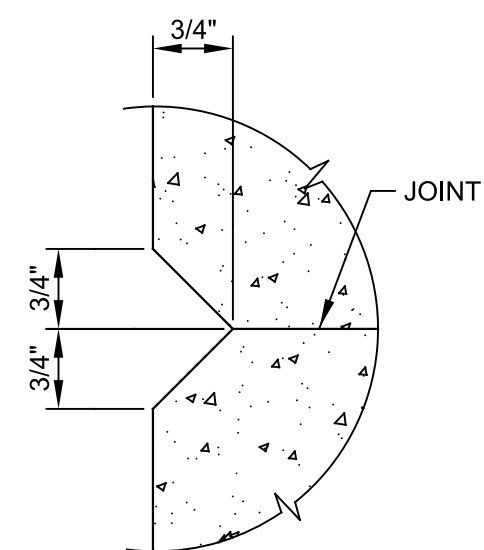
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. TS02C
	SHEET NO. 38 OF 130

Plot Date: 03-APR-2023 9:40:57 AM

User: svcPW

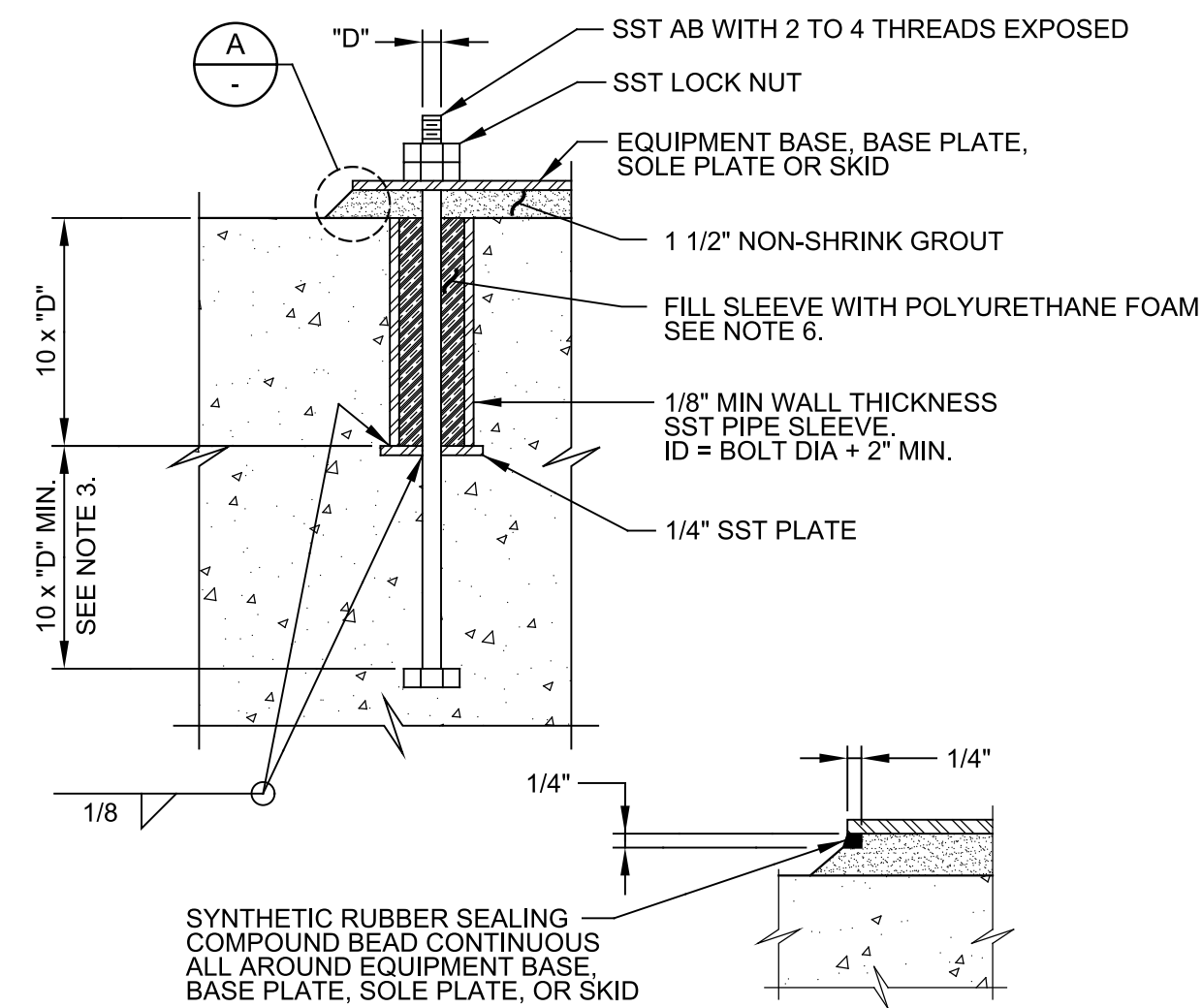
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LAST SAVED BY: iweilch



S162 V-GROOVE JOINT
TYP

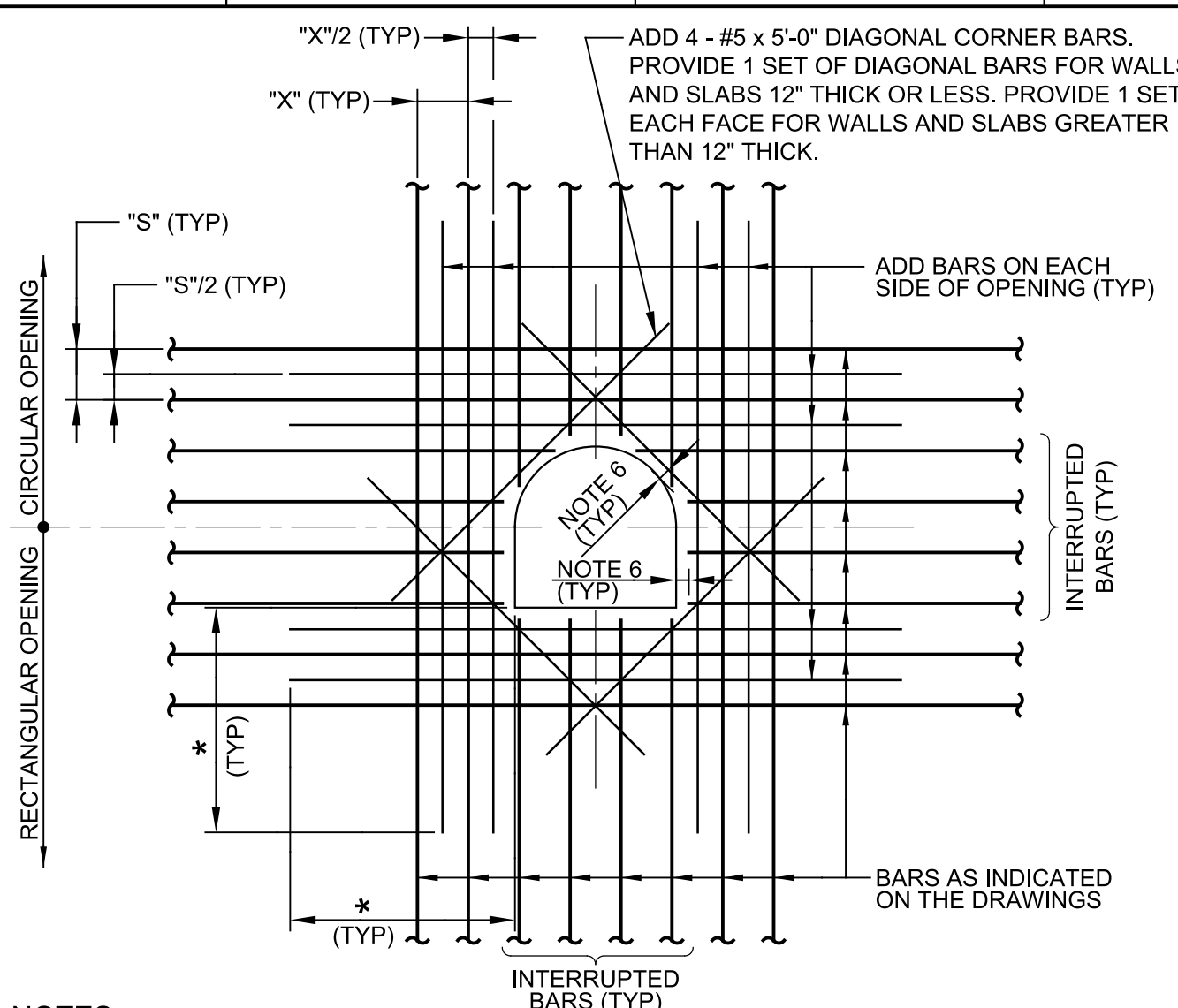
07/21/16



- NOTES:**
- "D" = DIAMETER OF ANCHOR BOLT.
 - ANCHOR BOLT DIAMETER AS INDICATED ON THE DRAWINGS. IF NOT INDICATED ON THE DRAWINGS, THE ANCHOR BOLT SIZE SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
 - WHERE CONCRETE SLAB OR BEAM THICKNESS WILL NOT ACCOMMODATE THE ANCHOR BOLT, PROVIDE EXTRA THICKNESS OF SLAB OR BEAM.
 - PREFABRICATED PLASTIC ANCHOR BOLT SLEEVE OPTIONAL.
 - DO NOT USE ALL THREAD RODS AS A SUBSTITUTE FOR BOLTS WITH A BOLT HEAD. SMOOTH RODS THREADED AT THE ENDS MAY BE USED IF ACCEPTABLE TO THE ENGINEER. DO NOT WELD NUTS TO THE THREADED RODS.
 - COMPLETELY REMOVE ANY POLYURETHANE FOAM FROM CONCRETE, EQUIPMENT BASE, BASE PLATE, SOLE PLATE, OR SKID, AND ANCHOR BOLTS ABOVE TOP OF CONCRETE.
 - DO NOT USE LEVELING NUTS TO SUPPORT AND LEVEL EQUIPMENT BASE, BASE PLATE, SOLE PLATE, OR SKID.

S310 ANCHOR BOLT - EMBED AND SLEEVE
TYP

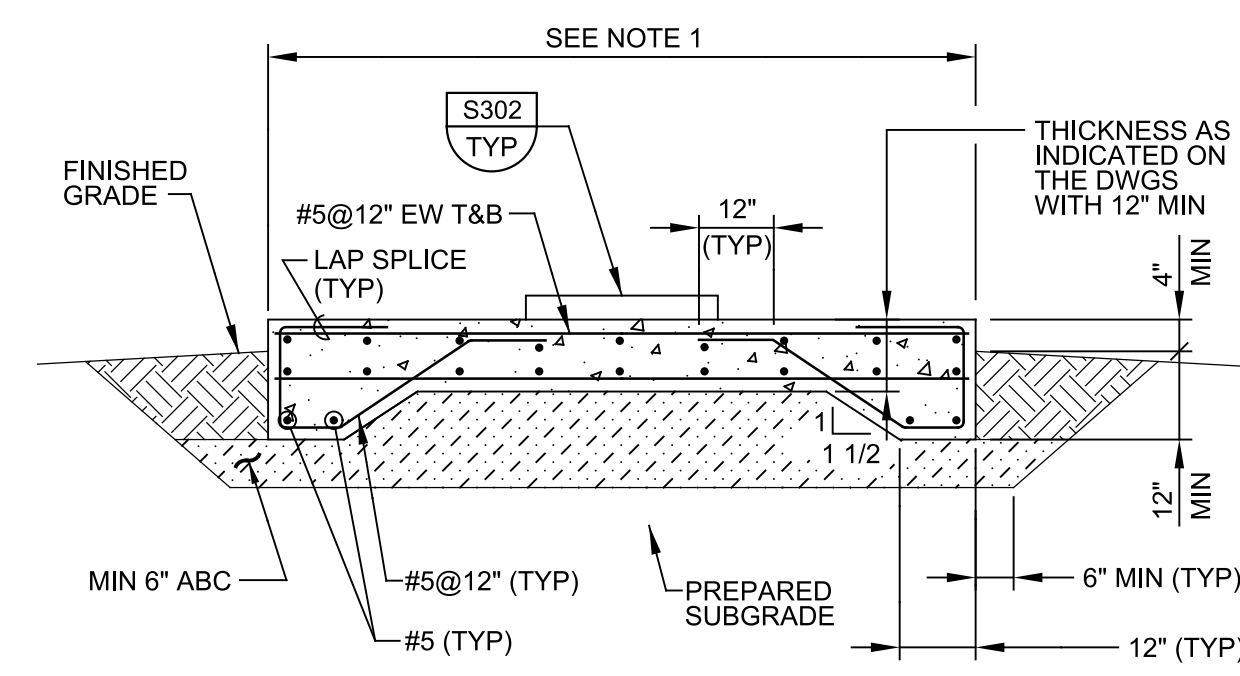
05/20/15



- NOTES:**
- AREA OF ADD BARS AT EACH EDGE OF OPENING IN EACH DIRECTION SHALL BE EQUAL TO OR GREATER THAN 1/2 THE CROSS SECTIONAL AREA OF THE INTERRUPTED BARS.
 - PROVIDE STANDARD ACI HOOKS ON BARS IF STRAIGHT EXTENSION PAST THE OPENING, CANNOT BE ACHIEVED.
 - PLACE ADD BARS IN SAME PLANES AS INTERRUPTED REINFORCING.
 - PLACE #5 DIAGONAL BARS ON INSIDE OF INTERRUPTED REINFORCING.
 - * DIMENSION EQUALS OPENING DIMENSION MEASURED PERPENDICULAR TO ADD BARS PLUS LAP SPLICE LENGTH.
 - 2" CLEAR TO CONCRETE OPENINGS OR OUTSIDE FACE OF PIPES AND PIPE SLEEVES. DO NOT OVERCUT REINFORCEMENT FOR EASIER PLACEMENT OF WEEP RINGS AND FLANGES.
 - ADD BARS ARE NOT REQUIRED AT SIDES OF OPENINGS PARALLEL TO AND WITHIN 6" OF A WALL OR BEAM.

S180 ADDITIONAL REINFORCING AT OPENINGS IN CONCRETE SLABS OR WALLS
TYP

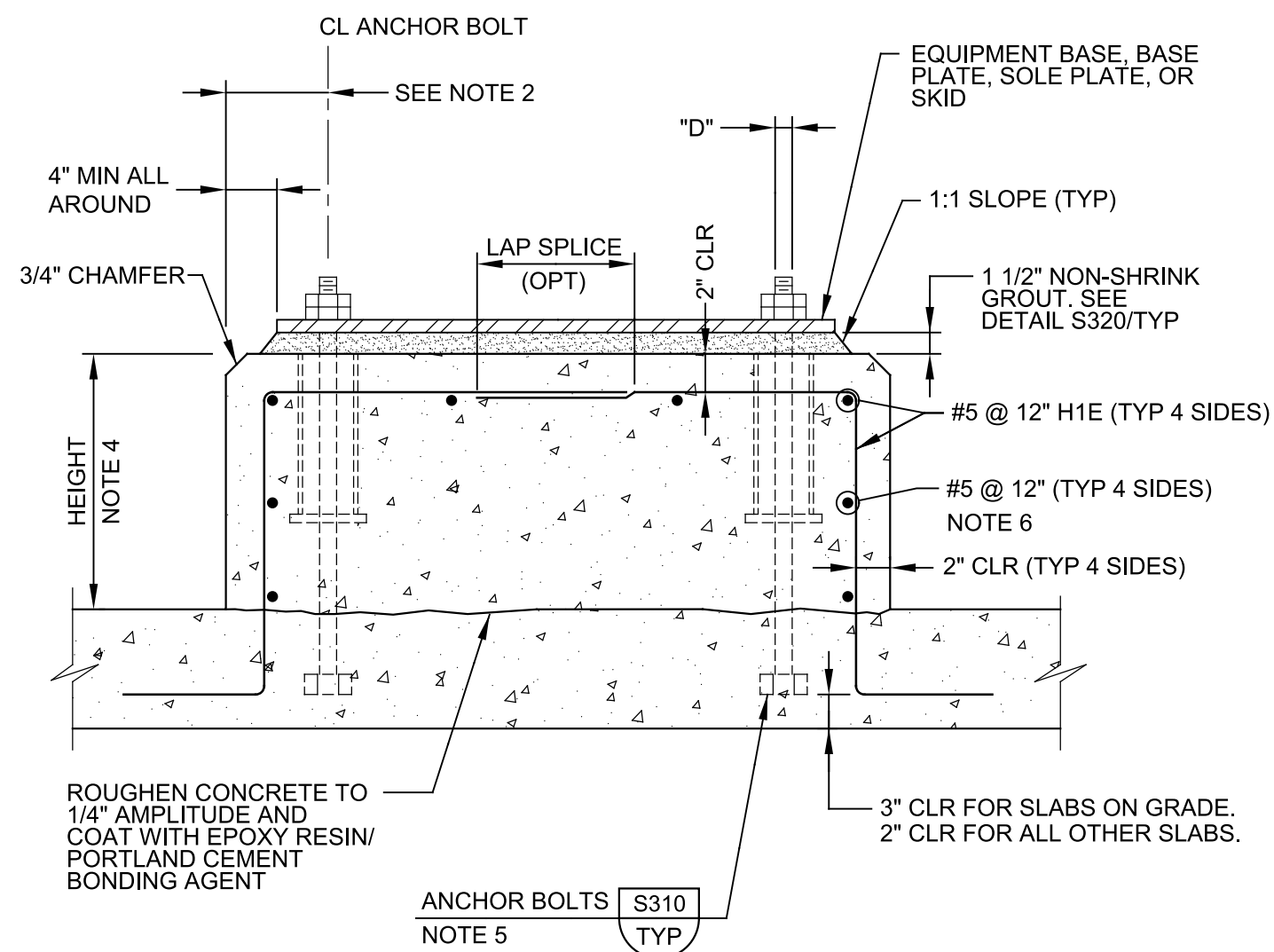
03/12/19



- NOTE:**
- DIMENSIONS AS REQUIRED TO SUIT EQUIPMENT OR AS INDICATED ON THE DRAWINGS.

S300 EQUIPMENT SLAB
TYP

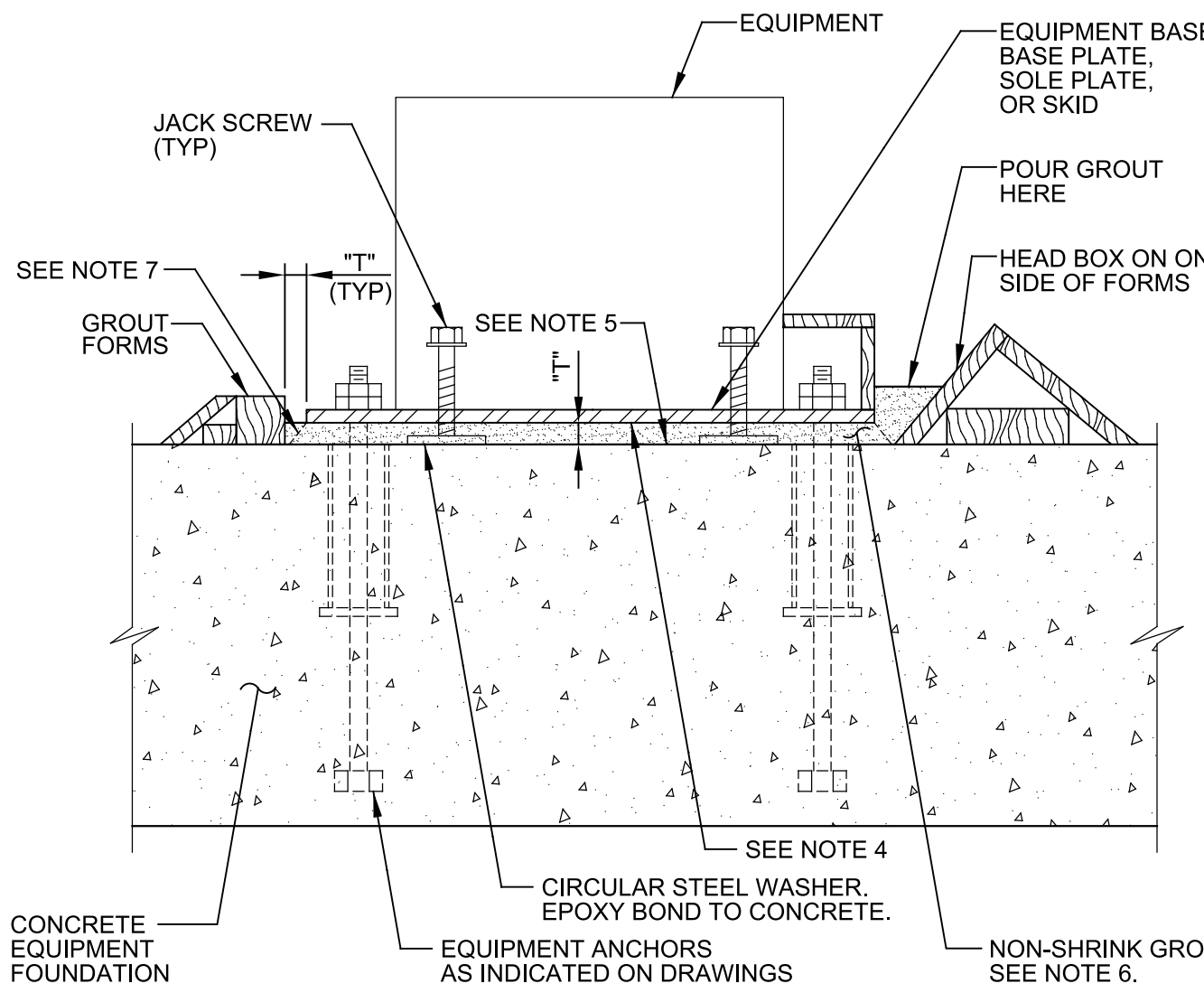
04/09/19



- NOTES:**
- "D" = DIAMETER OF ANCHOR BOLT.
 - THE EDGE DISTANCE ON THE ANCHOR BOLTS SHALL NOT BE LESS THAN 6" OR 8" x "D".
 - PAD DIMENSIONS AND ANCHOR BOLT SIZE SHALL CONFORM TO EQUIPMENT MANUFACTURER'S REQUIREMENTS.
 - HEIGHT TO SUIT EQUIPMENT FURNISHED OR AS INDICATED ON THE DRAWINGS.
 - WHERE CONCRETE SLAB OR BEAM THICKNESS WILL NOT ACCOMMODATE THE ANCHOR BOLT, PROVIDE EXTRA THICKNESS FOR SLAB OR BEAM.
 - PROVIDE HOOPS OR CORNERS PER DETAIL S144/TYP.

S302 EQUIPMENT BASE
TYP

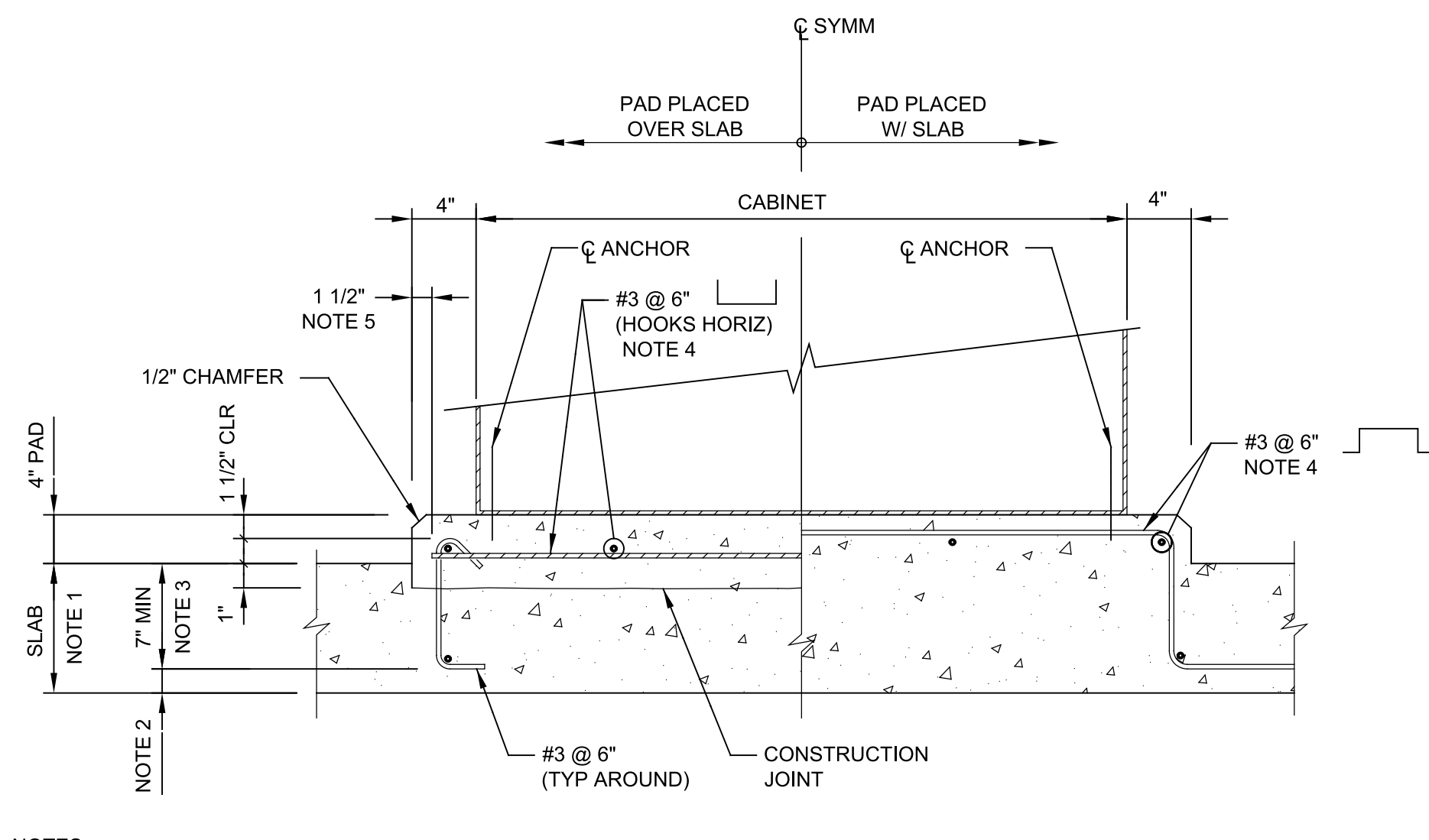
02/21/2020



- NOTES:**
- "T" = EQUALS GROUT THICKNESS INDICATED ON THE DRAWING. 1" MINIMUM GROUT THICKNESS.
 - FILL ANCHOR SLEEVES WITH POLYURETHANE FOAM BEFORE GROUTING.
 - DO NOT USE LEVELING NUTS ON EQUIPMENT ANCHORS.
 - PREPARE SURFACE OF EQUIPMENT BASES, BASE PLATES, SOLE PLATES, AND SKIDS IN CONTACT WITH GROUT AS SPECIFIED IN SECTION 15050.
 - PREPARE SURFACES OF CONCRETE FOUNDATION IN CONTACT WITH GROUT AS SPECIFIED IN SECTION 15050.
 - PLACE NON-SHRINK GROUT AS SPECIFIED IN SECTION 15050.
 - AFTER GROUT SETS, TRIM GROUT TO 45 DEGREE CHAMFER.

S320 EQUIPMENT GROUTING WITH NON-SHRINK GROUT
TYP

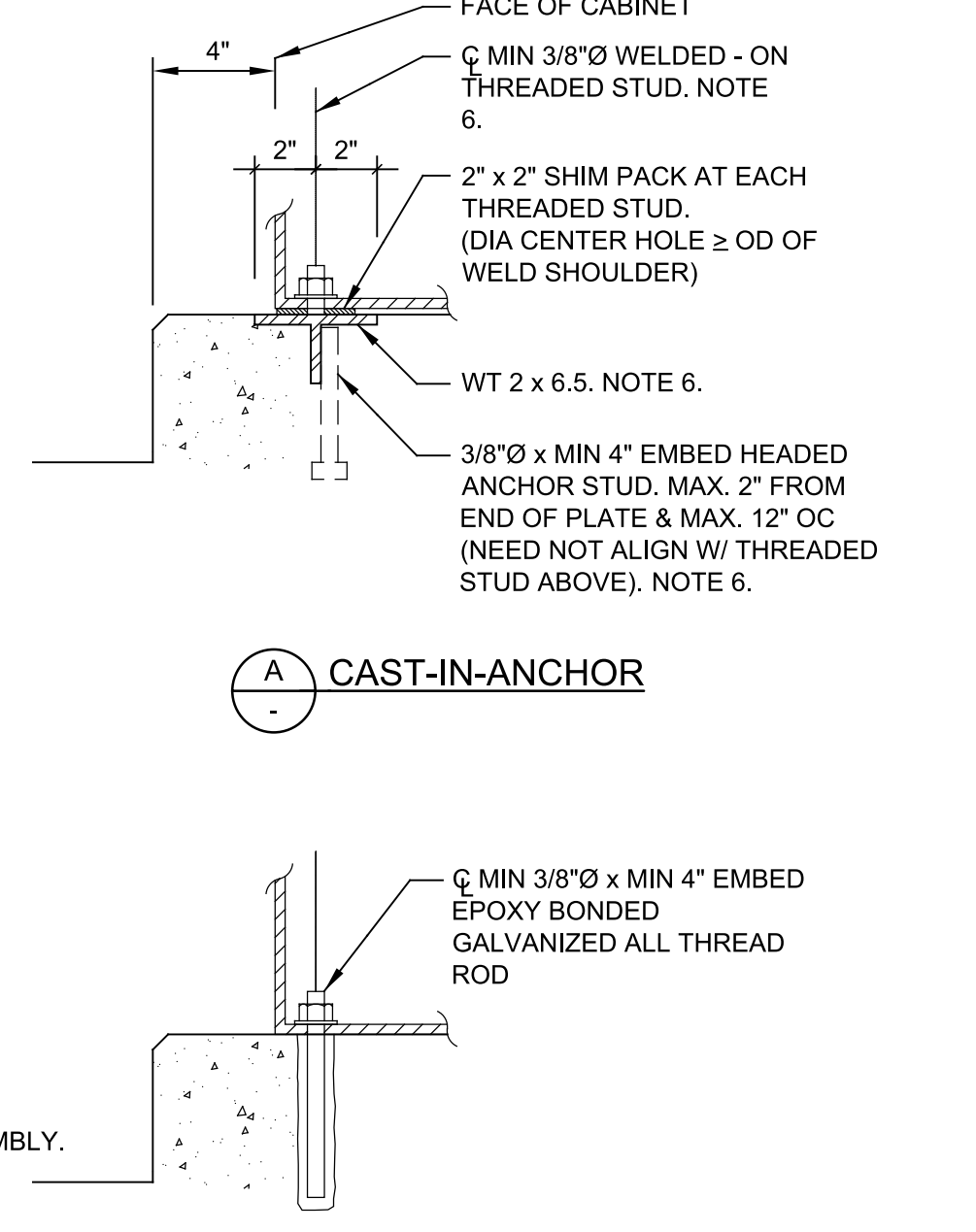
04/13/20



- NOTES:**
- SEE STRUCTURAL DRAWINGS FOR THICKNESS OF SLAB BELOW PAD. SLAB REINFORCEMENT NOT SHOWN.
 - SEE S101/ TYP FOR MIN CONCRETE COVER REQUIREMENTS.
 - CONTACT ENGINEER FOR INSTRUCTIONS WHERE HOOK EMBEDMENT IS LESS THAN DIMENSION SHOWN.
 - FOR EQUIPMENT WITH CONDUIT WINDOWS BELOW, ADJUST BAR LOCATIONS TO FIT BETWEEN WINDOWS.
 - LOCATE VERTICAL EDGE OF PAD AND VERTICAL FACE OF #3s USING VERTICAL 2x FORM DURING SLAB PLACEMENT.
 - HOT DIP GALVANIZE WT AND HEADED ANCHOR STUD ASSEMBLY. TOUCH UP GALVANIZING AFTER FIELD WELDING THREADED STUDS.

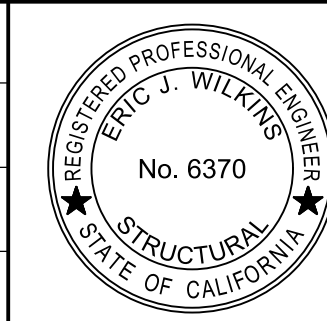
S350 ELECTRICAL EQUIPMENT HOUSEKEEPING PAD
TYP

02/21/14



S330 CAST-IN-ANCHOR
S330 POST-INSTALLED ANCHOR

DESIGNED	EJW
DRAWN	CE
CHECKED	JAD
DATE	JANUARY 2023



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
TYPICALS
TYPICAL STRUCTURAL DETAILS

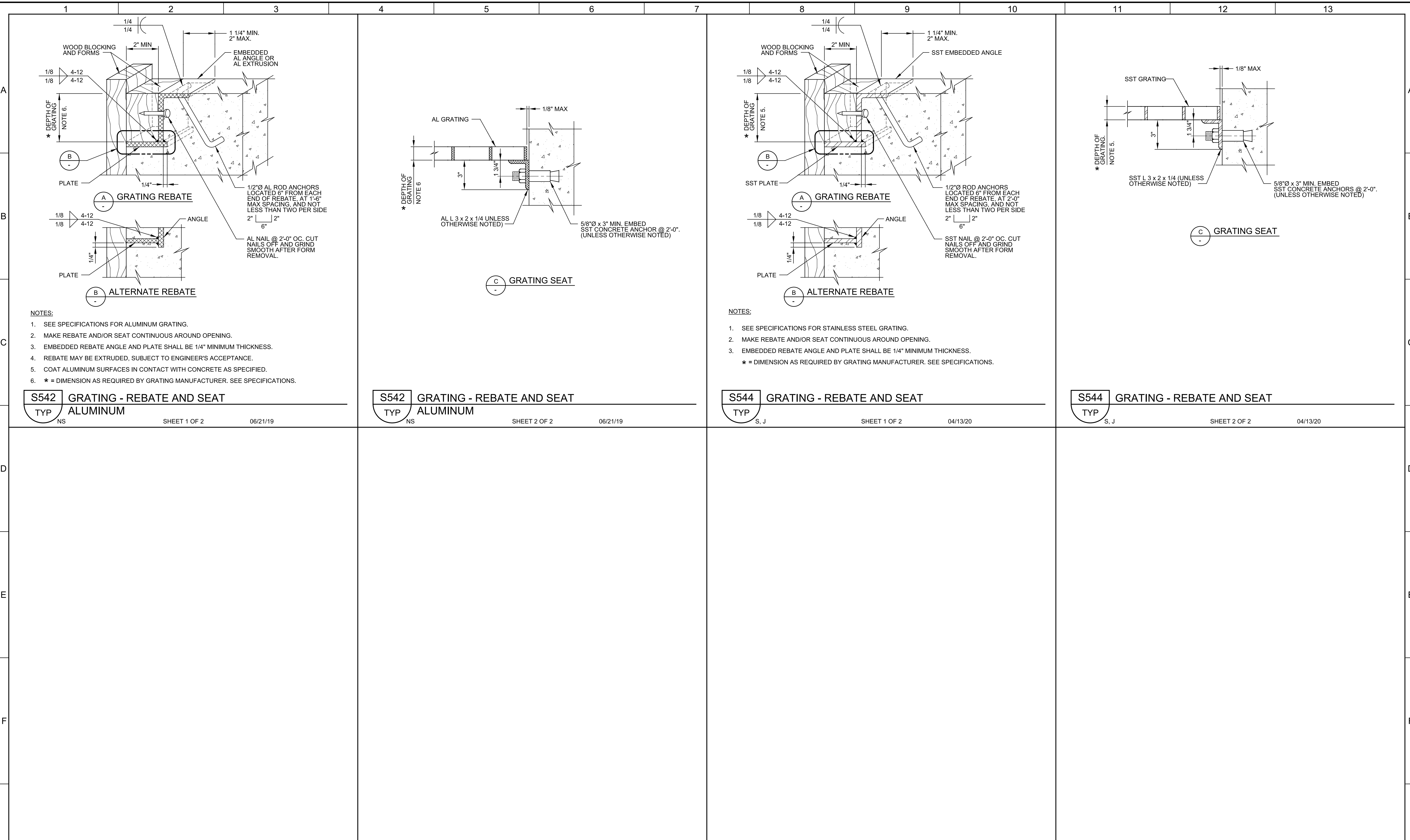
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0 1"	SHEET NO. 39 OF 130
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Plot Date: 03-APR-2023 9:41:35 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: iweich



- NOTES:
1. SEE SPECIFICATIONS FOR ALUMINUM GRATING.
 2. MAKE REBATE AND/OR SEAT CONTINUOUS AROUND OPENING.
 3. EMBEDDED REBATE ANGLE AND PLATE SHALL BE 1/4" MINIMUM THICKNESS.
 4. REBATE MAY BE EXTRUDED, SUBJECT TO ENGINEER'S ACCEPTANCE.
 5. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE AS SPECIFIED.
 6. * = DIMENSION AS REQUIRED BY GRATING MANUFACTURER. SEE SPECIFICATIONS.

S542 GRATING - REBATE AND SEAT
 TYP ALUMINUM
 NS SHEET 1 OF 2 06/21/19

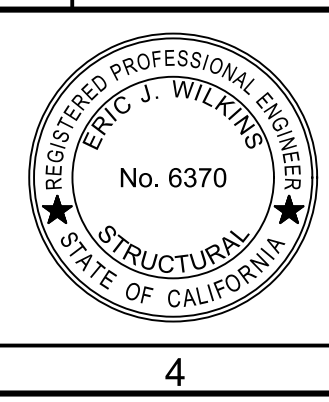
S542 GRATING - REBATE AND SEAT
 TYP ALUMINUM
 NS SHEET 2 OF 2 06/21/19

S544 GRATING - REBATE AND SEAT
 TYP S, J SHEET 1 OF 2 04/13/20

S544 GRATING - REBATE AND SEAT
 TYP S, J SHEET 2 OF 2 04/13/20

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
EJW
 DRAWN
CE
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.13 09:49:10-0700

Eric Wilkins



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 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 TYPICALS
 TYPICAL STRUCTURAL DETAILS

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

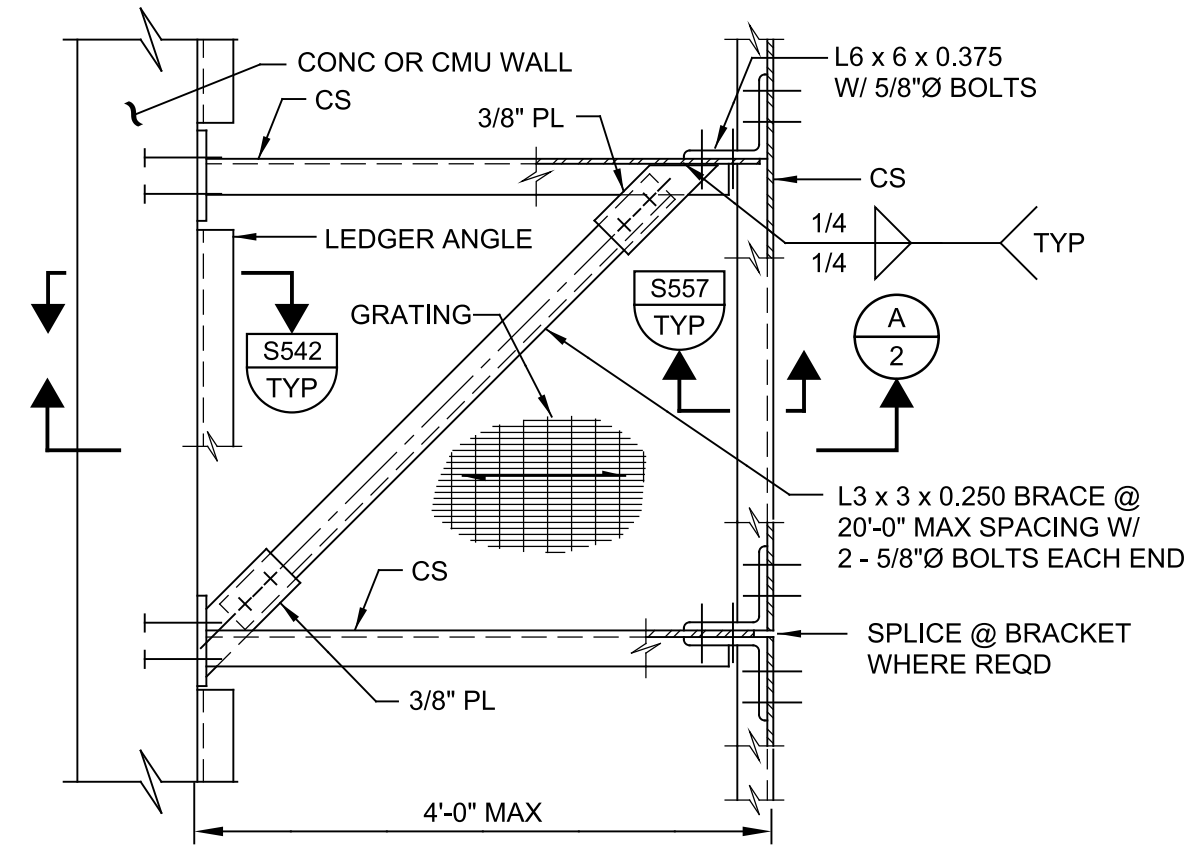
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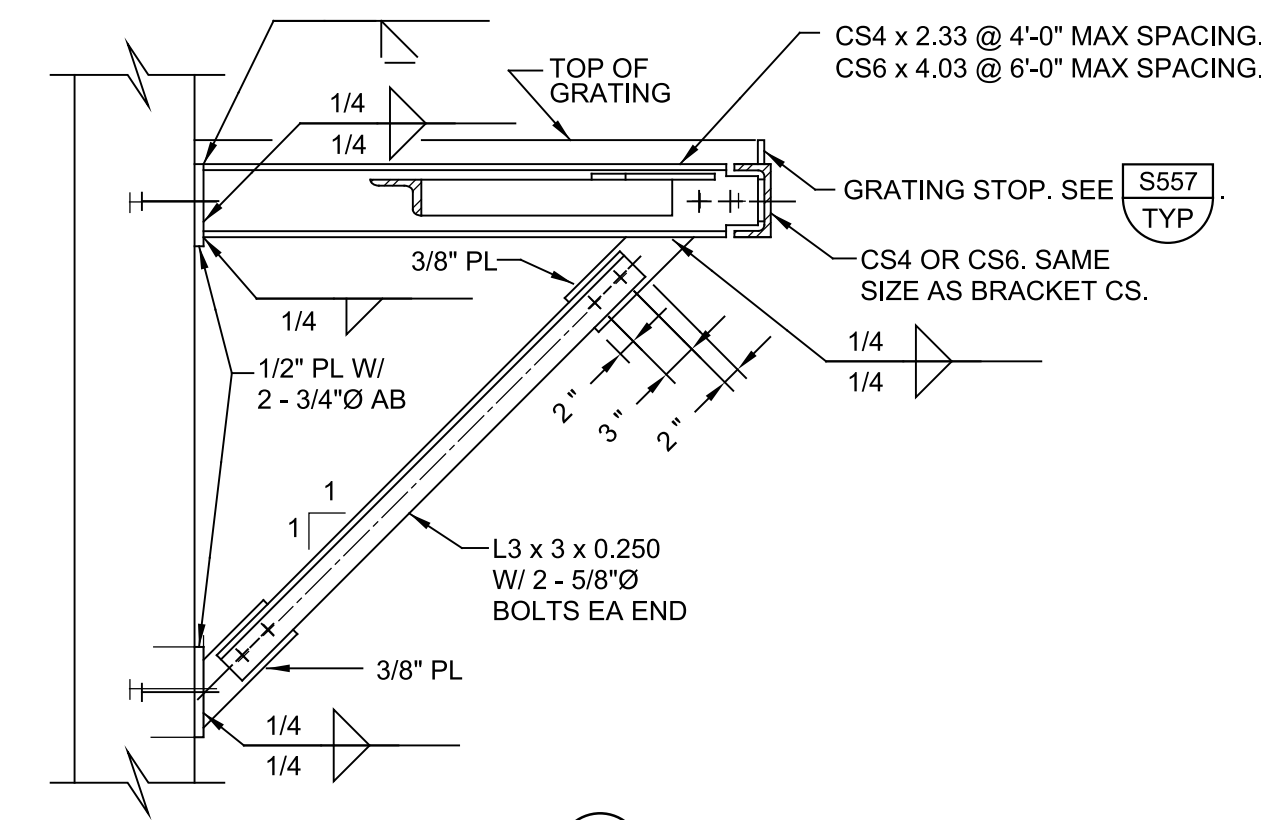
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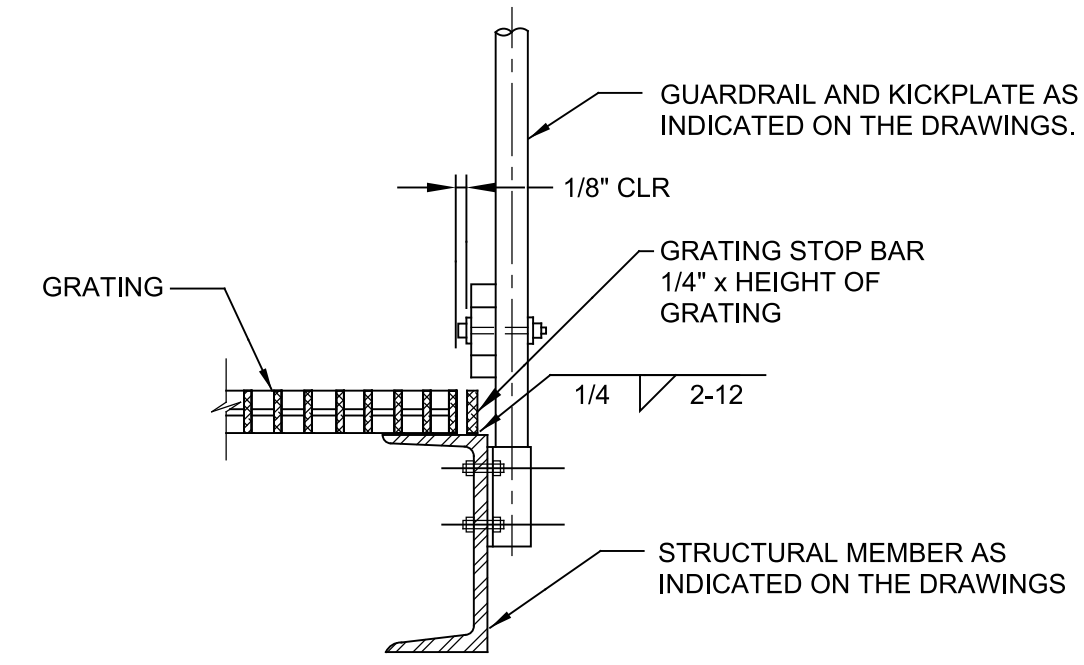


PLAN

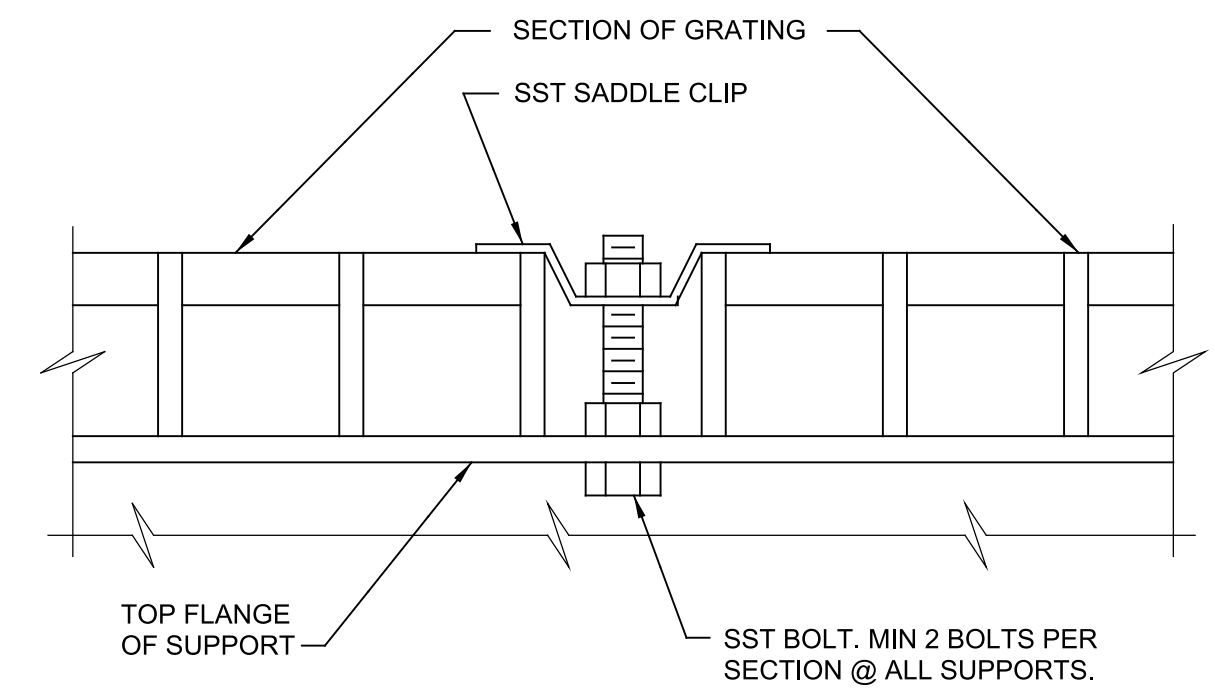


SECTION

- NOTES:
- BOLTS SHALL BE SST.
 - PLATES AND SHAPES SHALL BE ALUMINUM.
 - COAT AL SURFACES IN CONTACT WITH CONCRETE AS SPECIFIED.
 - LIVE LOAD = 100 POUNDS PER SQUARE FOOT.



- NOTES:
- GRATING STOP SHALL BE INSTALLED ON ALL GRATING PLATFORMS AND LANDINGS SHALL BE CONTINUOUS ON ALL SIDES OF PLATFORMS NOT OTHERWISE COVERED BY A REBATE, SEAT, OR OTHER SIMILAR DETAIL. GRATING STOPS SHALL BE DISCONTINUOUS AT STAIRS BUT SHALL SERVE TO HOLD LANDING PANEL AT STAIRWAYS IN PLACE.
 - GRATING STOP SHALL BE OF THE SAME MATERIAL AS THE STRUCTURAL MEMBER.



- NOTES:
- GRATING FASTENERS SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS.
 - GRATING FASTENERS SHALL BE INSTALLED AT EACH CORNER OF EACH PANEL AND AT SPACING NOT TO EXCEED 8'-0\"/>

S554
TYP GRATING - ALUMINUM
SUPPORT BRACKET

SHEET 1 OF 2 06/21/19

S554
TYP GRATING - ALUMINUM
SUPPORT BRACKET

SHEET 2 OF 2 06/21/19

S557
TYP GRATING - EDGE STOP
(ALL MATERIALS)

06/21/19

S559
TYP GRATING - FASTENERS
(ALL MATERIALS)

06/21/19

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
DRAWN
CE
CHECKED
JAD
DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.27 08:49:30-0700

Eric Wilkins



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
TYPICALS
TYPICAL STRUCTURAL DETAILS

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

JOB NO.
7310L.10
DRAWING NO.
TS05C
SHEET NO.
41 OF 130

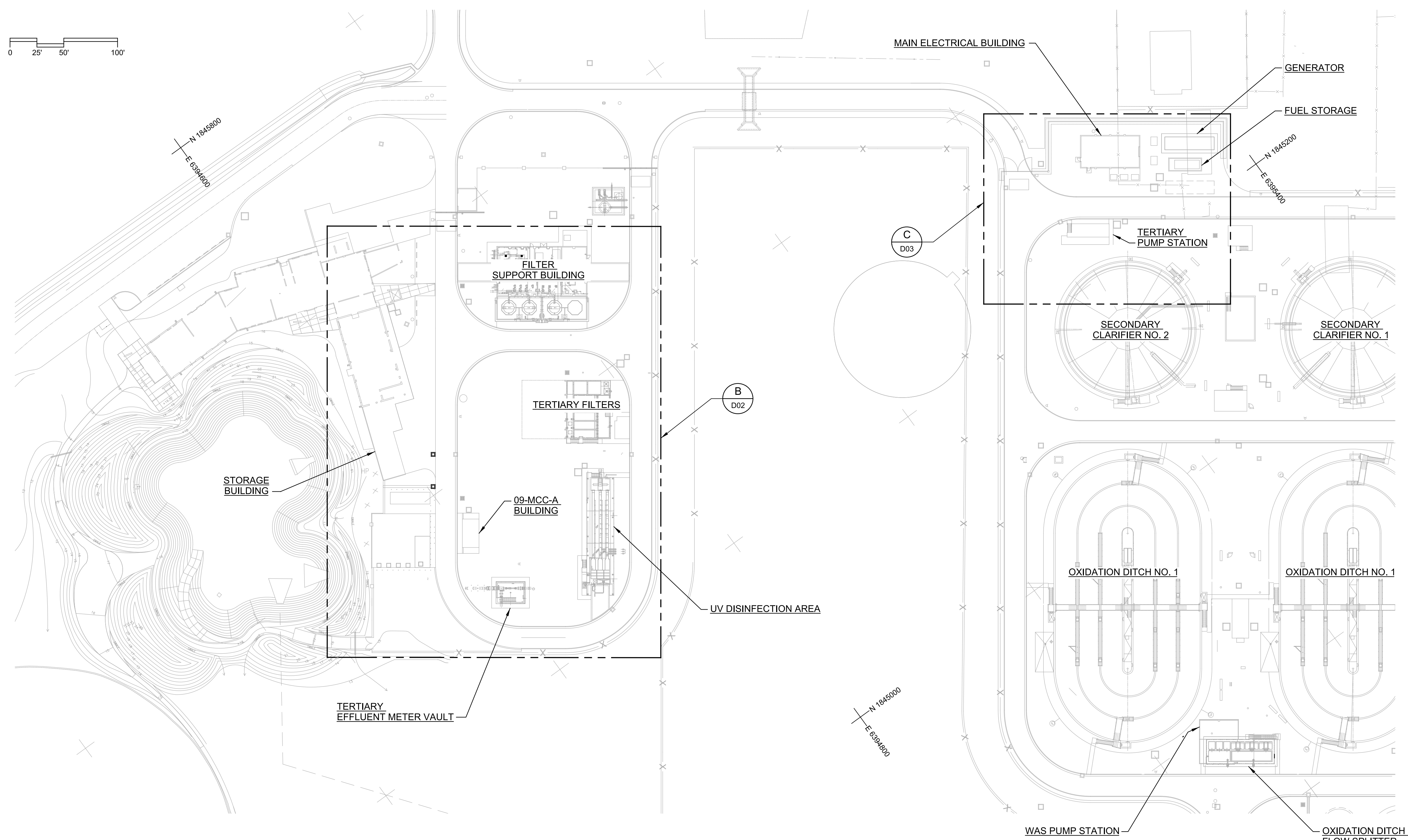
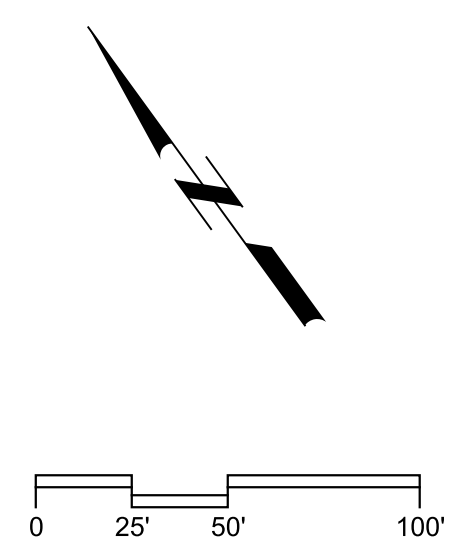
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User: svcPW

PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Site_Plan_v0905.pen

LAST SAVED BY: mvelch



- GENERAL DEMOLITION NOTES:**
1. NOT ALL DEMOLITION WORK REQUIRED ON THIS PROJECT IS SHOWN ON THE DEMOLITION DRAWINGS. SEE OTHER CONTRACT DWGS FOR ADDITIONAL DEMOLITION WORK REQUIRED. SEE YARD PIPING DRAWINGS FOR BELOW GRADE PIPING DEMOLITION.
 2. COORDINATE DEMOLITION WORK WITH SPECIFICATION SECTIONS 01140.
 3. THE DEMOLITION DRAWINGS HEREIN ARE PROVIDED TO THE CONTRACTOR FOR REFERENCE IN DETERMINING THE SCOPE OF DEMOLITION REQUIRED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATIONS AS NECESSARY TO SATISFY HIMSELF AS TO FIELD CONDITIONS. THE USE OF THESE DRAWINGS SHALL BE AT CONTRACTOR'S DISCRETION. THE CONTRACTOR IS CAUTIONED TO REVIEW THE GENERAL CONDITIONS OUTLINED IN VOLUME.
 4. ALL AREAS WHERE CONCRETE FILL IS CALLED FOR SHALL BE SANDBLASTED AND COATED WITH EPOXY BONDING AGENT PRIOR TO PLACING CONCRETE.
 5. WHERE EQUIPMENT, BRACKETS, CLAMPS, ETC. ARE REMOVED, FASTENER SHALL BE CUT OFF 1/2-INCH BELOW SURFACE. PATCH HOLE WITH NON-SHRINK GROUT.
 6. SALVAGE EQUIPMENT PER OWNER'S INSTRUCTION.
 7. PROVIDE 30 DAYS WRITTEN NOTICE TO OWNER PRIOR TO DEMOLISHING ANY STRUCTURE OR BUILDING.
 8. DISCONNECT AND REMOVE POWER AND CONTROL WIRING BETWEEN THE DEMOLISHED EQUIPMENT AND ITS ASSOCIATED MCC OR CONTROL PANEL. PALLETIZE CONDUITS AND WIRES AND RETURN TO OWNER.
 9. REFER TO SPEC SECTION 02200 FOR CLEARING, GRUBBING, AND STRIPPING REQUIREMENTS.
 10. SITE DEMOLITION WILL IMPACT EXISTING DRAINAGE PATTERNS. MAINTAIN SITE DRAINAGE PATTERNS DURING CONSTRUCTION. REROUTE EARTHEN SWALES AND PROVIDE TEMPORARY FACILITIES AS NECESSARY.

A PLAN
FILE: 7310L1000C9100

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED DWW	
DRAWN DPF	
CHECKED	
DATE JANUARY 2023	

Digitally signed by Douglas W. Wing
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.03 09:57:48 -0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 DEMOLITION
 OVERALL SITE PLAN

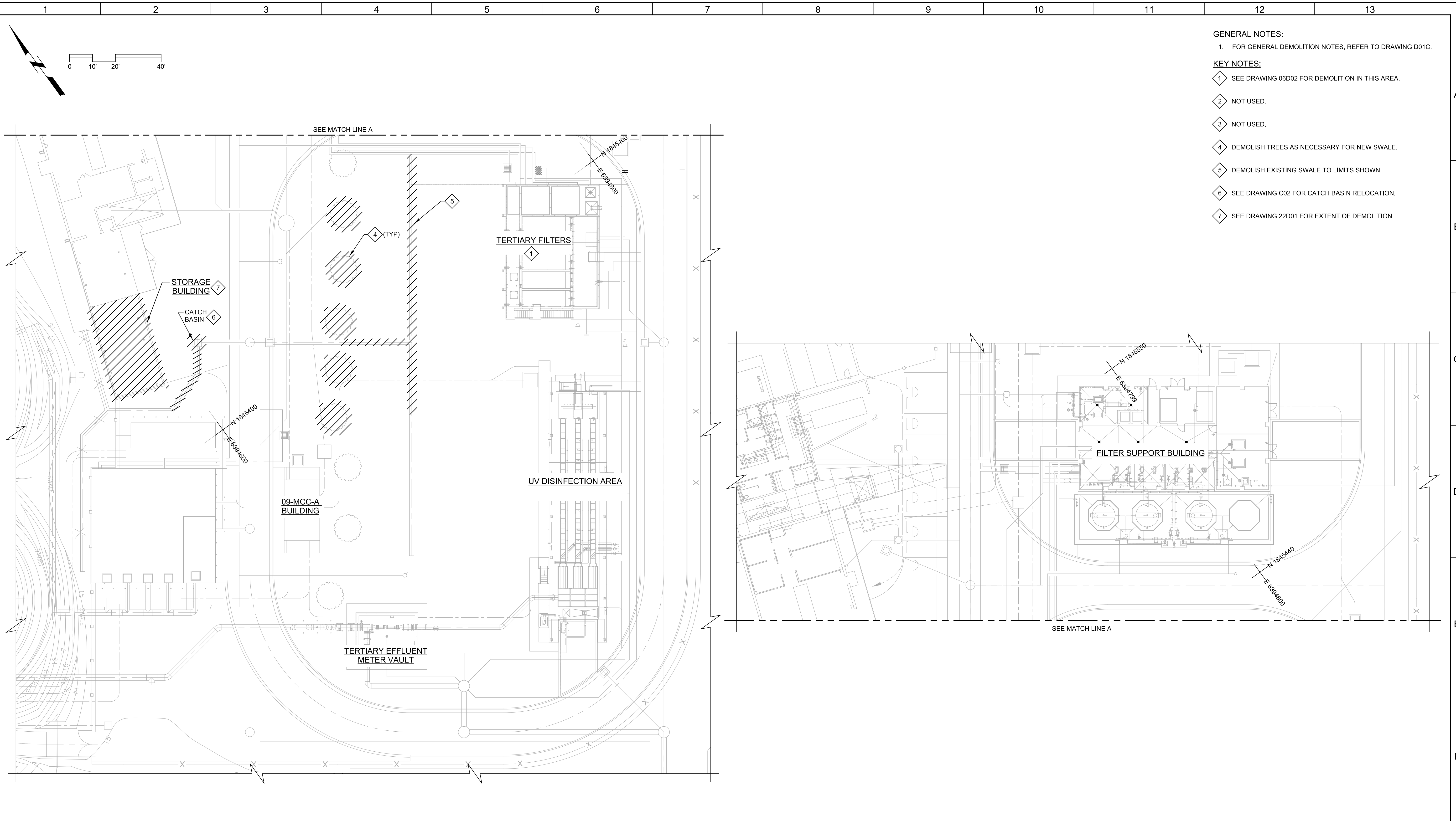
VERIFY SCALES	JOB NO. 7310L.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D01C
0 1"	SHEET NO. 42 OF 130
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Plot Date: 03-APR-2023 9:57:47 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: luy



- GENERAL NOTES:**
- FOR GENERAL DEMOLITION NOTES, REFER TO DRAWING D01C.
- KEY NOTES:**
- SEE DRAWING 06D02 FOR DEMOLITION IN THIS AREA.
 - NOT USED.
 - NOT USED.
 - DEMOLISH TREES AS NECESSARY FOR NEW SWALE.
 - DEMOLISH EXISTING SWALE TO LIMITS SHOWN.
 - SEE DRAWING C02 FOR CATCH BASIN RELOCATION.
 - SEE DRAWING 22D01 FOR EXTENT OF DEMOLITION.

B PARTIAL PLAN
D01 FILE: 7310L1000D9100

REV	DATE	BY	DESCRIPTION

DESIGNED DWW	
DRAWN DPF	
CHECKED	
DATE JANUARY 2023	

Digitally signed by Douglas W. Wing
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.03 09:57:47 -0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 DEMOLITION
 PARTIAL SITE PLAN - I

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7310L.10
DRAWING NO. D02C
SHEET NO. 43 OF 130

Plot Date: 03-APR-2023 10:03:57 AM

User: svcPW

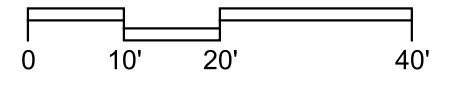
PlotScale: 1:1

Model: Layout1

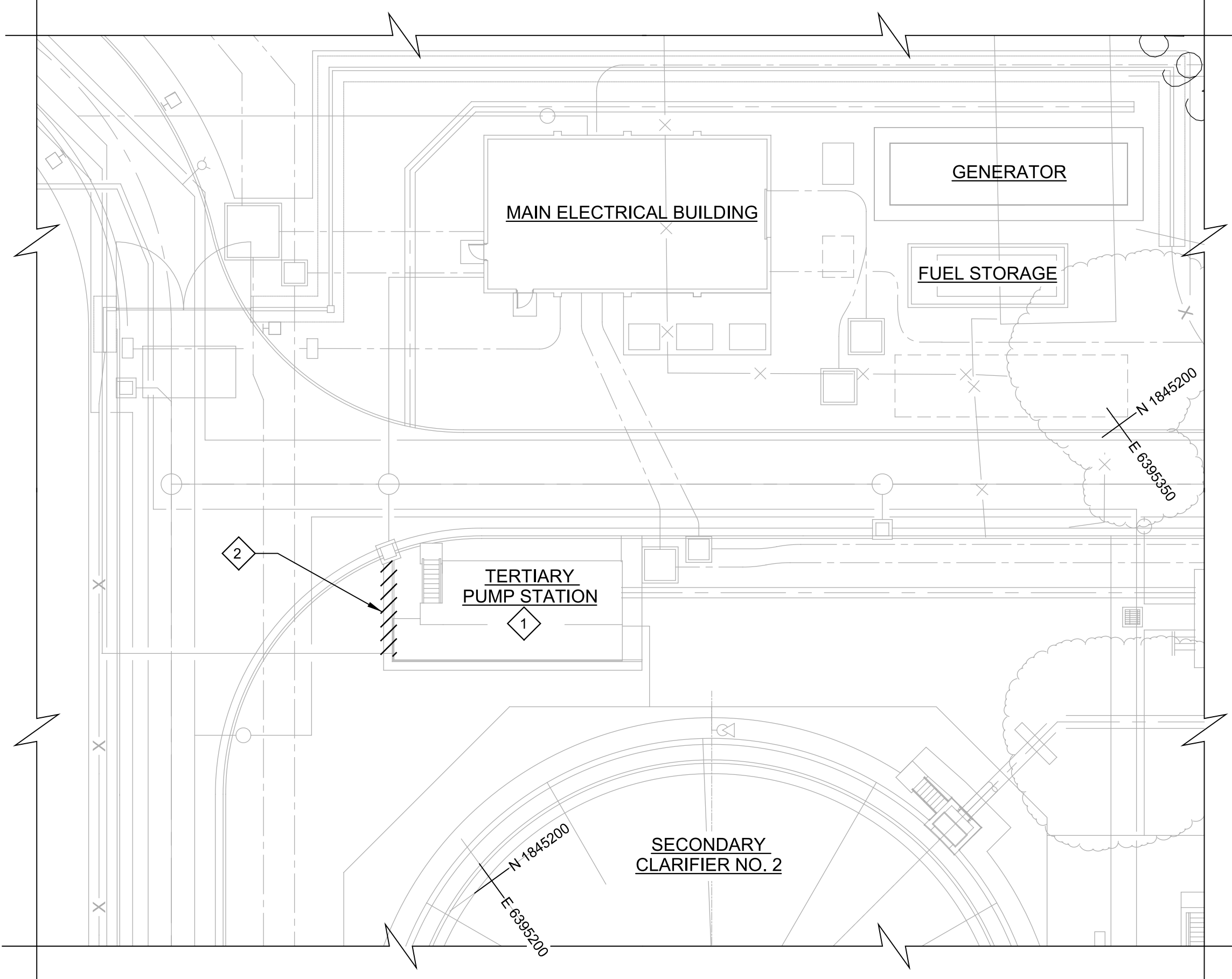
ColorTable: gshade.ctb

DesignScript: Carollo_Site_Pen_v0905.pen

LAST SAVED BY: lumadhay



- GENERAL NOTES:**
- FOR GENERAL DEMOLITION NOTES, REFER TO DRAWING D01C.
- KEY NOTES:**
- SEE DRAWING 06D01 FOR DEMOLITION IN THIS AREA.
 - DEMOLISH CONCRETE SWALE. LIMIT TO MATCH NEW EQUIPMENT PAD. REFERENCE DRAWING 06M01.



C PARTIAL PLAN
D01 FILE: 7310L1000D9100

REV	DATE	BY	DESCRIPTION

DESIGNED
DWW
DRAWN
DPF
CHECKED
DATE
JANUARY 2023



Digitally signed by Douglas W. Wink
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.19 09:39:32 -0700



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
DEMOLITION
PARTIAL SITE PLAN - II

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

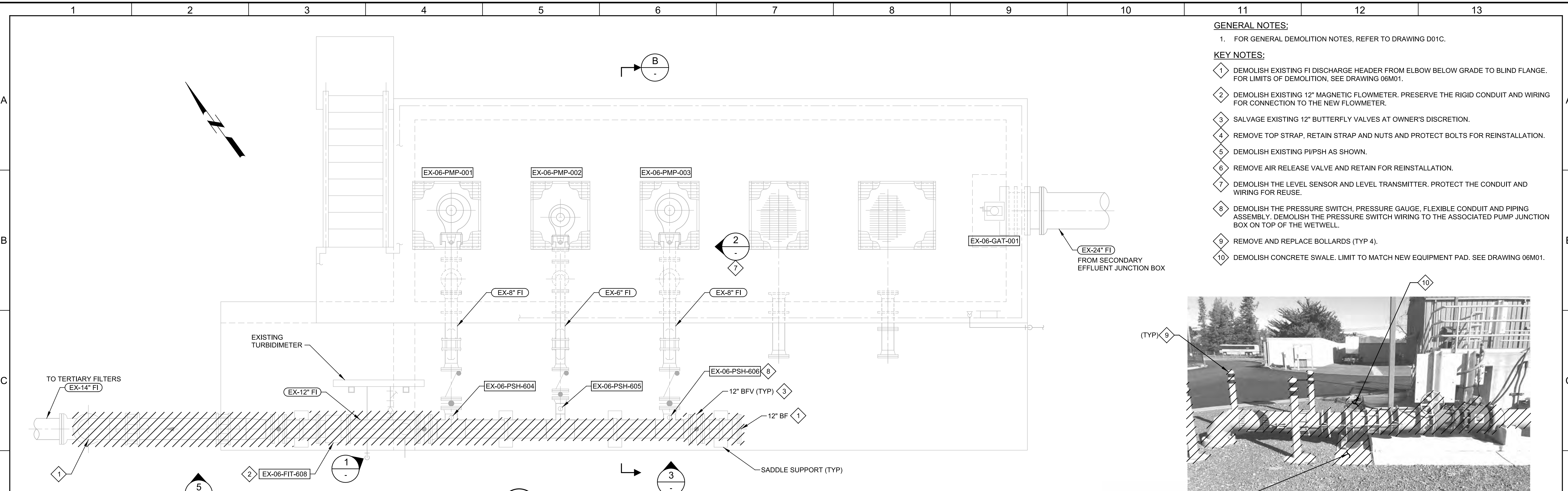
JOB NO.
7310L.10
DRAWING NO.
D03C
SHEET NO.
44 OF 130

Plot Date: 03-APR-2023 9:50:39 AM

User: svcPW

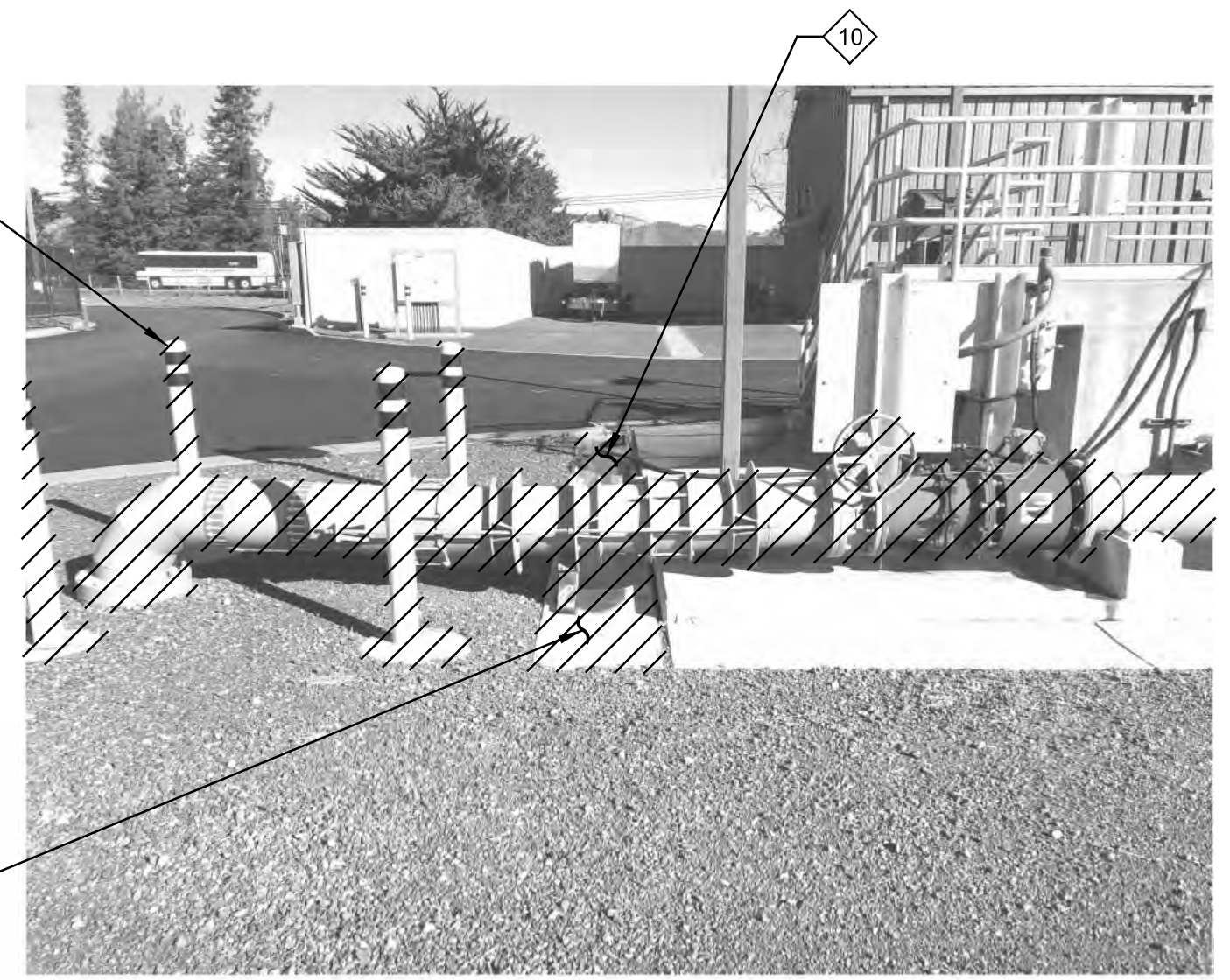
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: lumadhay

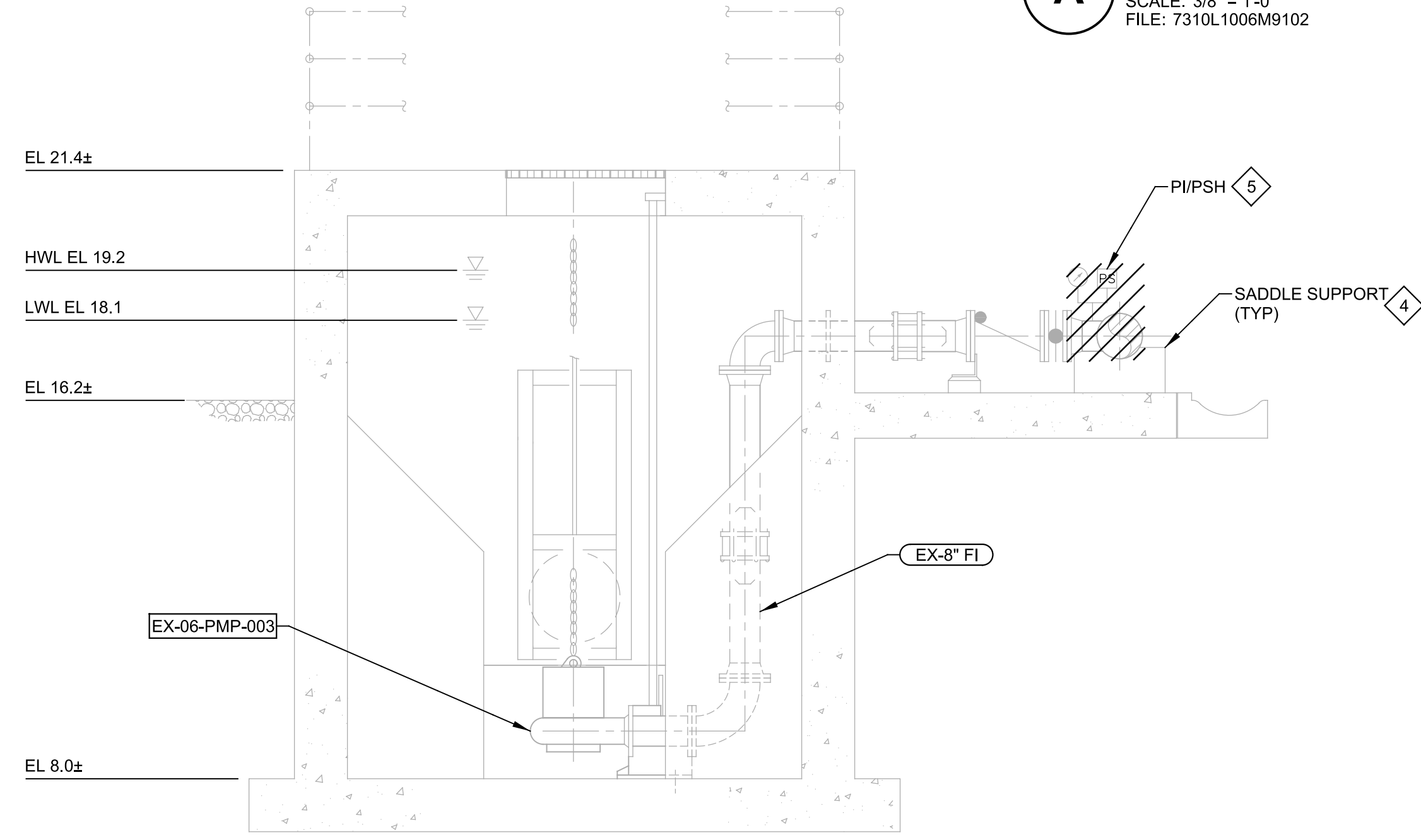


A PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 7310L1006M9102

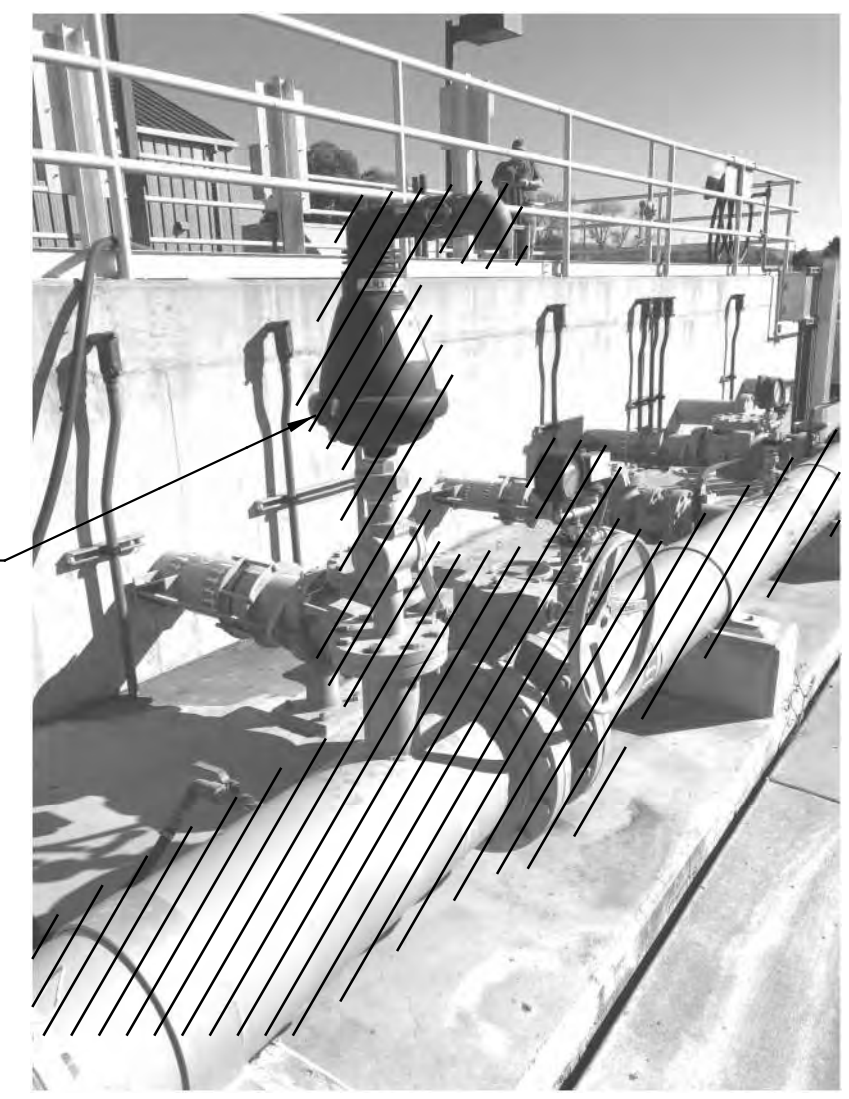
- GENERAL NOTES:**
- FOR GENERAL DEMOLITION NOTES, REFER TO DRAWING D01C.
- KEY NOTES:**
- DEMOLISH EXISTING FI DISCHARGE HEADER FROM ELBOW BELOW GRADE TO BLIND FLANGE. FOR LIMITS OF DEMOLITION, SEE DRAWING 06M01.
 - DEMOLISH EXISTING 12" MAGNETIC FLOWMETER. PRESERVE THE RIGID CONDUIT AND WIRING FOR CONNECTION TO THE NEW FLOWMETER.
 - SALVAGE EXISTING 12" BUTTERFLY VALVES AT OWNER'S DISCRETION.
 - REMOVE TOP STRAP, RETAIN STRAP AND NUTS AND PROTECT BOLTS FOR REINSTALLATION.
 - DEMOLISH EXISTING PIPSH AS SHOWN.
 - REMOVE AIR RELEASE VALVE AND RETAIN FOR REINSTALLATION.
 - DEMOLISH THE LEVEL SENSOR AND LEVEL TRANSMITTER. PROTECT THE CONDUIT AND WIRING FOR REUSE.
 - DEMOLISH THE PRESSURE SWITCH, PRESSURE GAUGE, FLEXIBLE CONDUIT AND PIPING ASSEMBLY. DEMOLISH THE PRESSURE SWITCH WIRING TO THE ASSOCIATED PUMP JUNCTION BOX ON TOP OF THE WETWELL.
 - REMOVE AND REPLACE BOLLARDS (TYP 4).
 - DEMOLISH CONCRETE SWALE. LIMIT TO MATCH NEW EQUIPMENT PAD. SEE DRAWING 06M01.



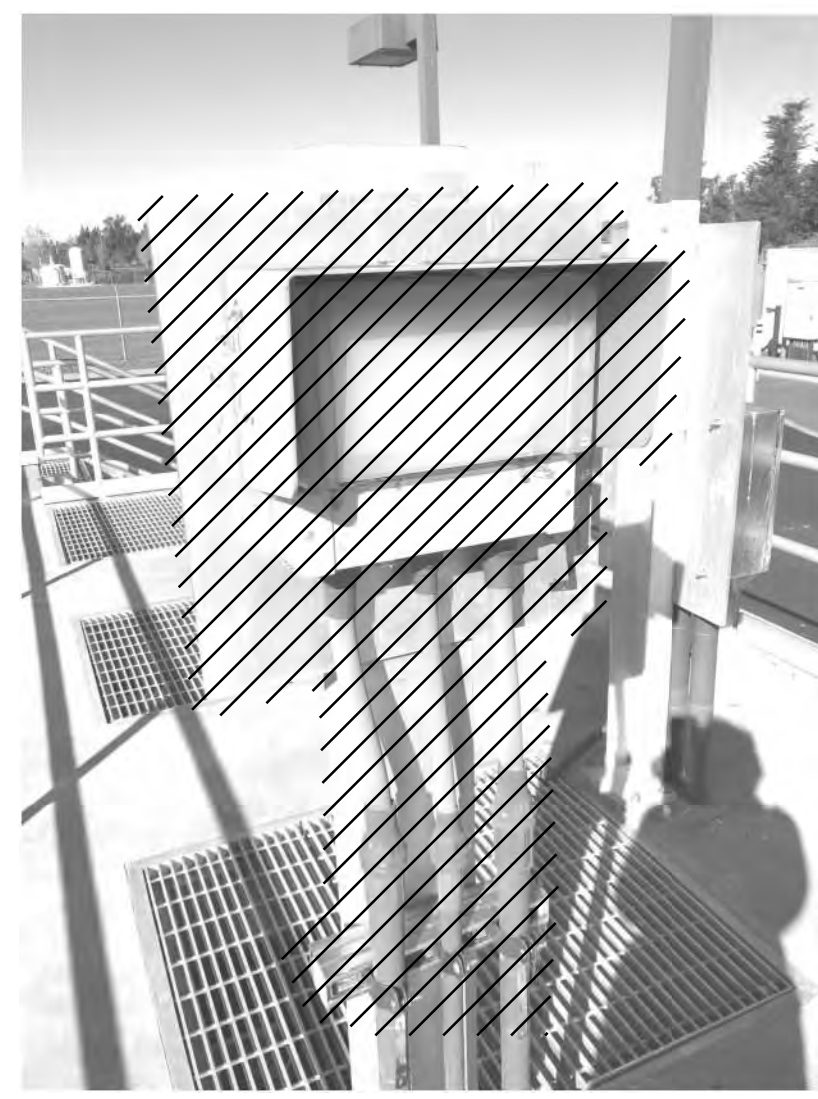
5 PHOTO
 SCALE: NO SCALE
 FILE: 7310L1006D01D



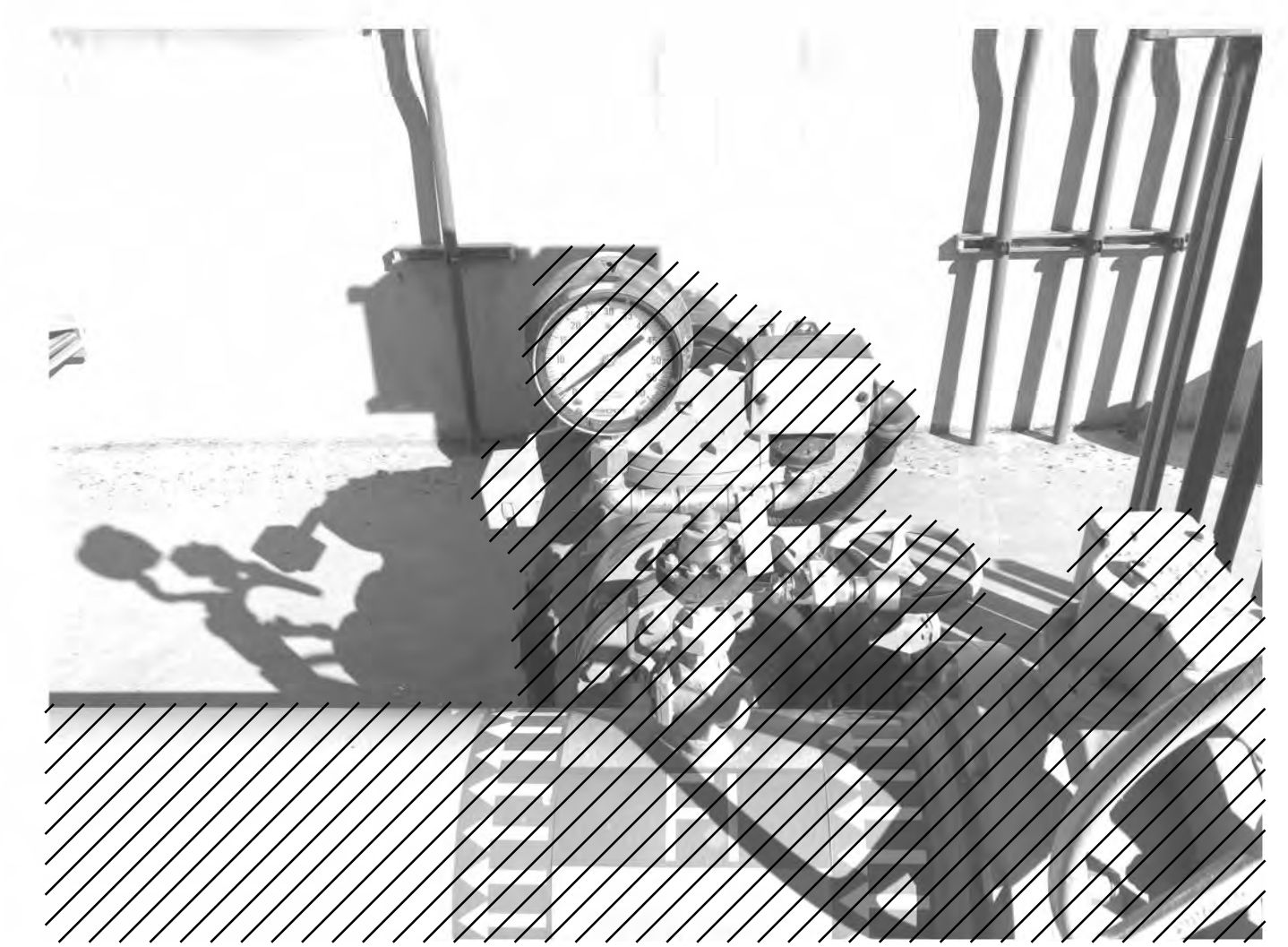
B SECTION
 SCALE: 3/8" = 1'-0"
 FILE: 7310L1006M9104



1 PHOTO
 SCALE: NO SCALE
 FILE: 7310L1006D01A



2 PHOTO
 SCALE: NO SCALE
 FILE: 7310L1006D01B



3 PHOTO
 SCALE: NO SCALE
 FILE: 7310L1006D01C

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
DWW
DRAWN
DPF
CHECKED
RH
DATE
JANUARY 2023



Digitally signed by Douglas W. Wing
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.03 09:50:39 -0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 DEMOLITION
**TERTIARY PUMP STATION
 PLAN, SECTION, AND PHOTOS**

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

JOB NO.
7310L.10
DRAWING NO.
06D01
SHEET NO.
45 OF 130

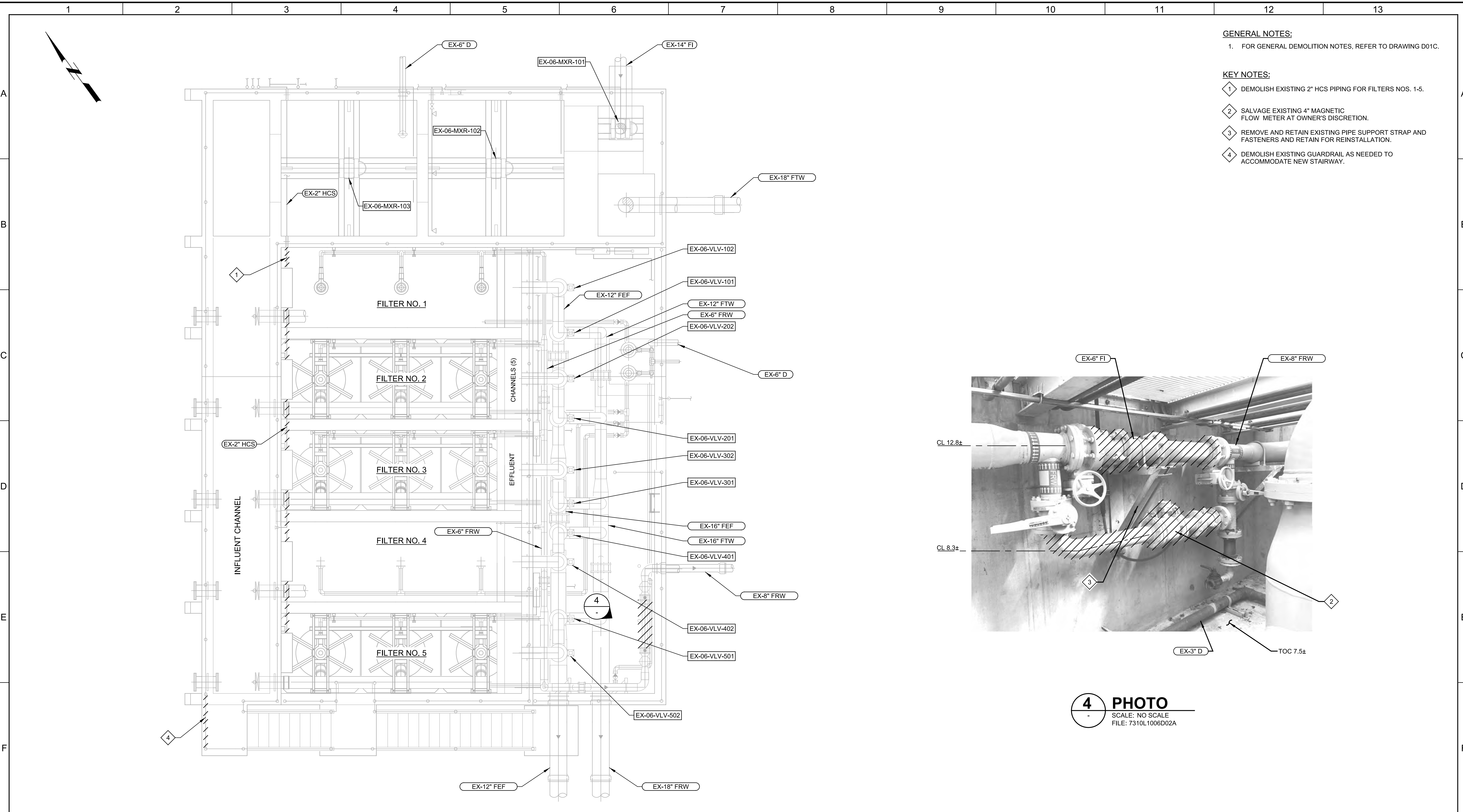
Plot Date: 03-APR-2023 9:57:55 AM

User: svcPW

PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen

LAST SAVED BY: lumadhay

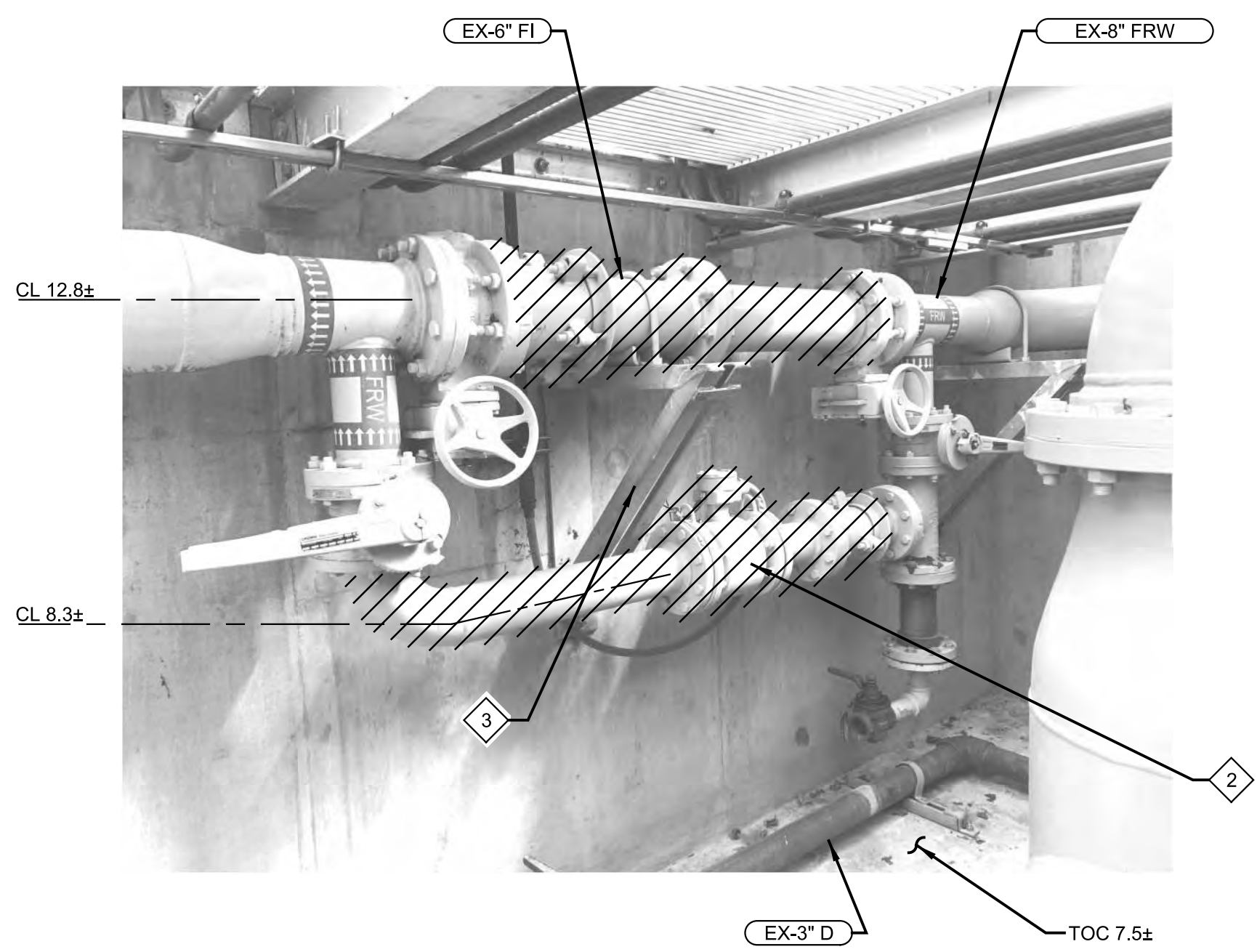


GENERAL NOTES:

- FOR GENERAL DEMOLITION NOTES, REFER TO DRAWING D01C.

KEY NOTES:

- DEMOLISH EXISTING 2" HCS PIPING FOR FILTERS NOS. 1-5.
- SALVAGE EXISTING 4" MAGNETIC FLOW METER AT OWNER'S DISCRETION.
- REMOVE AND RETAIN EXISTING PIPE SUPPORT STRAP AND FASTENERS AND RETAIN FOR REINSTALLATION.
- DEMOLISH EXISTING GUARDRAIL AS NEEDED TO ACCOMMODATE NEW STAIRWAY.



4 PHOTO
SCALE: NO SCALE
FILE: 7310L1006D02A

C PLAN
SCALE: 1/4" = 1'-0"
FILE: 7310L1006M9101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
DWW
DRAWN
DPF
CHECKED
DM
DATE
JANUARY 2023



Digitally signed by Douglas W. Wang
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.13 09:57:55 -0700

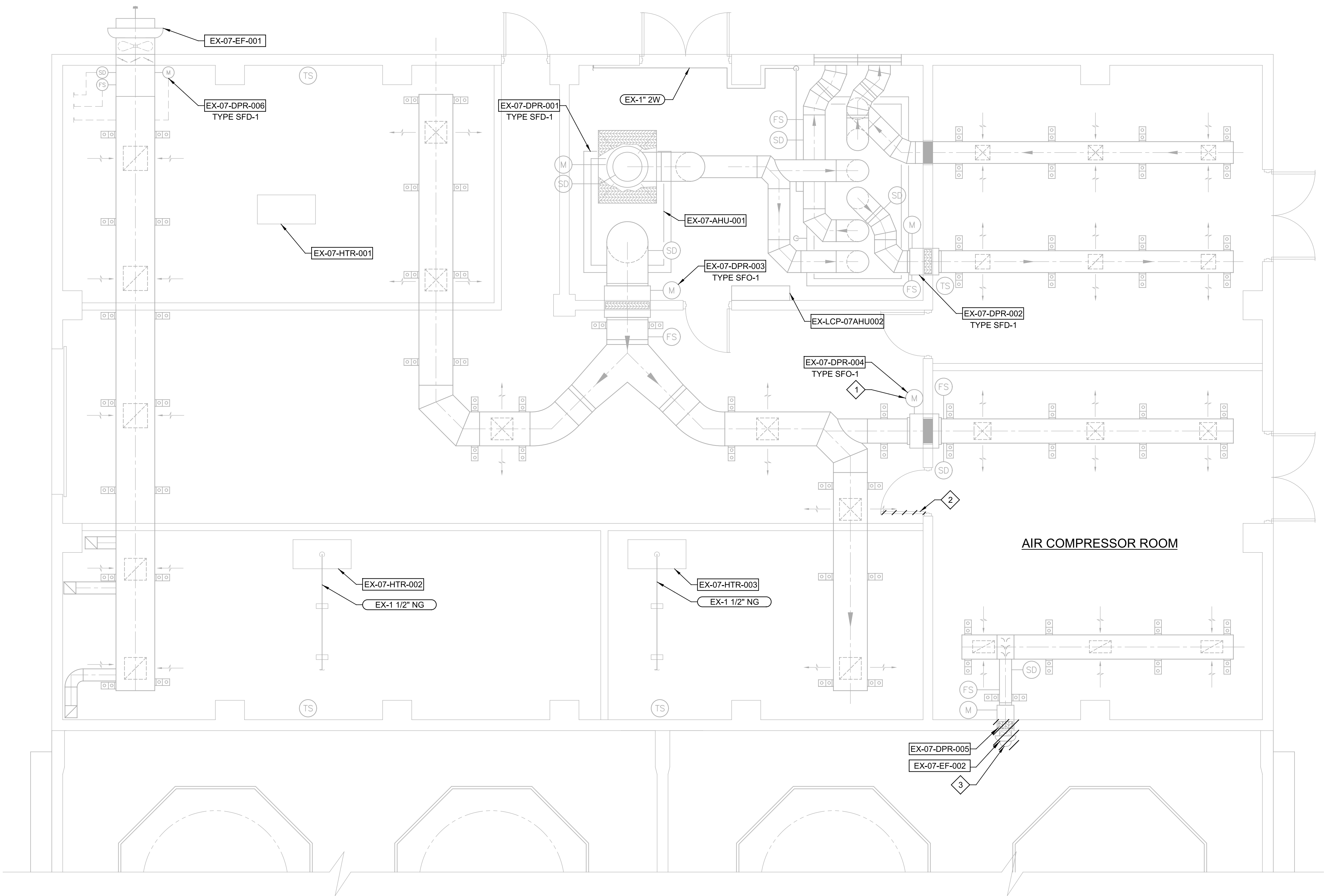
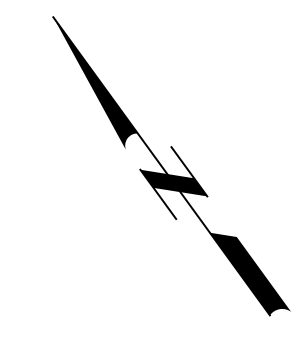


CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
DEMOLITION
TERTIARY FILTERS 1-5
PLAN AND PHOTO

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

JOB NO.
7310L.10
DRAWING NO.
06D02
SHEET NO.
46 OF 130

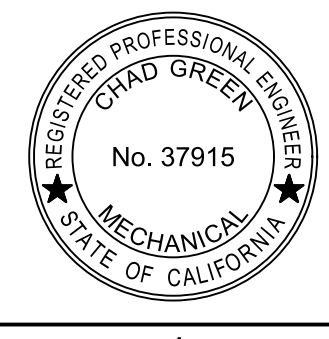
Plot Date: 03-APR-2023 9:50:35 AM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: luy



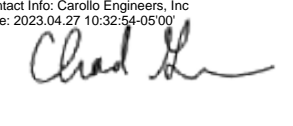
A PLAN
 SCALE: 1/4" = 1'-0"
 FILE: 7310L1007H9100

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED: DW
 DRAWN: DPF
 CHECKED: CAG
 DATE: JANUARY 2023



Digitally signed by Chad A. Green
 Contact Info: Carollo Engineers, Inc
 Date: 2023.04.07 10:52:40-0700




CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 DEMOLITION
 FILTER SUPPORT BUILDING
 HVAC PLAN

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7310L.10
 DRAWING NO. 07D01
 SHEET NO. 47 OF 130

Plot Date: 03-APR-2023 10:00:20 AM

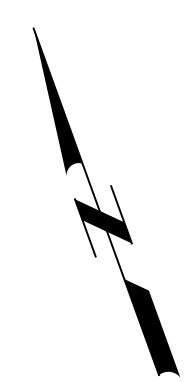
User: svcPW

PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sid_Pen_v0905.pen

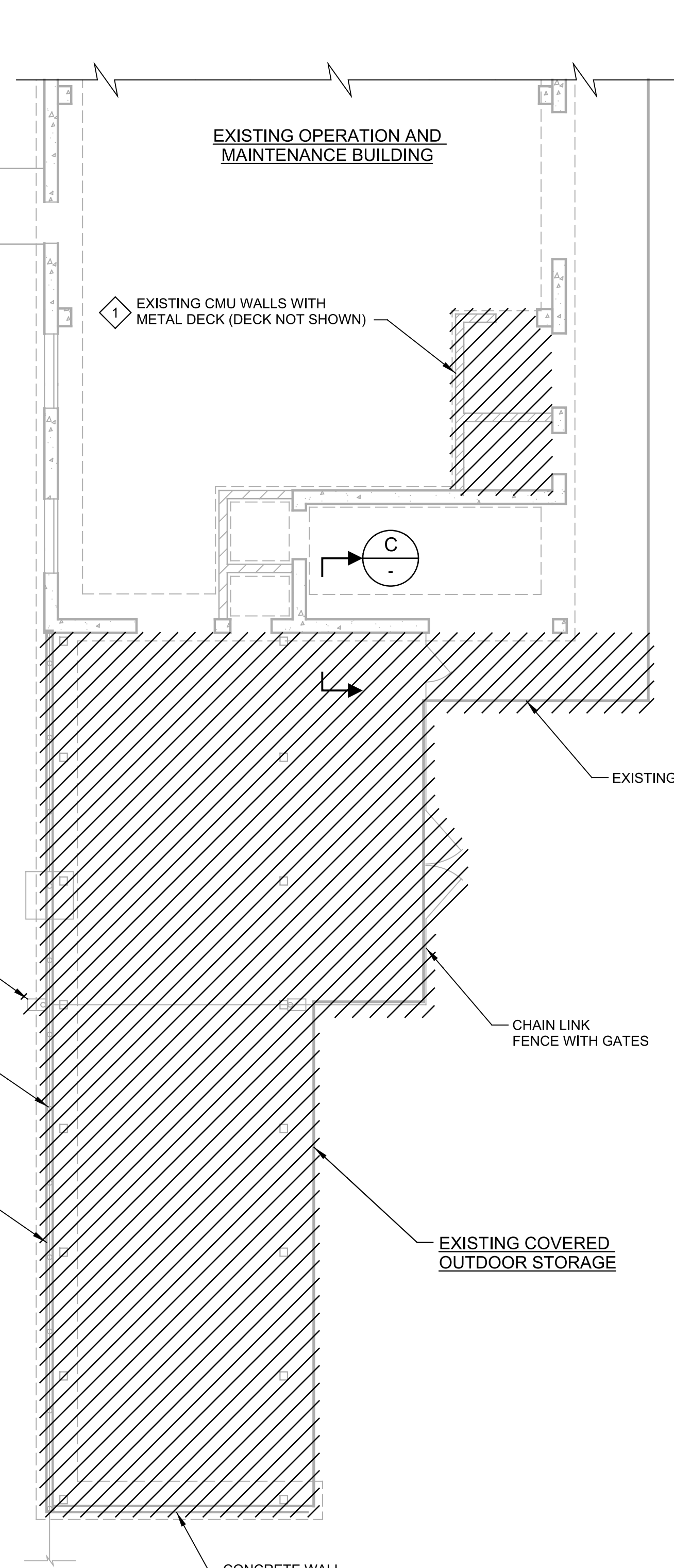
1 2 3 4 5 6 7 8 9 10 11 12 13

A B C D E F G

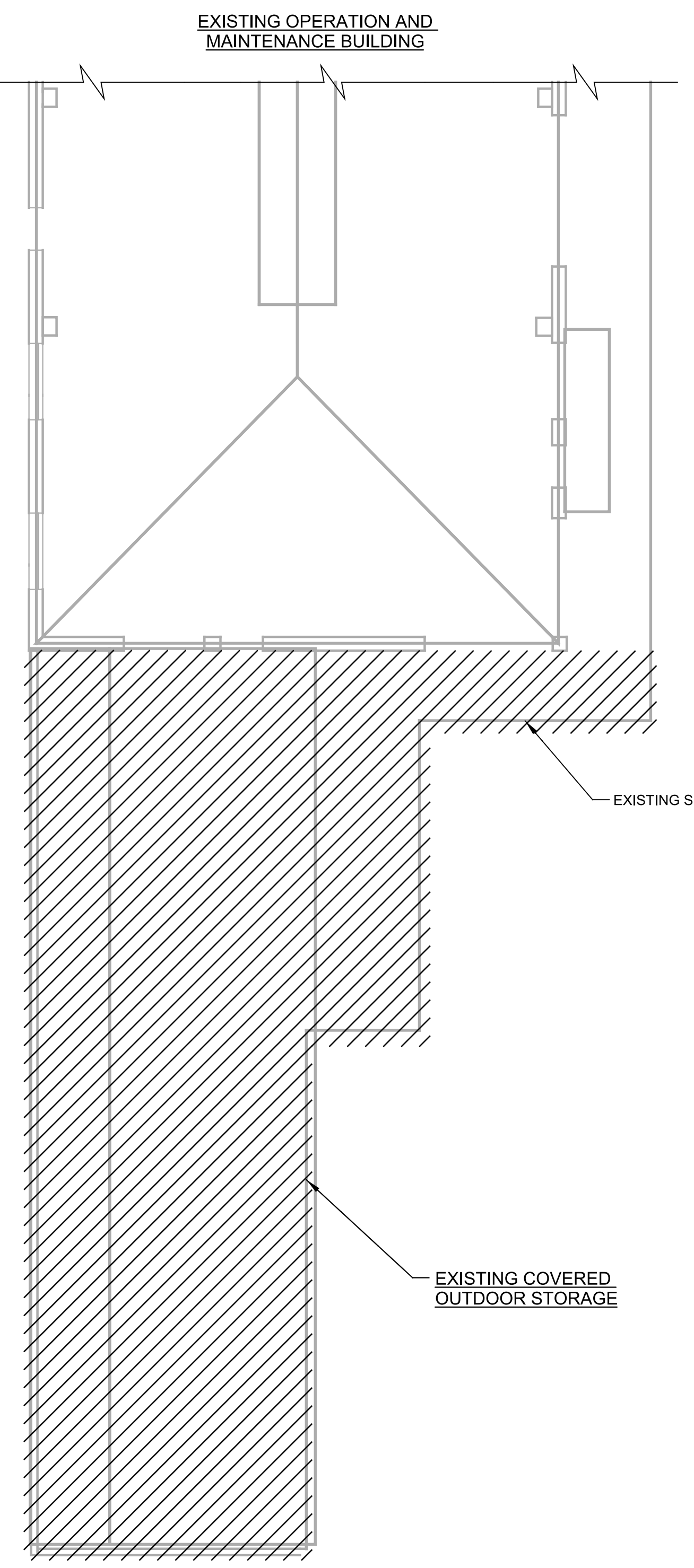


GENERAL NOTES:
1. FOR GENERAL DEMOLITION NOTES, REFER TO DRAWING D01C.

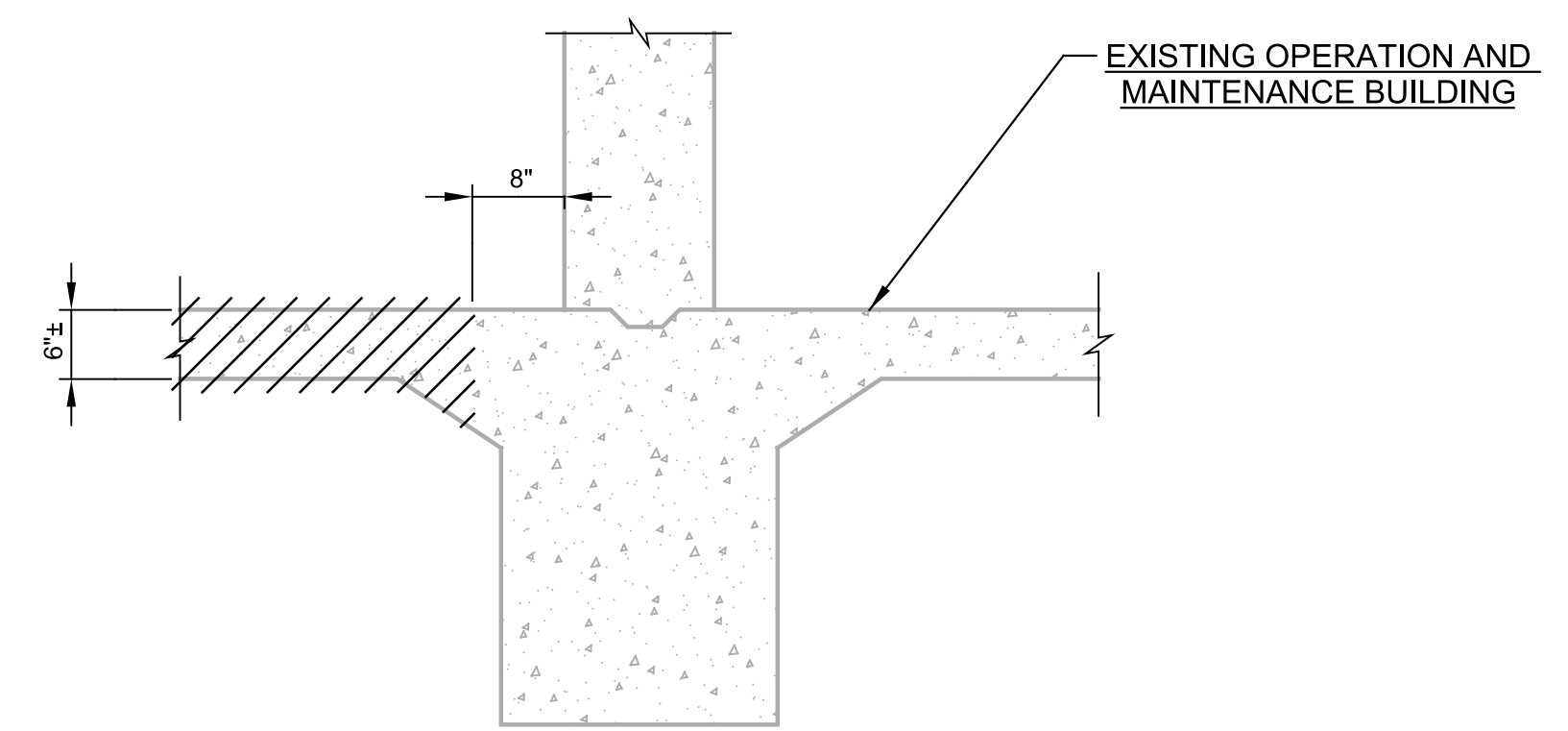
KEY NOTES:
1. DEMOLISH METAL DECK (NOT SHOWN) ABOVE CMU WALLS.



A FLOOR PLAN
SCALE: 1/8" = 1'-0"
FILE: 7310L1022D100



B ROOF PLAN
SCALE: 1/8" = 1'-0"
FILE: 7310L1022D100



C SECTION
SCALE: 3/4" = 1'-0"
FILE: 7310L1022D300

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
DRAWN
DPF
CHECKED
DWW
DATE
JANUARY 2023



Eric Wilkins



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
DEMOLITION
STORAGE BUILDING
PLANS AND SECTION

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

JOB NO.
7310L.10
DRAWING NO.
22D01
SHEET NO.
48 OF 130

Plot Date: 03-APR-2023 10:44:35 AM

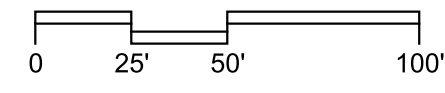
User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1

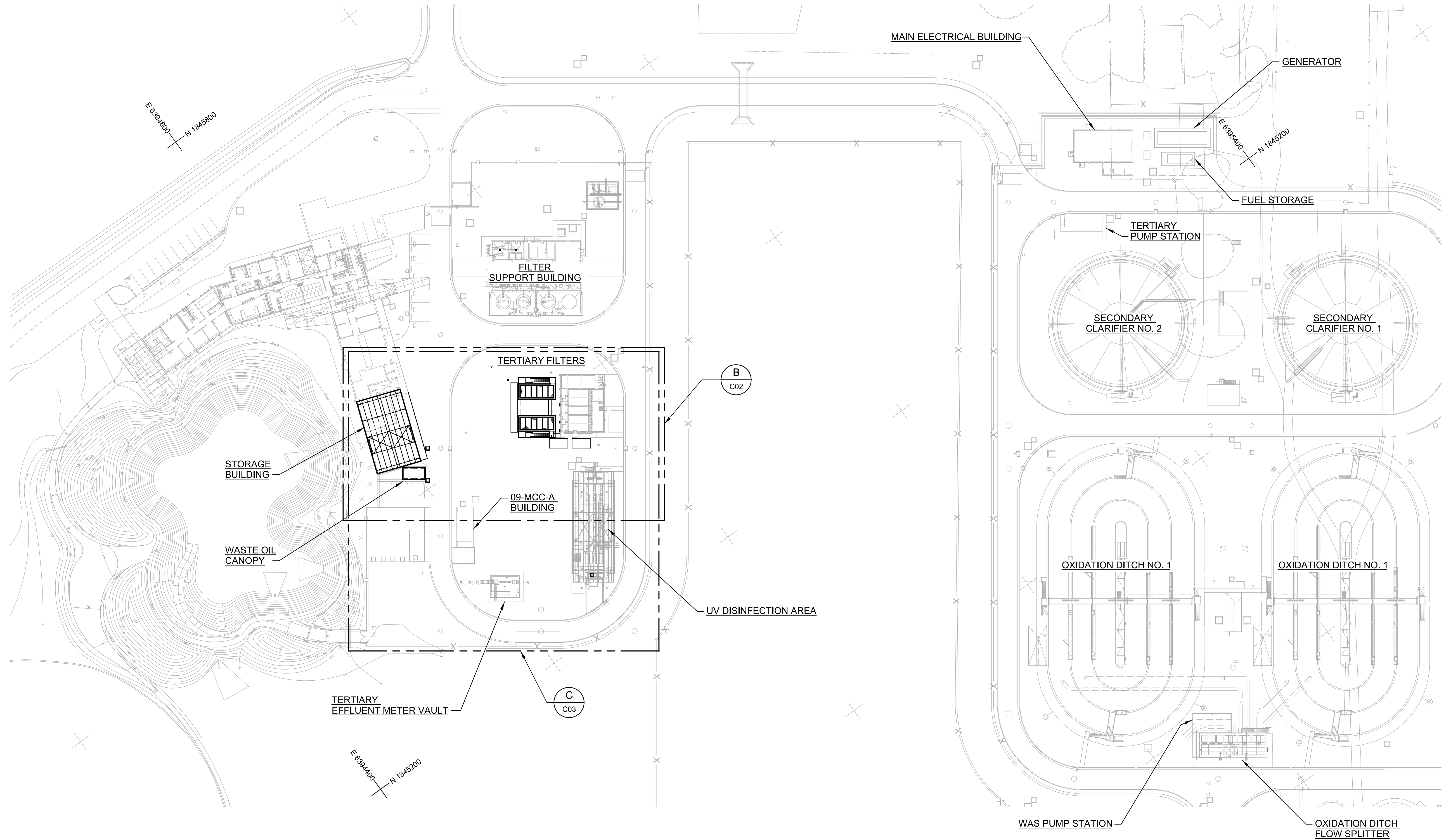
LAST SAVED BY: luy

GENERAL NOTES:

1. FOR GENERAL CIVIL NOTES, REFERENCE SHEET G09C.
2. SEE GEOTECHNICAL REPORT FOR SITE PREPARATION AND ENGINEERED FILL RECOMMENDATIONS.



BENCHMARK
 HORIZONTAL DATUM - NAD 1983
 VERTICAL DATUM - NGVD 1929
 2005 SURVEY DATA PROVIDED BY:
 TOPOGRAPHIC SURVEYS, INC.



A PLAN
 FILE: 7310L1000C9100

REV	DATE	BY	DESCRIPTION

DESIGNED
DWW
 DRAWN
DPF
 CHECKED
 DATE
JANUARY 2023



Digitally signed by Douglas W. Wang
 Contact info: Carollo Engineers, Inc.
 Date: 2023.04.03 10:44:35 -0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 CIVIL
 OVERALL SITE PLAN

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

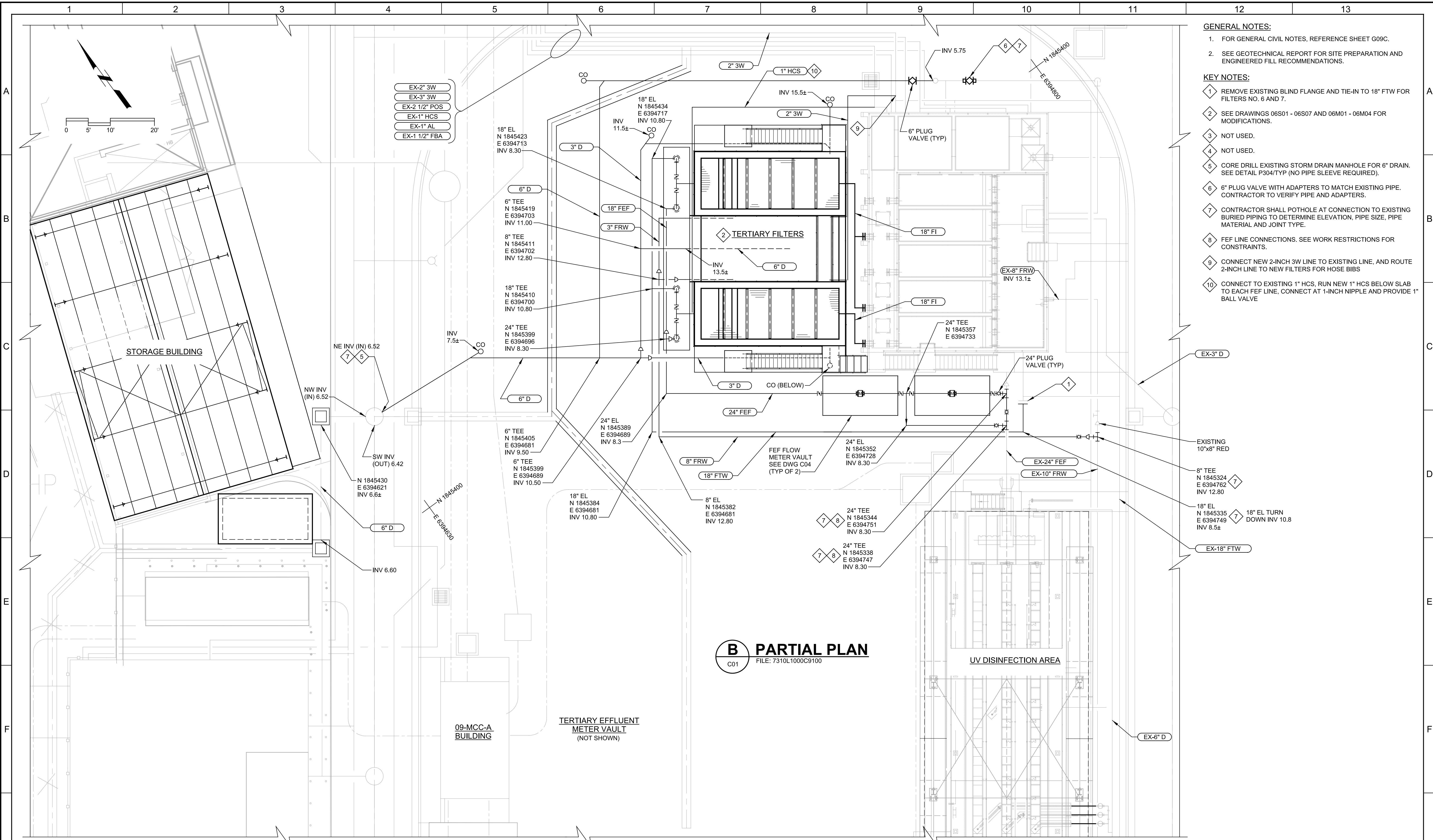
JOB NO.
7310L.10
 DRAWING NO.
C01C
 SHEET NO.
49 OF 130

Plot Date: 03-APR-2023 10:44:00 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: luy



B PARTIAL PLAN
 FILE: 7310L1000C9100

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED DWW
DRAWN DPF
CHECKED
DATE JANUARY 2023



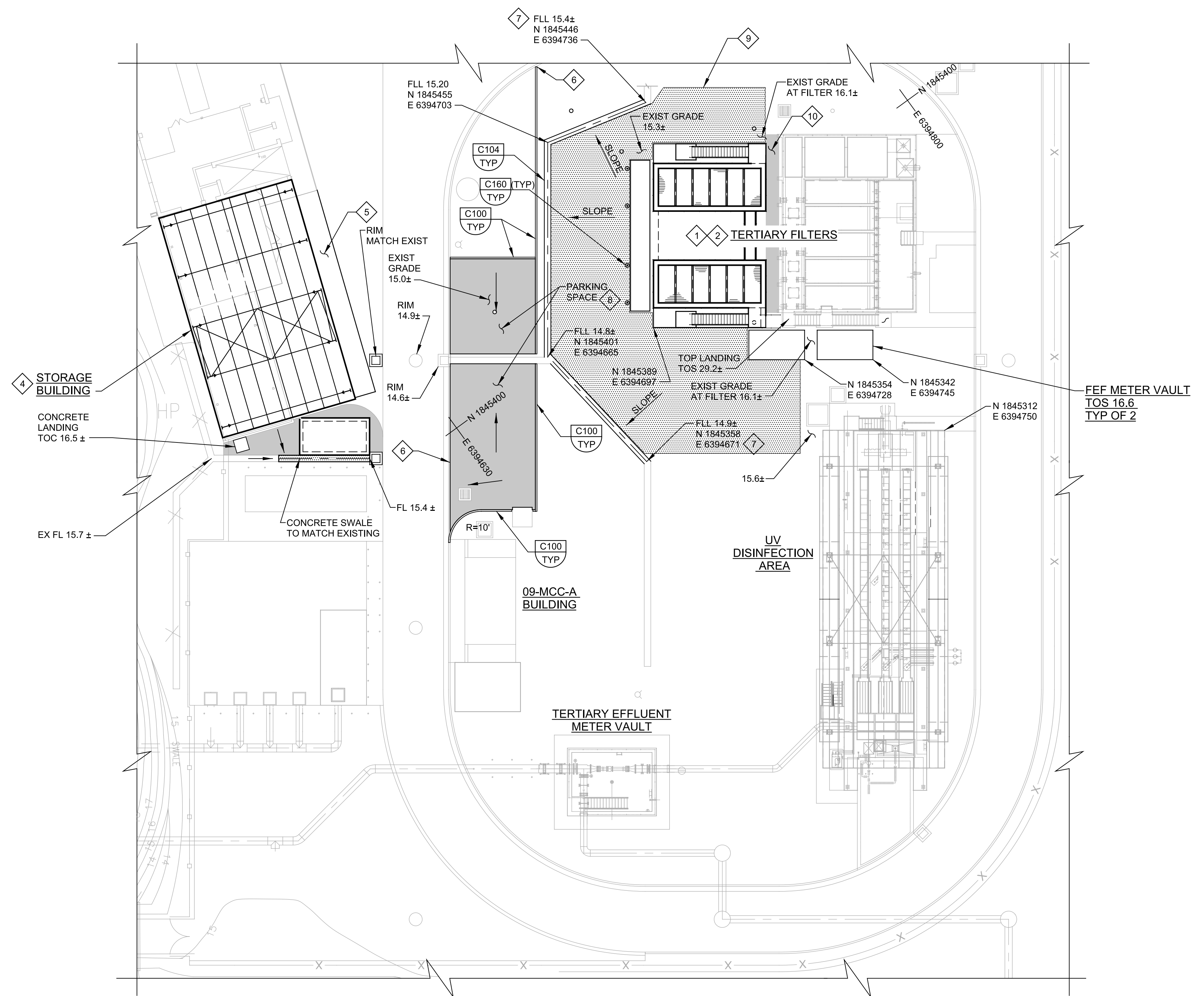
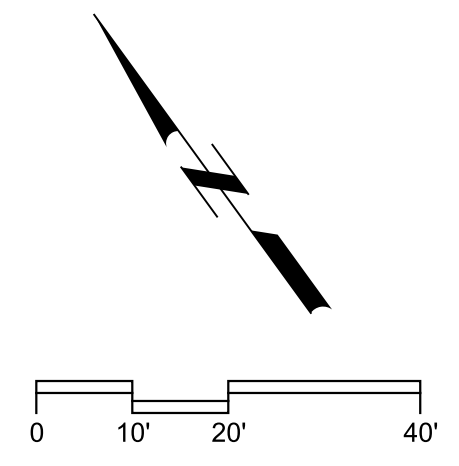
Digitally signed by Douglas W. Wirth
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.03 09:39:07Z



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 CIVIL
**YARD PIPING
 PARTIAL PLAN**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 7310L.10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. C02C
	SHEET NO. 50 OF 130

Plot Date: 21-APR-2023 8:42:13 AM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sid_Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: luy



- GENERAL NOTES:**
- FOR GENERAL CIVIL NOTES, REFERENCE SHEET G09C.
 - SEE STRUCTURAL DRAWINGS FOR COORDINATE LOCATION DETAILS.
 - SEE GEOTECHNICAL REPORT FOR SITE PREPARATION AND ENGINEERED FILL RECOMMENDATIONS.
- KEY NOTES:**
- FINISH GRADE AROUND FILTERS SHALL BE 16.1±.
 - TERTIARY FILTERS, SEE DRAWING 06S01.
 - NOT USED.
 - STORAGE BUILDING, SEE DRAWING 22S01.
 - STORAGE BUILDING SIDEWALK PER DETAIL C124/TYP, MATCH EXISTING WIDTH.
 - END DEPRESSED CURB AT EXISTING CONCRETE SWALE.
 - NEW SWALES SHALL TIE TO THE EXISTING SWALE AND PROVIDE AREA DRAINAGE.
 - STRIPE PARKING AREA FOR 5 SPACES.
 - ADD 6" AGGREGATE BASE
 - PAVE BETWEEN EXISTING FILTER AND NEW FILTERS, HIGH POINT 16.3 ± IN MIDDLE, 16.1 ± AT N AND S ENDS TO MATCH EXIST GRADE. 4-INCH AC AND 6-INCH ABC

C PARTIAL PLAN
 C01 FILE: 7310L1000C9100

REV	DATE	BY	DESCRIPTION

DESIGNED
DWW
DRAWN
DPF
CHECKED

DATE
JANUARY 2023



Digitally signed by Douglas W. Wink
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.19 09:58:30 -0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 CIVIL
 GRADING AND DRAINAGE
 PARTIAL PLAN

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

JOB NO.
7310L.10
DRAWING NO.
C03C
SHEET NO.
51 OF 130

Plot Date: 03-APR-2023 10:36:00 AM
 User: svcpw
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: KAKIN

DOOR & HARDWARE SCHEDULE

DOOR NO.	DOOR						FRAME						DETAILS			UL LABEL	CARD READER	REMARKS
	WIDTH	HEIGHT	THICK	STYLE	MAT'L	FINISH	WIDTH	HEIGHT	DEPTH	TYPE	MAT'L	FINISH	HEAD	JAMB	SILL			
D07-01	3'-0"	7'-2"	1 3/4"	F	AL	ANODIZED	3'-4"	7'-4"	6"	R	AL	ANODIZED	G	G	B	NR	NR	REFER TO ELEVATION B FOR LOUVER REQUIREMENTS. REFER TO 07H02 FOR FILTER REQUIREMENTS AND DOOR LOCATION
D22-01	3'-8"	7'-10"	1 3/4"	A	AL	ANODIZED	4'-0"	8'-0"	6"	S & T	AL	ANODIZED	AJ350/TYP	AJ350/TYP	AJ350/TYP	NR	NR	ALUMINUM-FRAMED ENTRANCE AND STOREFRONTS DESIGN W/ INSULATED PANELS
D22-02	3'-8"	7'-8"	1 3/4"	A	AL	ANODIZED	4'-0"	7'-10"	6"	R	AL	ANODIZED	G	G	E	NR	NR	REFER TO 22S05 FOR DOOR REFERENCE AND LOCATION
D22-03	10'-0"	10'-0"	3/4"	C	AL	ANODIZED	-	-	-	AJ123/TYP (SIM)	STL	COATED	AJ123/TYP (SIM)	AJ123/TYP (SIM)	AJ123/TYP (SIM)	NR	NR	REFER TO 22S05 FOR DOOR REFERENCE AND LOCATION
D22-04	10'-0"	10'-0"	3/4"	C	AL	ANODIZED	-	-	-	AJ123/TYP (SIM)	STL	COATED	AJ123/TYP (SIM)	AJ123/TYP (SIM)	AJ123/TYP (SIM)	NR	NR	REFER TO 22S05 FOR DOOR REFERENCE AND LOCATION
D22-05	10'-0"	10'-0"	3/4"	C	AL	ANODIZED	-	-	-	AJ123/TYP (SIM)	STL	COATED	AJ123/TYP (SIM)	AJ123/TYP (SIM)	AJ123/TYP (SIM)	NR	NR	REFER TO 22S05 FOR DOOR REFERENCE AND LOCATION
D22-06	PR @ 3'-0"	7'-2"	1 3/4"	A	AL	ANODIZED	6'-4"	7'-4"	6"	S & T	AL	ANODIZED	G	G	B	NR	NR	ALUMINUM-FRAMED ENTRANCE AND STOREFRONTS DESIGN W/ INSULATED PANELS

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR		BASE	NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		CEILING		REMARKS	
	MAT'L	FINISH	MAT'L	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	HEIGHT		FINISH
STORAGE BUILDING - AREA 22															
STORAGE ROOM	CONC	SEALED	FACT. FIN.	STEEL	FACT. FIN.	STEEL	FACT. FIN.	STEEL	FACT. FIN.	STEEL	FACT. FIN.	STEEL	VARIES	FACT. FIN.	-

GENERAL NOTES:

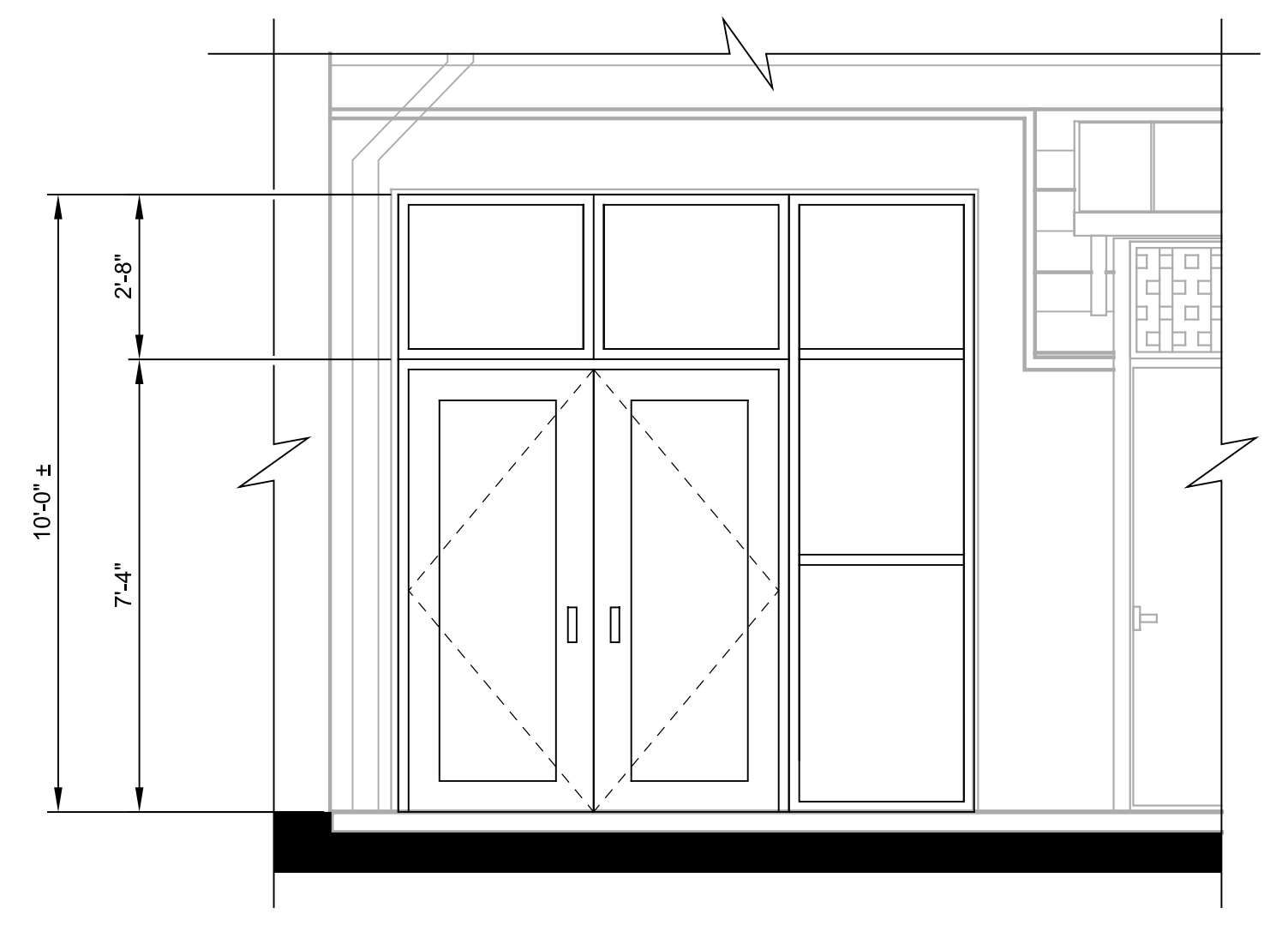
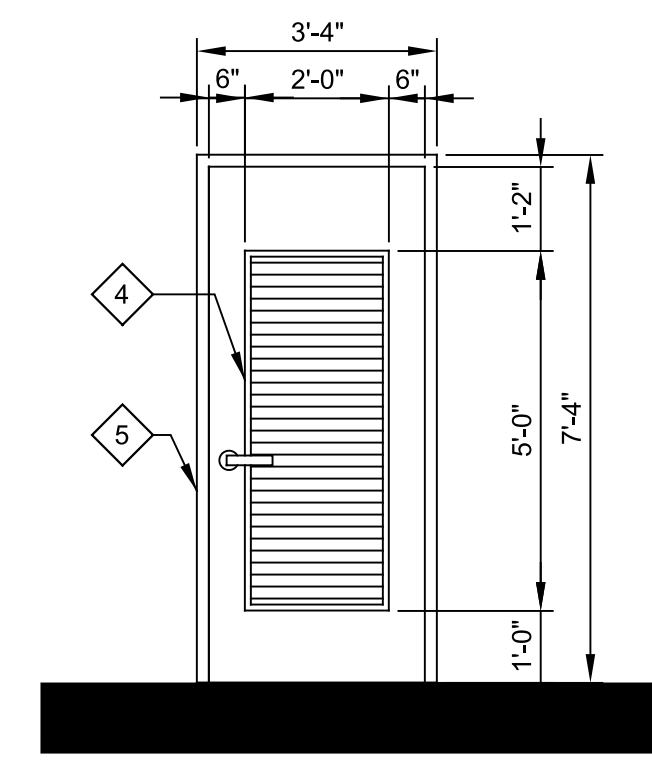
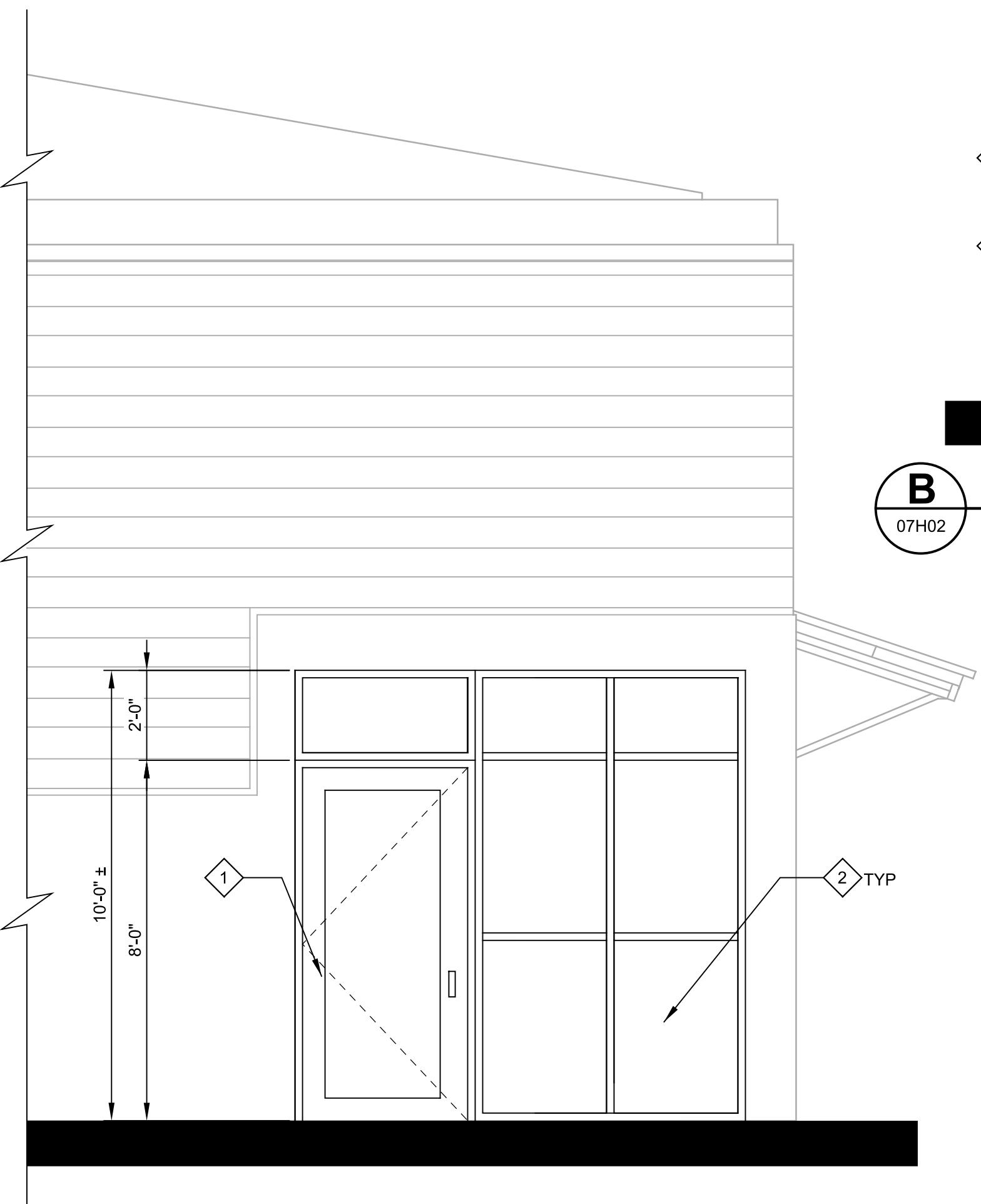
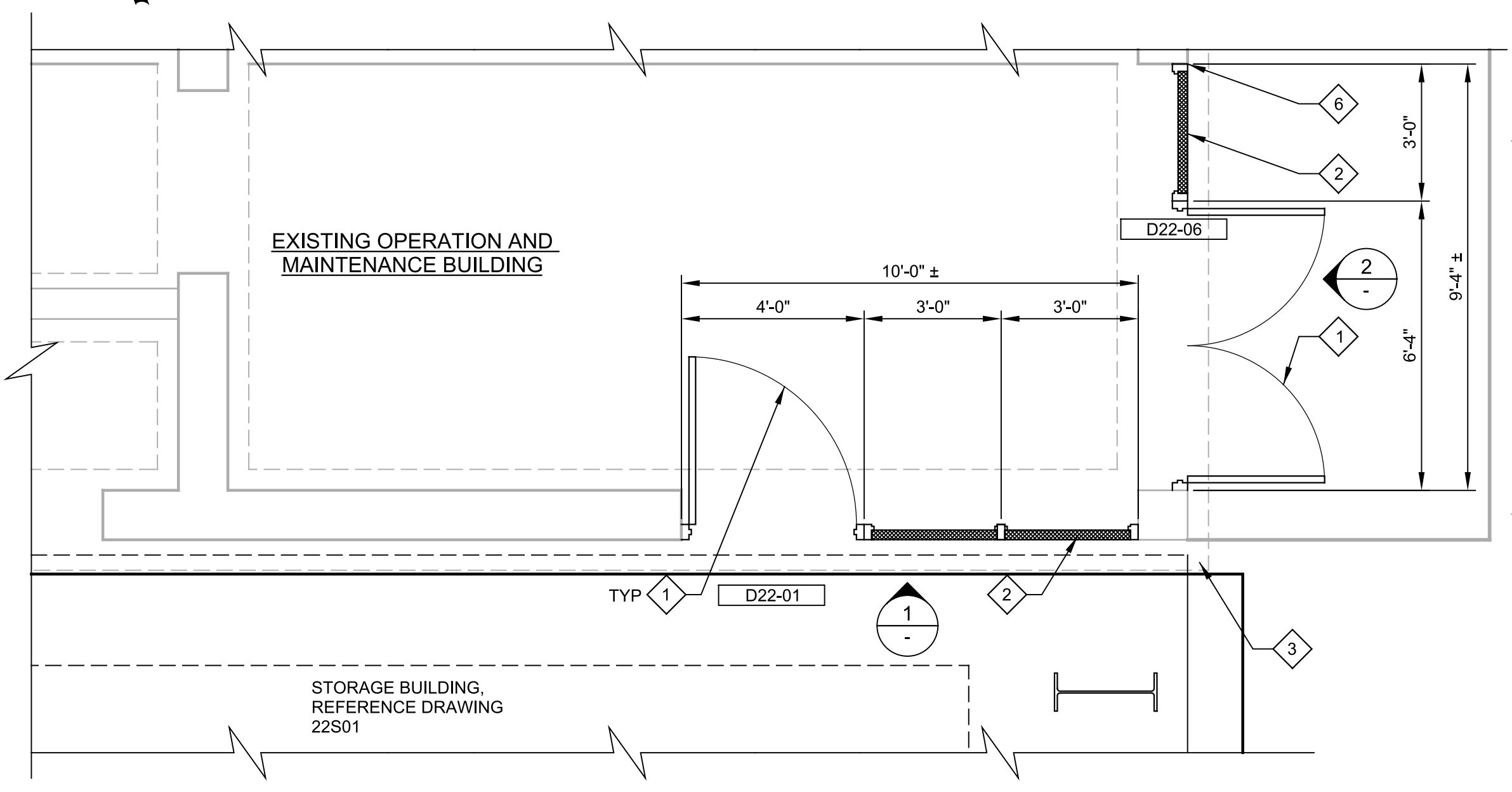
1. FOR EXTENT OF STRUCTURAL DETAILS, REFERENCE "S" DRAWINGS.
2. FOR EXTENT OF ELECTRICAL EQUIPMENT, REFERENCE "E" DRAWINGS.
3. FINAL ANODIZED COLOR SELECTION SHALL BE COORDINATED WITH OWNER FROM MANUFACTURERS STANDARD COLORS.

KEYNOTES:

1. ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS. REFERENCE SPECIFICATION SECTION 08412; AJ350/TYP.
2. 2.5" ALUMINUM INSULATED PANELS, REFERENCE SPECIFICATION SECTION 08412.
3. FLOOR EXPANSION JOINT COVER ALLOWING FOR FULL SEISMIC MOVEMENT BETWEEN EXISTING AND NEW CONSTRUCTION, 320 SERIES BY INPRO ARCHITECTURAL PRODUCTS OR EQUAL, SUBMITTED FOR ENGINEERS' REVIEW AND APPROVAL.
4. PROVIDE ALUMINUM DOOR FLUSH WITH FACE, INVERTED Y BLADE LOUVER. METAL SHALL BE THE SAME TYPE AS DOOR MATERIAL. SIZE SHALL BE AS SHOWN, WITH FILTER RACK ON INTERIOR OF THE DOOR, MINIMUM 1-INCH THICK, MATERIAL SHALL BE THE SAME AS THE DOOR MATERIAL. COORDINATE WITH HVAC FOR APPROVED FILTER AND REQUIREMENTS. SHALL BE SUBMITTED AS PART OF SPECIFICATION SECTION 08117 ALUMINUM FLUSH DOORS.
5. ALUMINUM DOOR AND FRAME WITH LOUVER. CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING FOR REVIEW.
6. CONTRACTOR SHALL FIELD VERIFY OPENING PRIOR TO BEGINNING WORK ON STOREFRONT ENTRANCE SYSTEM WITH INSULATED PANELS.

CODE ANALYSIS ABBREVIATION LIST:

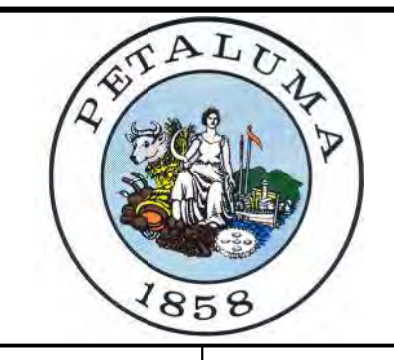
EXPO	EXPOSED MATERIAL
FT	FEET
F-1	FACTORY INDUSTRIAL GROUP, MODERATE HAZARD OCCUPANCY
HW	HARDWARE GROUP, REFERENCE SPECIFICATION SECTION 08710
MAT'L	MATERIAL
MDECK	METAL DECK, PER STRUCTURAL DRAWINGS
NR	NOT REQUIRED
PR	PAIR
R	REQUIRED
SQ FT	SQUARE FEET



REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
DRAWN
BCM
CHECKED
MEH
DATE
JANUARY 2023

Digitally signed by Eric J. Wilkins
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.07 09:52:45 -0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 ARCHITECTURAL
 MAINTENANCE AND STORAGE BUILDINGS
 DOOR SCHEDULE, PLAN, & ELEVATION

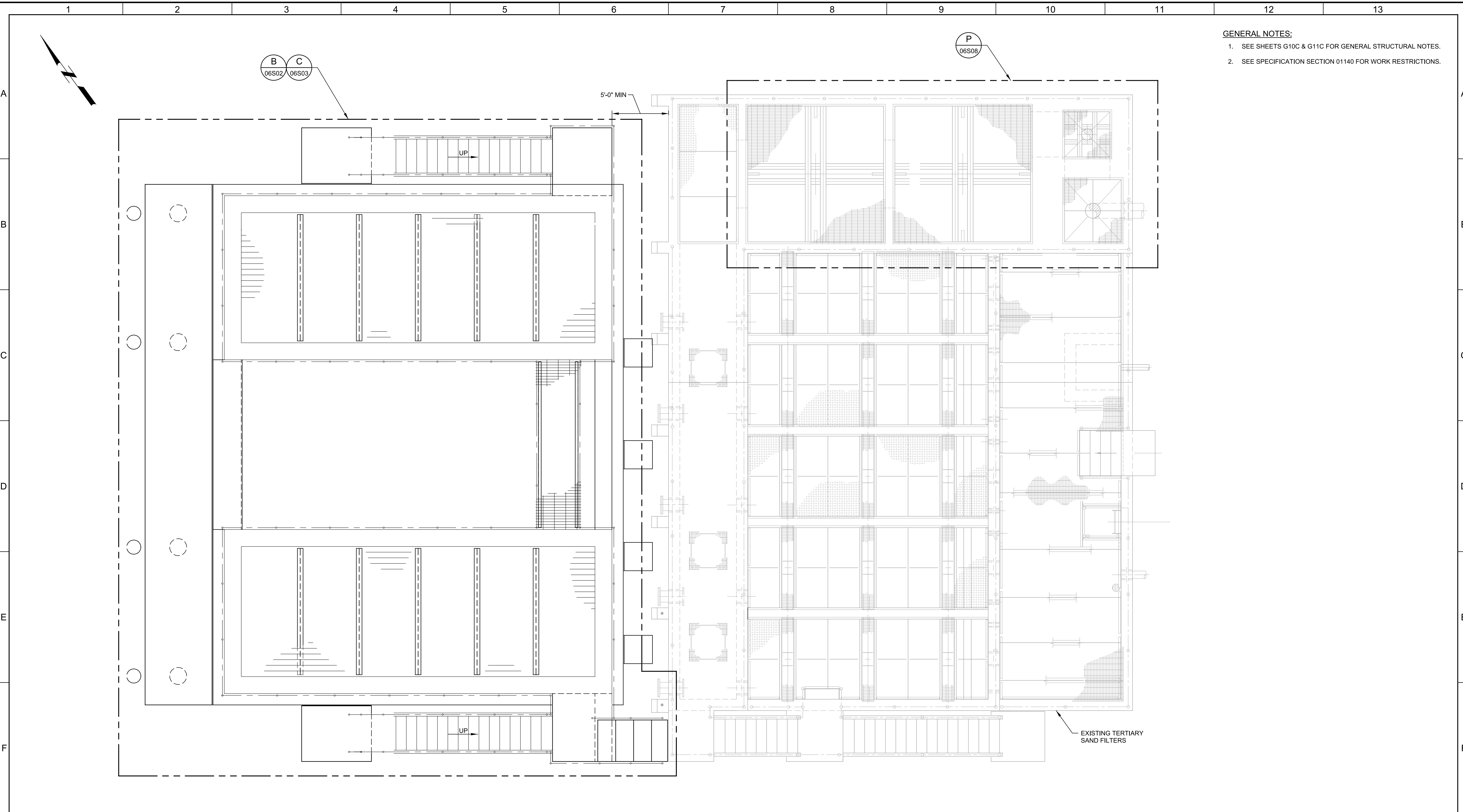
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 7310L.10 DRAWING NO. 22A01 SHEET NO. 52 OF 130
--	--

Plot Date: 03-APR-2023 1:59:18 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: luy



- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - SEE SPECIFICATION SECTION 01140 FOR WORK RESTRICTIONS.

A PLAN
 SCALE: 1/4" = 1'-0"
 FILE: 7310L1006S100

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
 DRAWN
JLG
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.07 09:42:19-0700

Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
**TERTIARY FILTERS
 KEY PLAN**

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

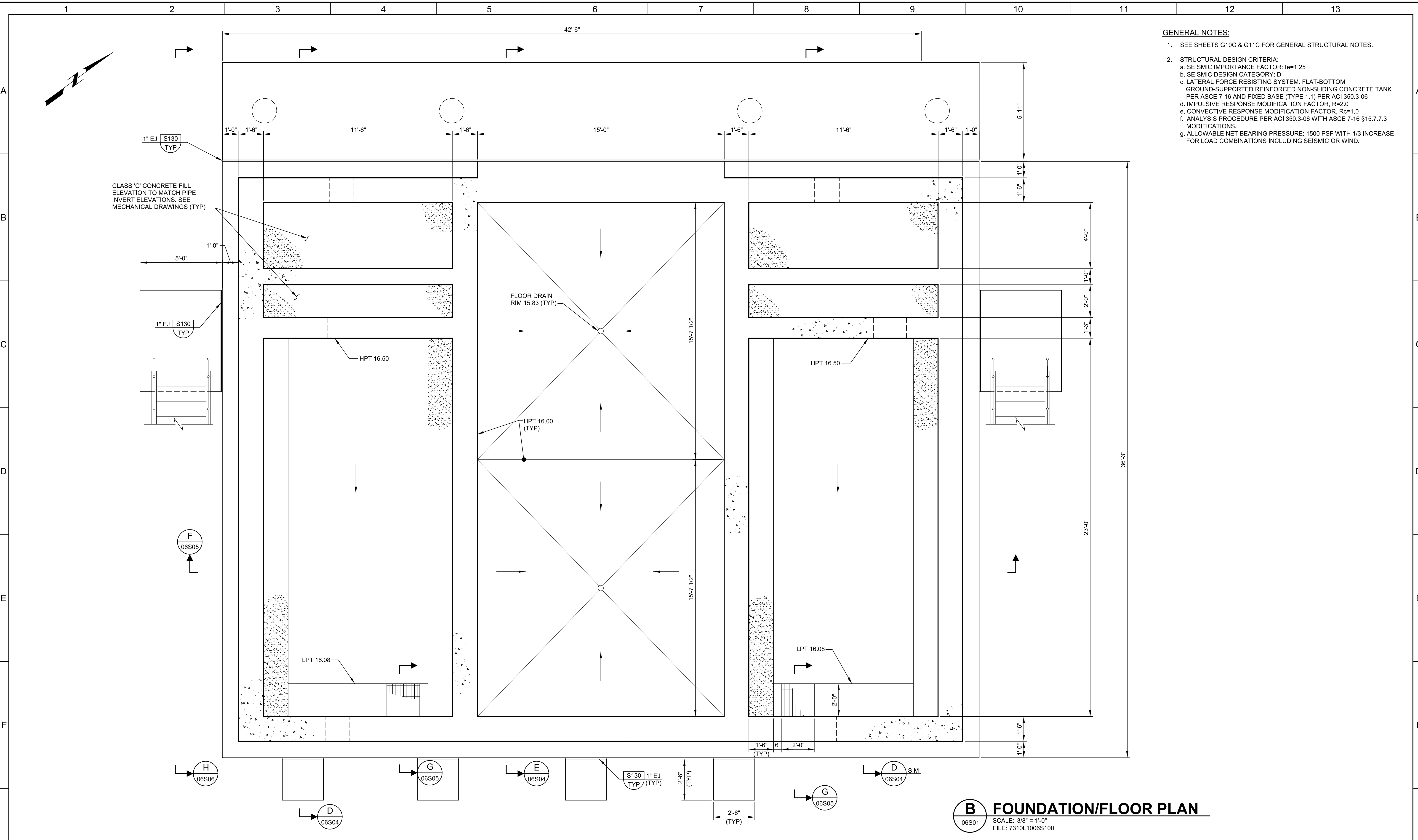
JOB NO.
7310L.10
 DRAWING NO.
06S01
 SHEET NO.
53 OF 130

Plot Date: 03-APR-2023 1:59:28 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: lumadhay



- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - STRUCTURAL DESIGN CRITERIA:
 - SEISMIC IMPORTANCE FACTOR: $I_e=1.25$
 - SEISMIC DESIGN CATEGORY: D
 - LATERAL FORCE RESISTING SYSTEM: FLAT-BOTTOM GROUND-SUPPORTED REINFORCED NON-SLIDING CONCRETE TANK PER ASCE 7-16 AND FIXED BASE (TYPE 1.1) PER ACI 350.3-06
 - IMPULSIVE RESPONSE MODIFICATION FACTOR, $R=2.0$
 - CONVECTIVE RESPONSE MODIFICATION FACTOR, $R_c=1.0$
 - ANALYSIS PROCEDURE PER ACI 350.3-06 WITH ASCE 7-16 §15.7.7.3 MODIFICATIONS.
 - ALLOWABLE NET BEARING PRESSURE: 1500 PSF WITH 1/3 INCREASE FOR LOAD COMBINATIONS INCLUDING SEISMIC OR WIND.

B FOUNDATION/FLOOR PLAN
06S01 SCALE: 3/8" = 1'-0"
FILE: 7310L1006S100

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
DRAWN
JLG
CHECKED
JAD
DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.07 08:42:59-0700

Eric Wilkins



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
STRUCTURAL
TERTIARY FILTERS 6 & 7
FOUNDATION/ FLOOR PLAN

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

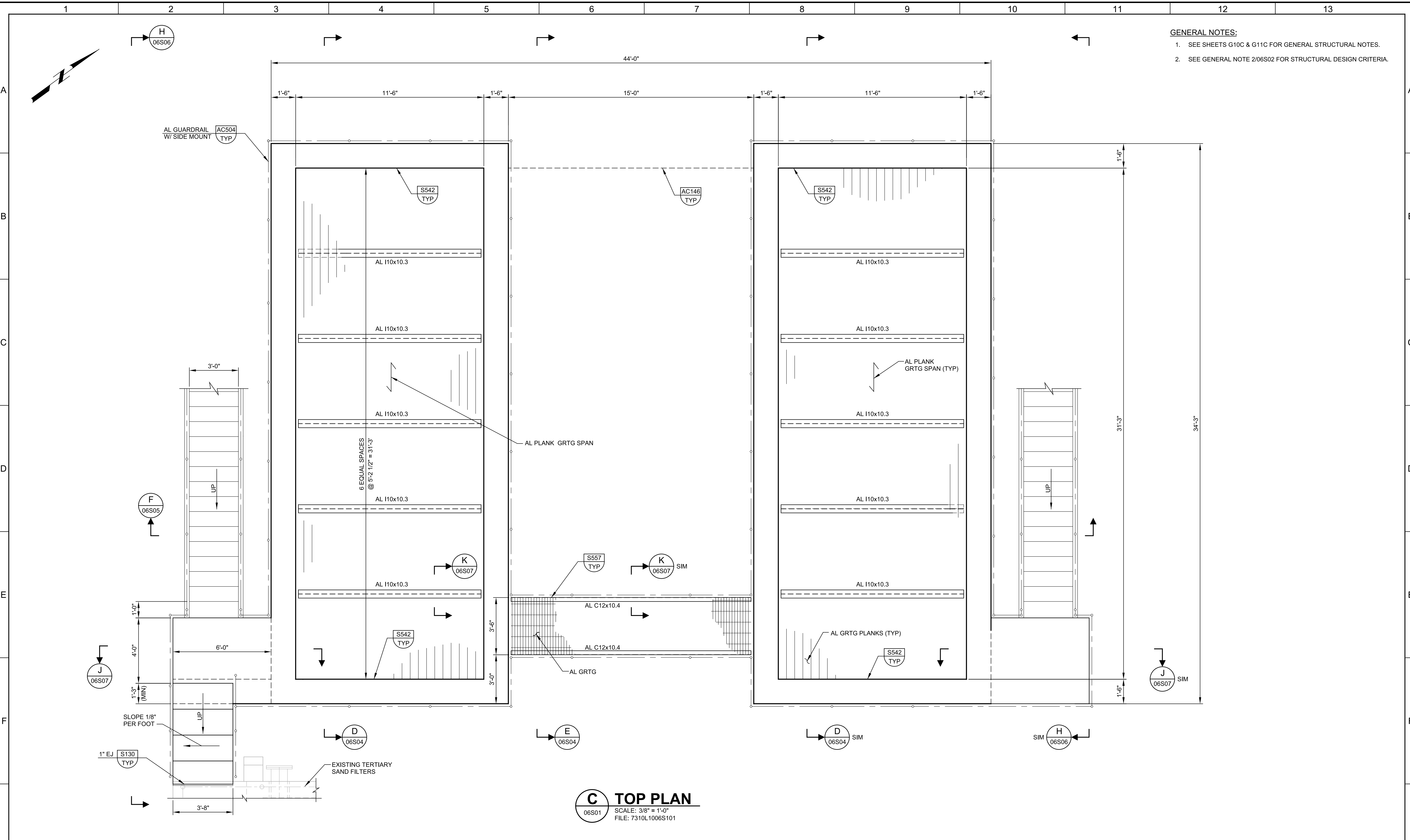
JOB NO.
7310L.10
DRAWING NO.
06S02
SHEET NO.
54 OF 130

Plot Date: 03-APR-2023 1:58:47 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: lumadhay



- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - SEE GENERAL NOTE 2/06S02 FOR STRUCTURAL DESIGN CRITERIA.

C TOP PLAN
 06S01 SCALE: 3/8" = 1'-0"
 FILE: 7310L1006S101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED EJW	
DRAWN JLG	
CHECKED JAD	
DATE JANUARY 2023	

Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.01.07 08:43:29-0700

Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
 TERTIARY FILTERS 6 & 7
 TOP PLAN

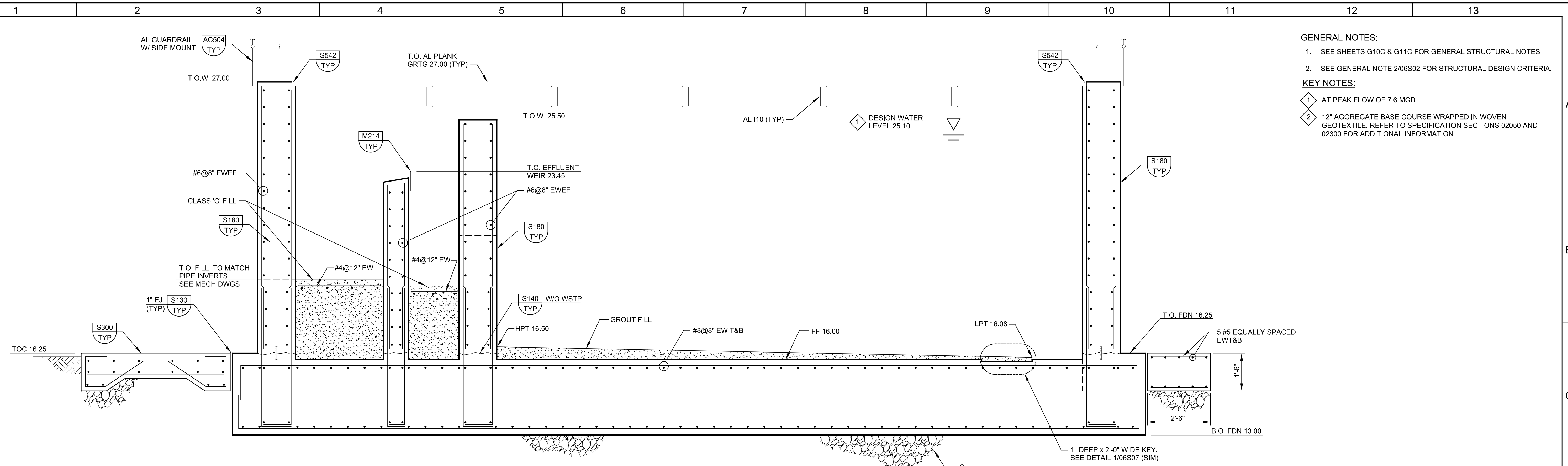
VERIFY SCALES	JOB NO. 7310L.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 06S03
0 1"	SHEET NO. 55 OF 130
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Plot Date: 03-APR-2023 1:58:42 PM

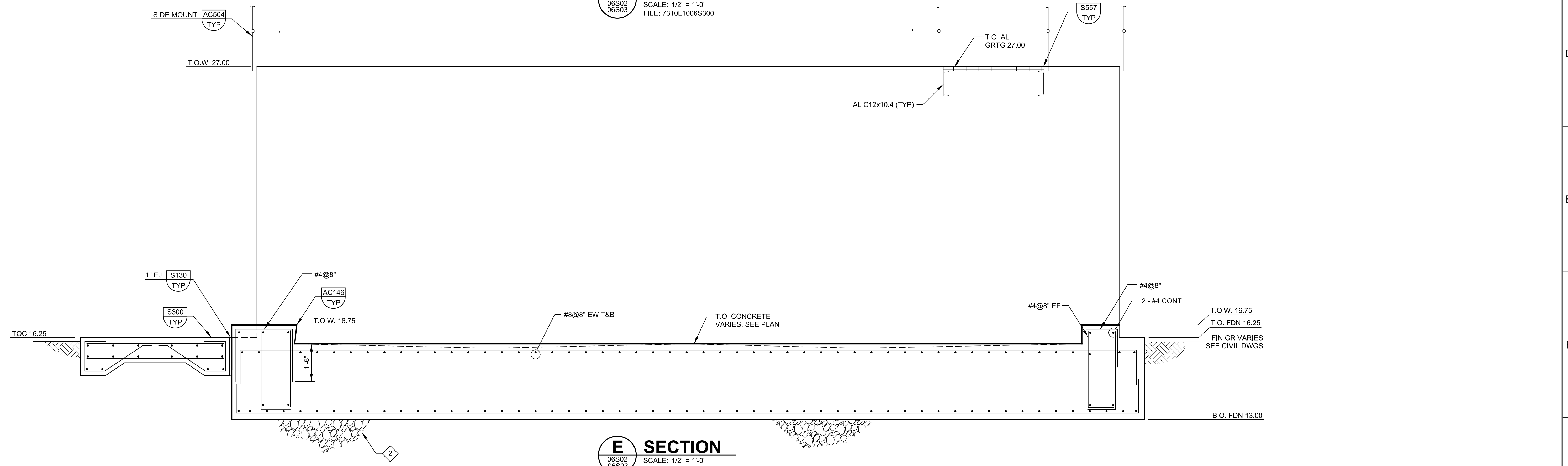
User: swcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sig_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: lumadhay



D SECTION
 06S02 SCALE: 1/2" = 1'-0"
 06S03 FILE: 7310L1006S300



E SECTION
 06S02 SCALE: 1/2" = 1'-0"
 06S03 FILE: 7310L1006S300

- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - SEE GENERAL NOTE 2/06S02 FOR STRUCTURAL DESIGN CRITERIA.
- KEY NOTES:**
- AT PEAK FLOW OF 7.6 MGD.
 - 12" AGGREGATE BASE COURSE WRAPPED IN WOVEN GEOTEXTILE. REFER TO SPECIFICATION SECTIONS 02050 AND 02300 FOR ADDITIONAL INFORMATION.

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
EJW
 DRAWN
JLG
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.27 08:43:29-0700

Eric Wilkins

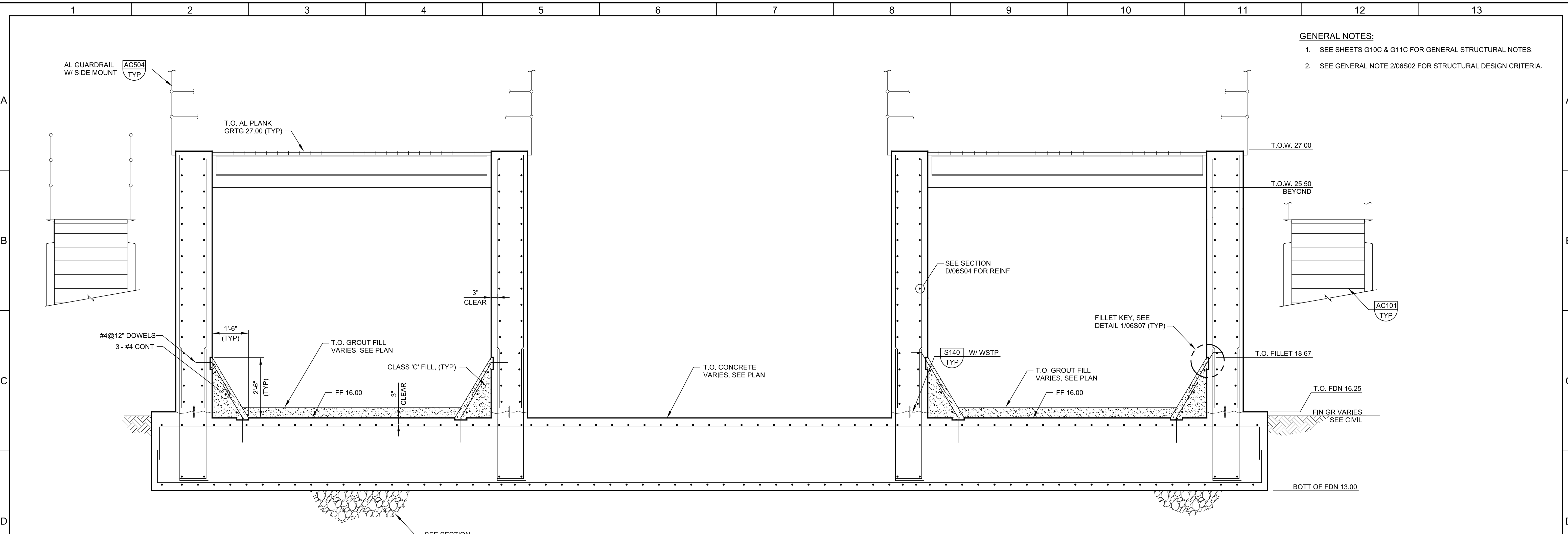


CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
 TERTIARY FILTERS 6 & 7
 SECTIONS

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

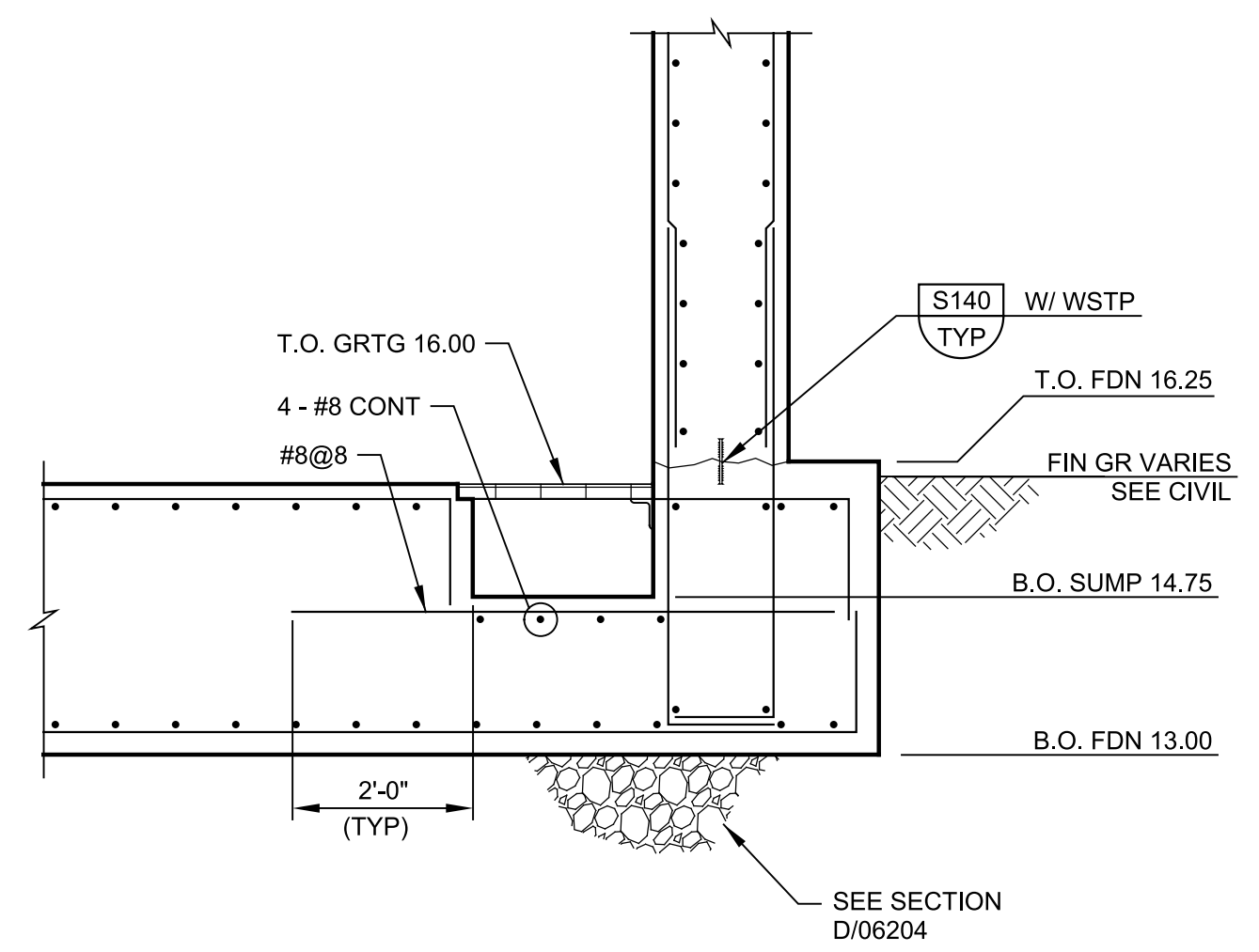
JOB NO.
7310L.10
 DRAWING NO.
06S04
 SHEET NO.
56 OF 130

Plot Date: 03-APR-2023 1:58:31 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sid_Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: lumadhay



- GENERAL NOTES:**
1. SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 2. SEE GENERAL NOTE 2/06S02 FOR STRUCTURAL DESIGN CRITERIA.

F SECTION
06S02 SCALE: 1/2" = 1'-0"
06S03 FILE: 7310L1006S300



G SECTION
06S02 SCALE: 1/2" = 1'-0"
06S03 FILE: 7310L1006S300

REV	DATE	BY	DESCRIPTION

DESIGNED EJW
DRAWN JLG
CHECKED JAD
DATE JANUARY 2023



Digitally signed by Eric J. Wilkins
Contact Info: Carollo Engineers, Inc.
Date: 2023.04.07 09:44:29-0700



CITY OF PETALUMA
FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
STRUCTURAL
TERTIARY FILTERS 6 & 7
SECTIONS

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 7310L.10 DRAWING NO. 06S05 SHEET NO. 57 OF 130
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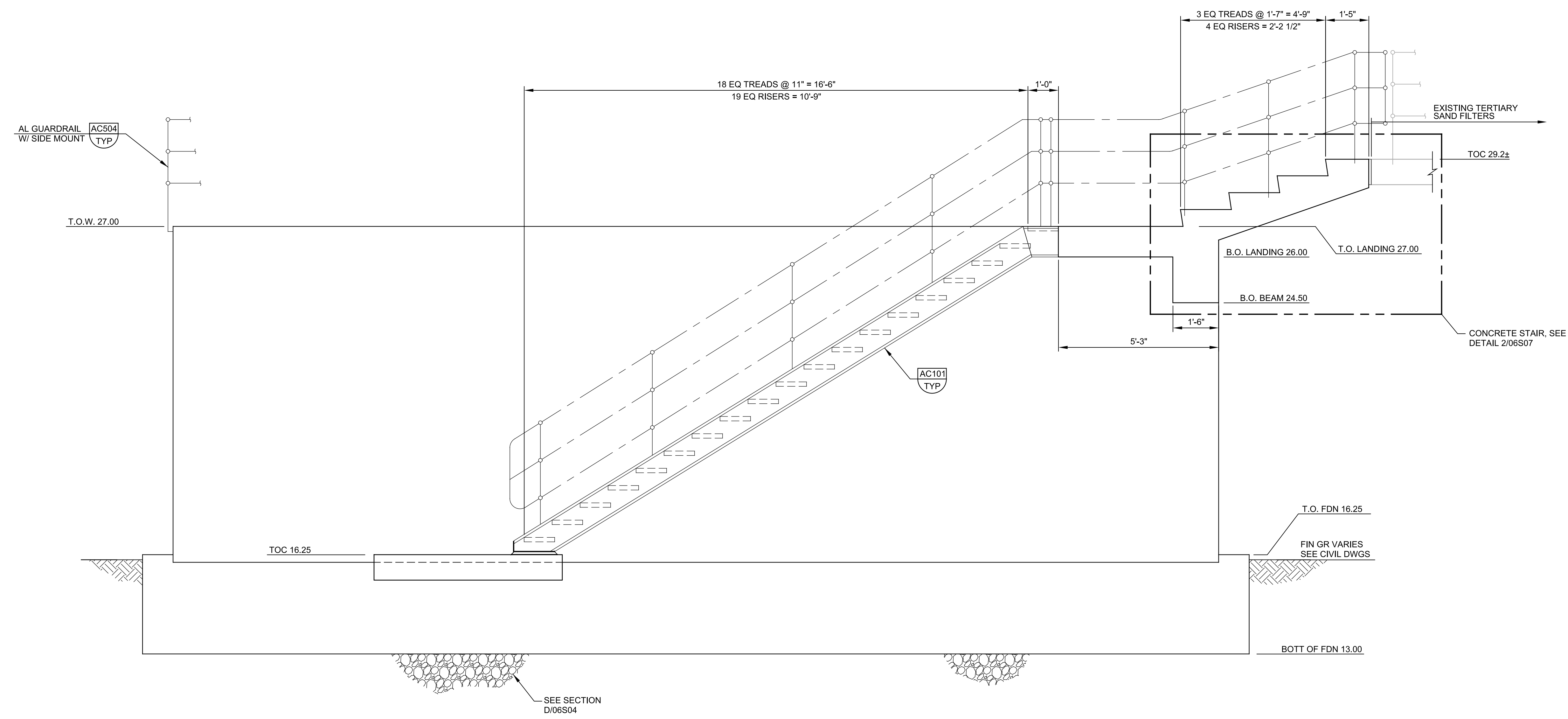
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User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: lumadhay

- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - SEE GENERAL NOTE 2/06S02 FOR STRUCTURAL DESIGN CRITERIA.



H SECTION
 SCALE: 1/2" = 1'-0"
 FILE: 7310L1006S300

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
 DRAWN
JLG
 CHECKED
JAD
 DATE
JANUARY 2023



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 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.07 08:41:40 -0700
Eric Wilkins

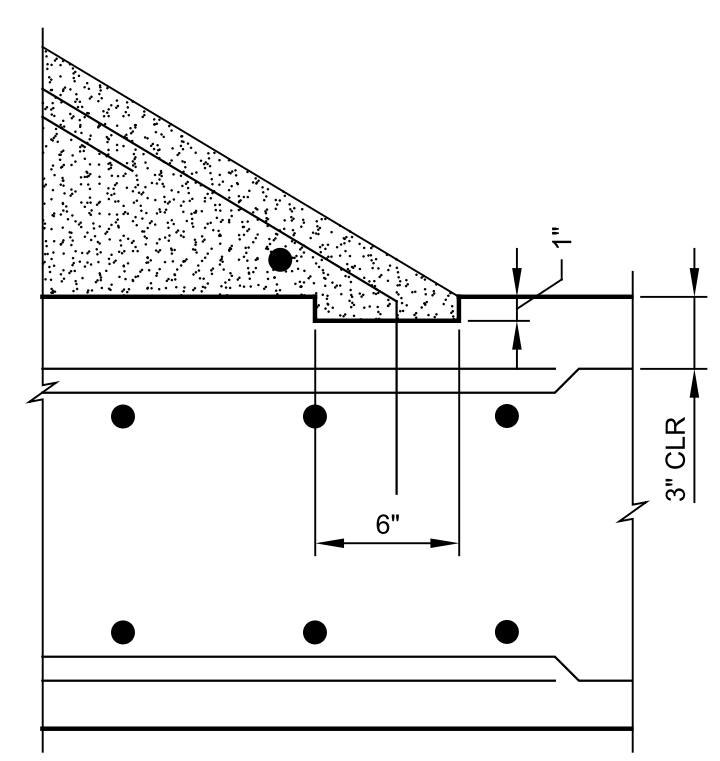


CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
TERTIARY FILTERS 6 & 7 SECTION

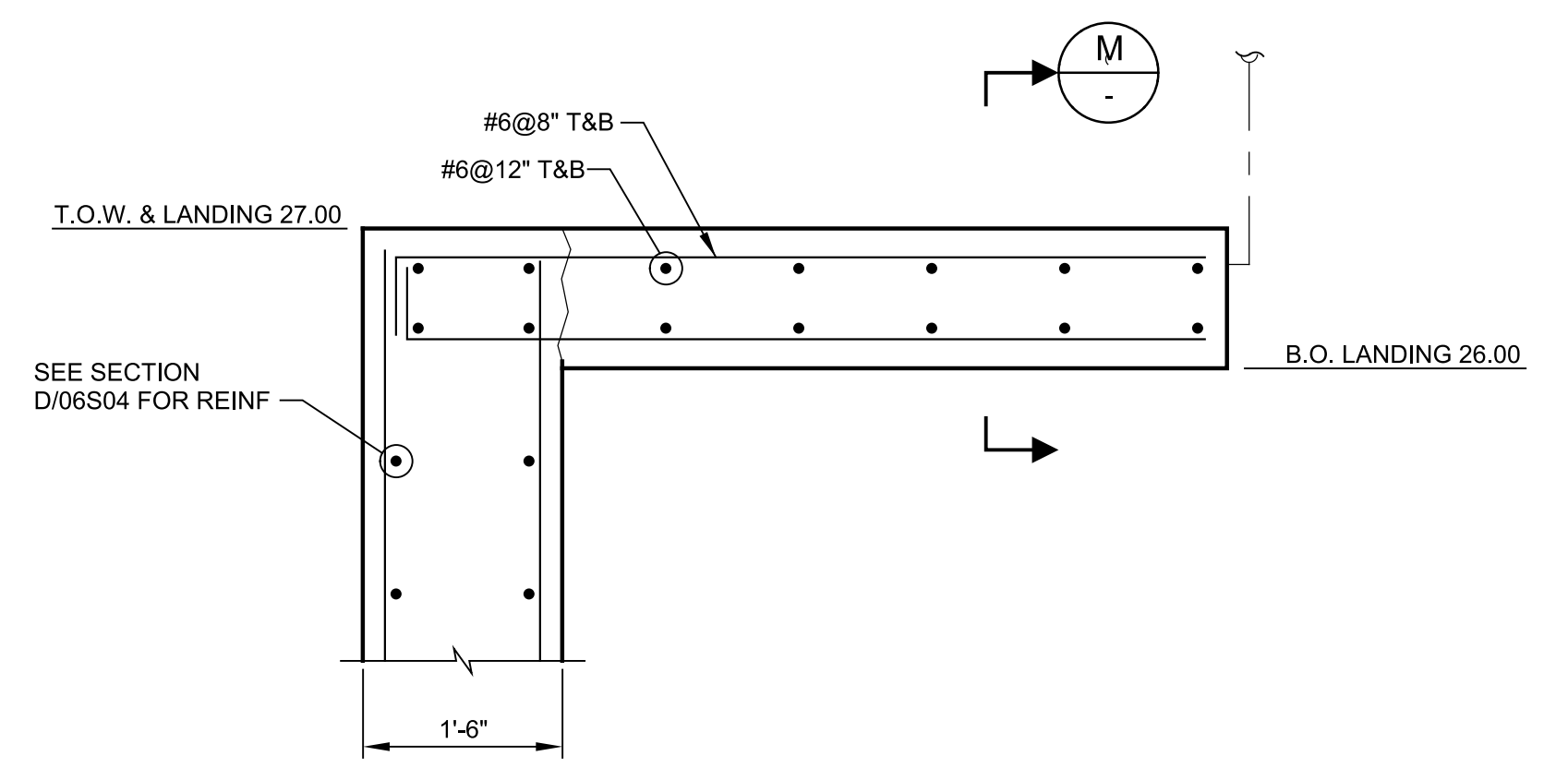
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
7310L.10
 DRAWING NO.
06S06
 SHEET NO.
58 OF 130

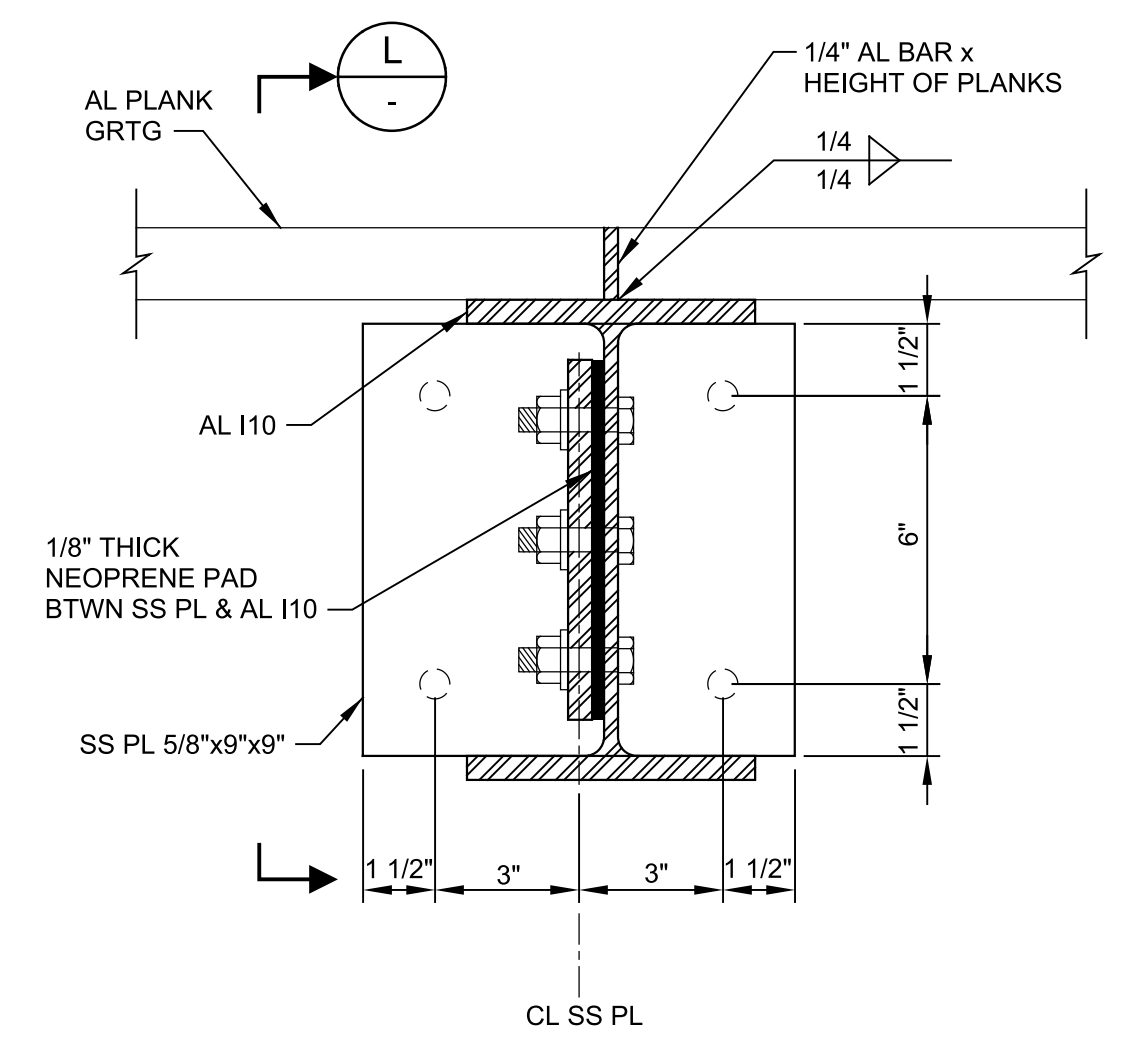
Plot Date: 03-APR-2023 1:59:31 PM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: luy



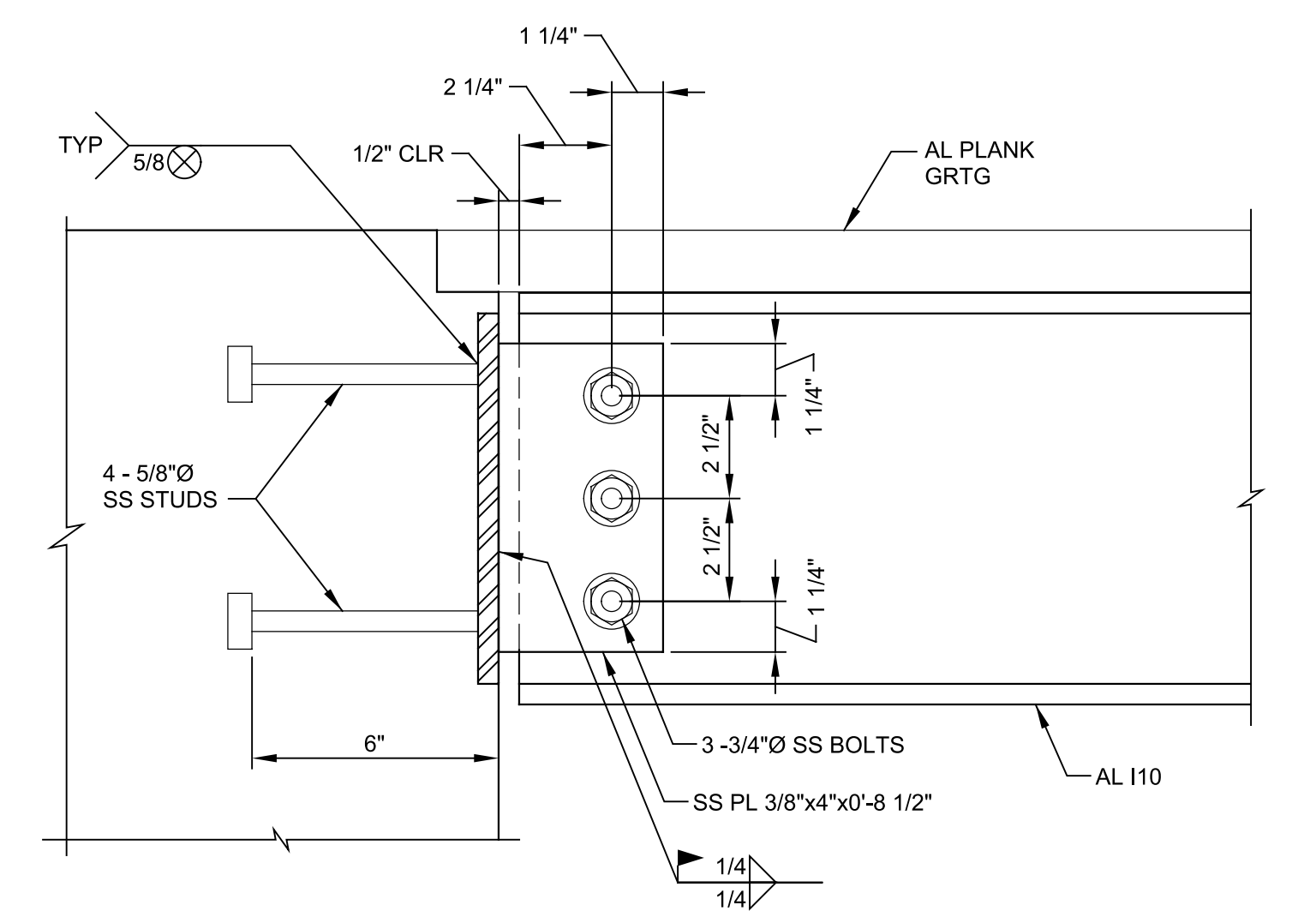
1 DETAIL
 06S05 SCALE: 1 1/2" = 1'-0"
 FILE: 7310L1006S300



J SECTION
 06S03 SCALE: 3/4" = 1'-0"
 FILE: 7310L1006S400

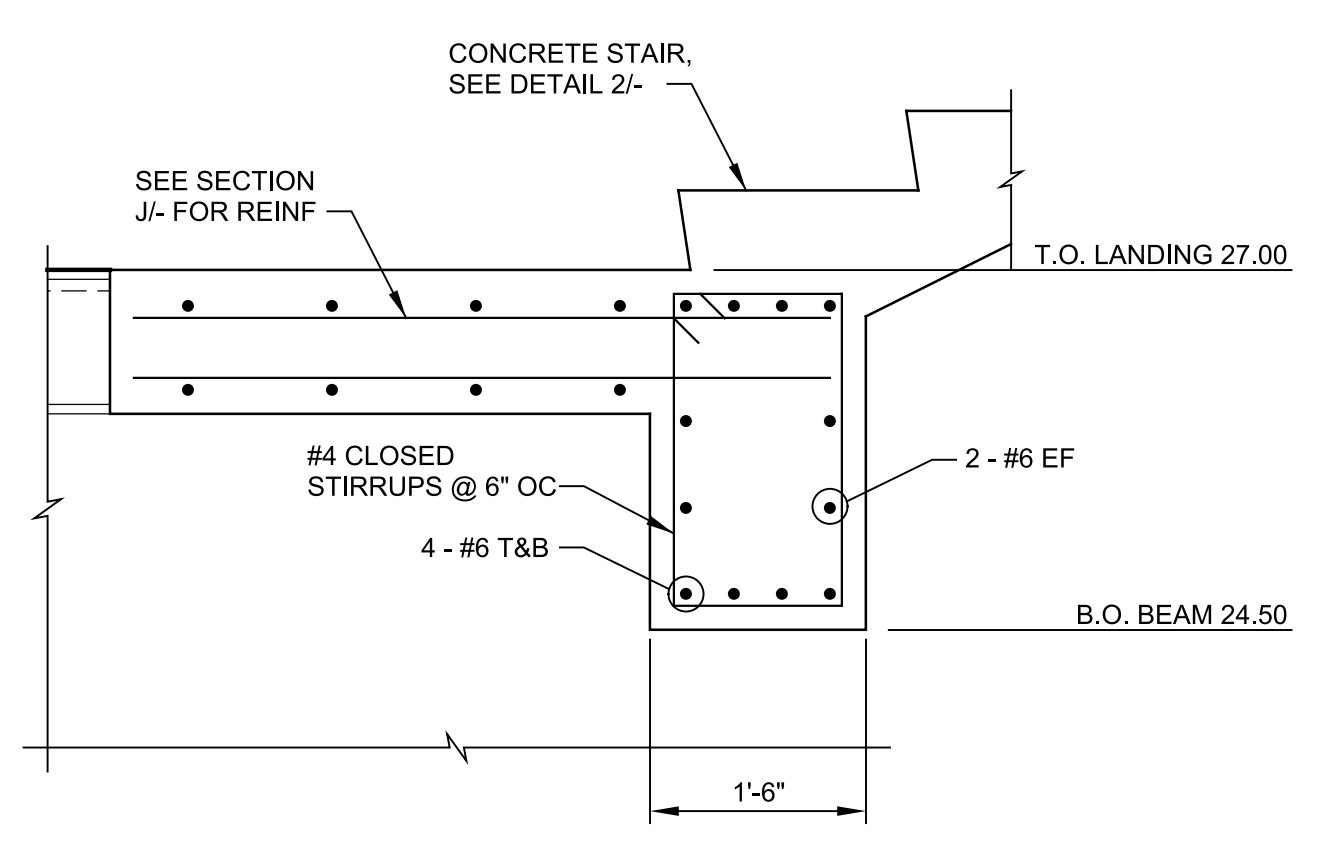


K SECTION
 06S03 SCALE: 3" = 1'-0"
 FILE: 7310L1006S400



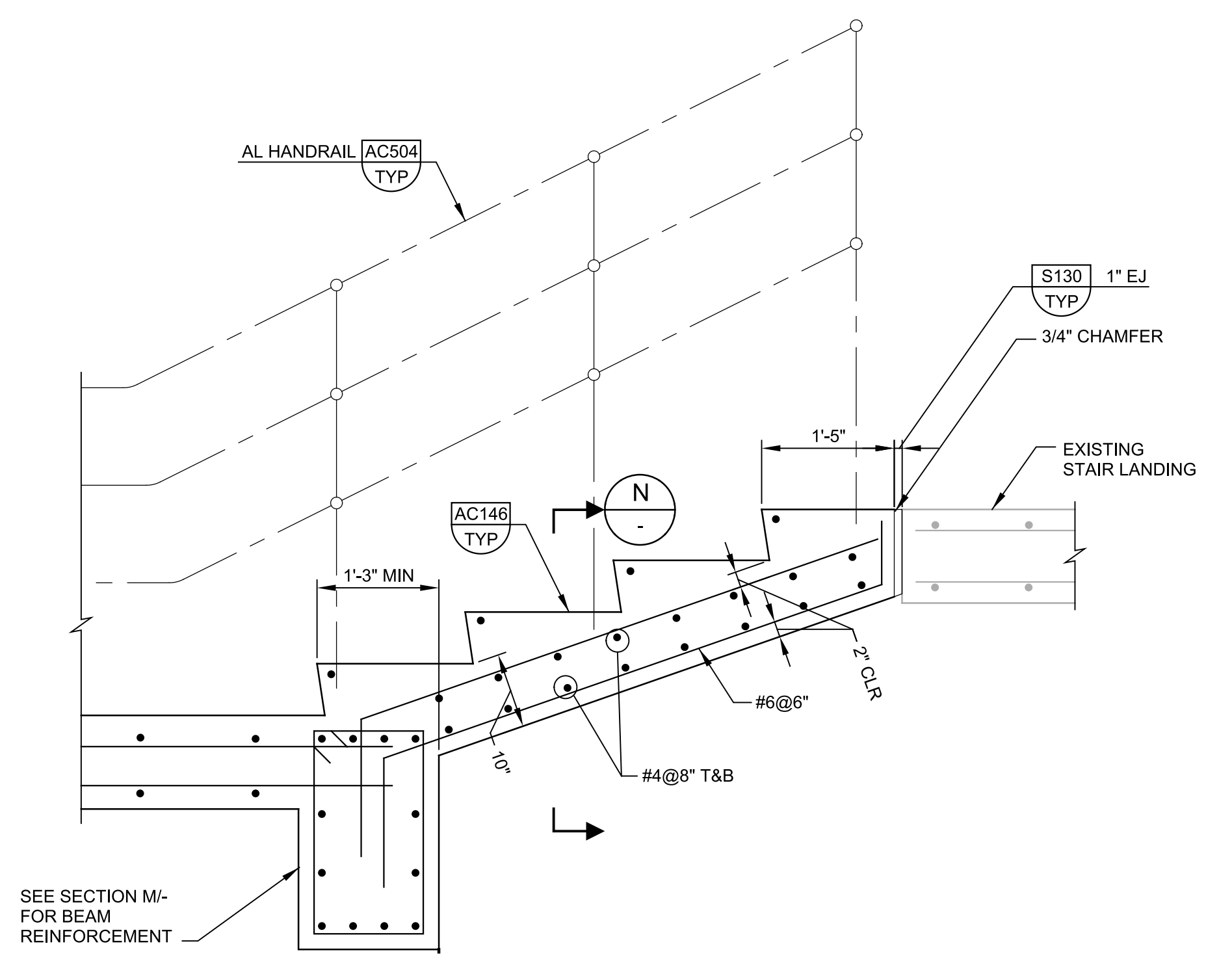
L SECTION
 06S03 SCALE: 3" = 1'-0"
 FILE: 7310L1006S400

GENERAL NOTES:
 1. SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 2. SEE GENERAL NOTE 2/06S02 FOR STRUCTURAL DESIGN CRITERIA.

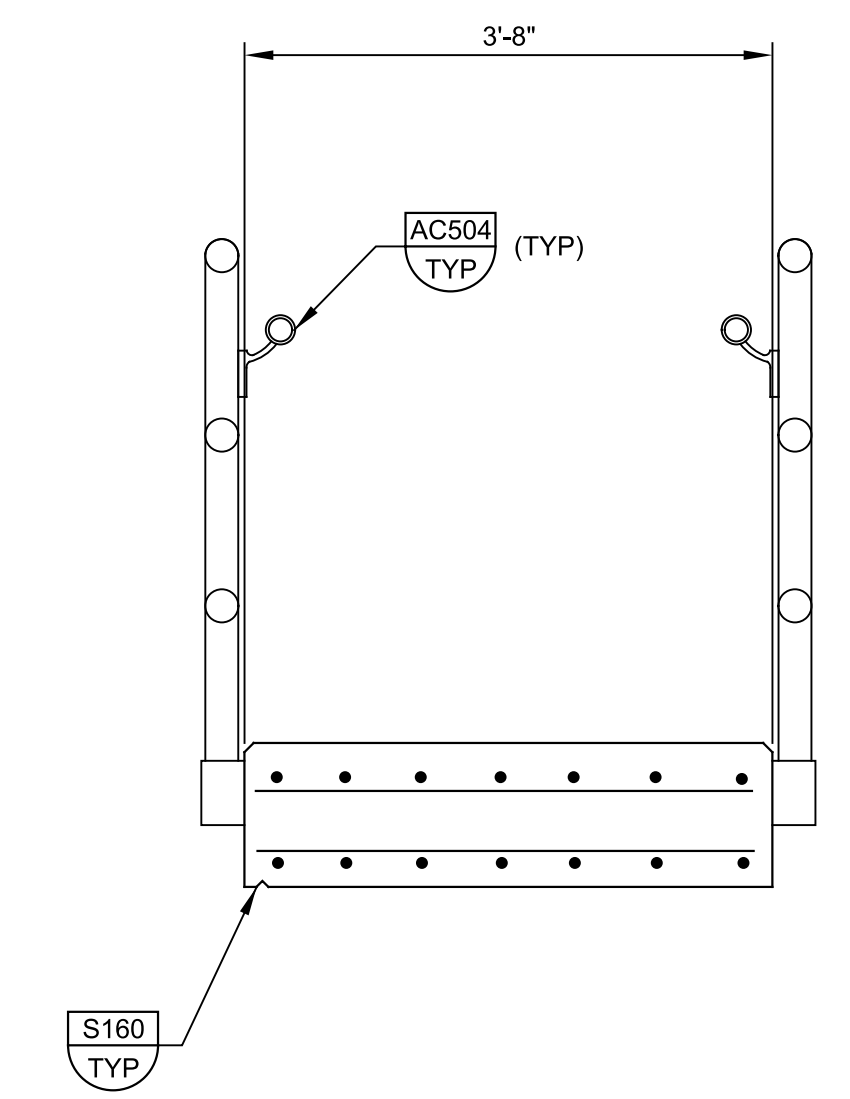


M SECTION
 SCALE: 3/4" = 1'-0"
 FILE: 7310L1006S400

NOTE:
 EXTEND BEAM REINFORCEMENT A
 MINIMUM 4'-0" INTO FILTER BASIN WALL.



2 DETAIL
 06S06 SCALE: 3/4" = 1'-0"
 FILE: 7310L1006S400

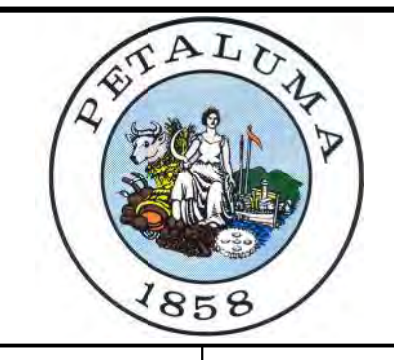


N SECTION
 06S03 SCALE: 3/4" = 1'-0"
 FILE: 7310L1006S400

REV	DATE	BY	DESCRIPTION

DESIGNED EJW	
DRAWN JLG	
CHECKED JAD	
DATE JANUARY 2023	

Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.07 08:47:30-0700



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
**TERTIARY FILTERS 6 & 7
 SECTIONS AND DETAILS**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 7310L.10 DRAWING NO. 06S07 SHEET NO. 59 OF 130
--	--

Plot Date: 03-APR-2023 1:59:10 PM

User: svcPW

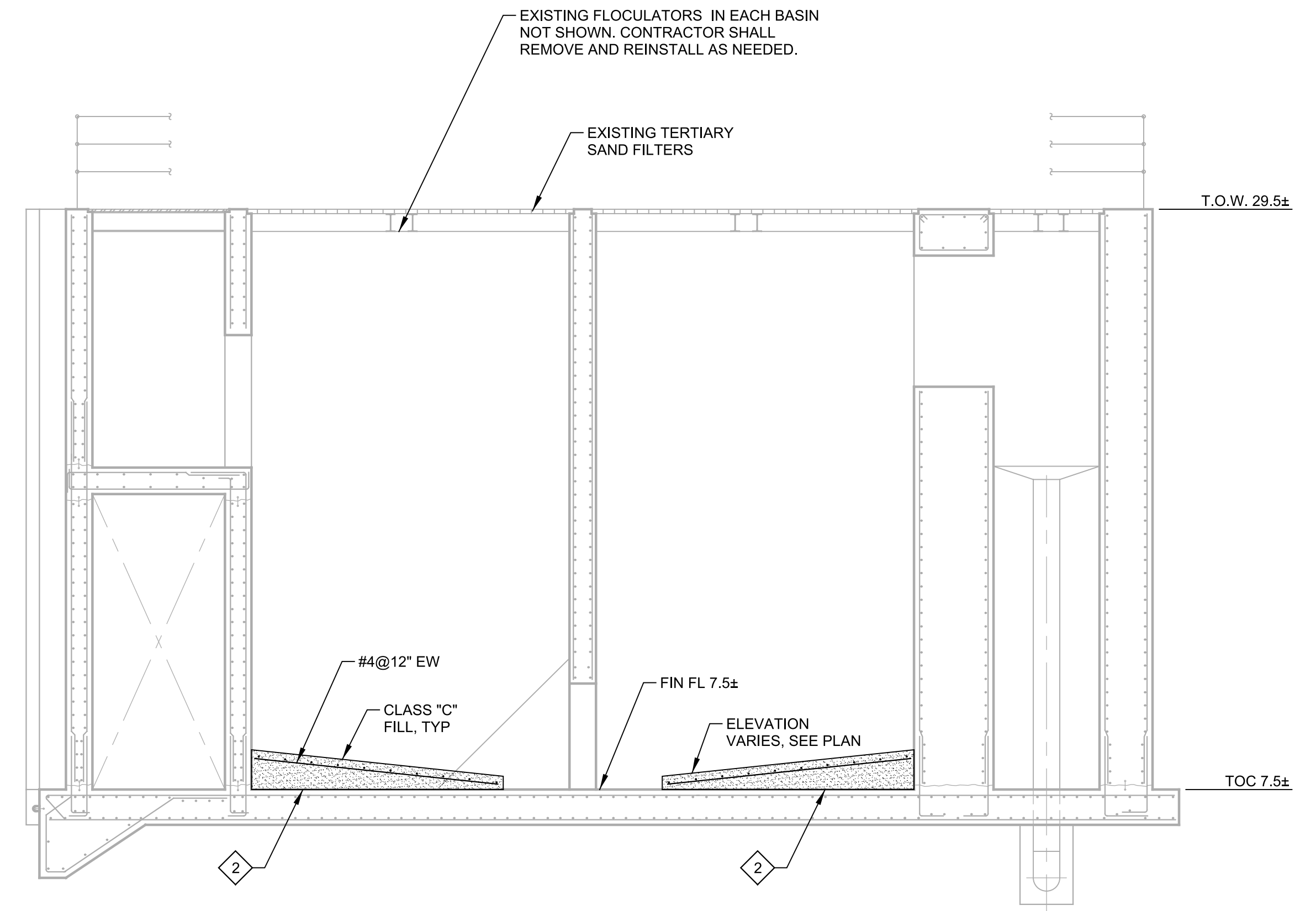
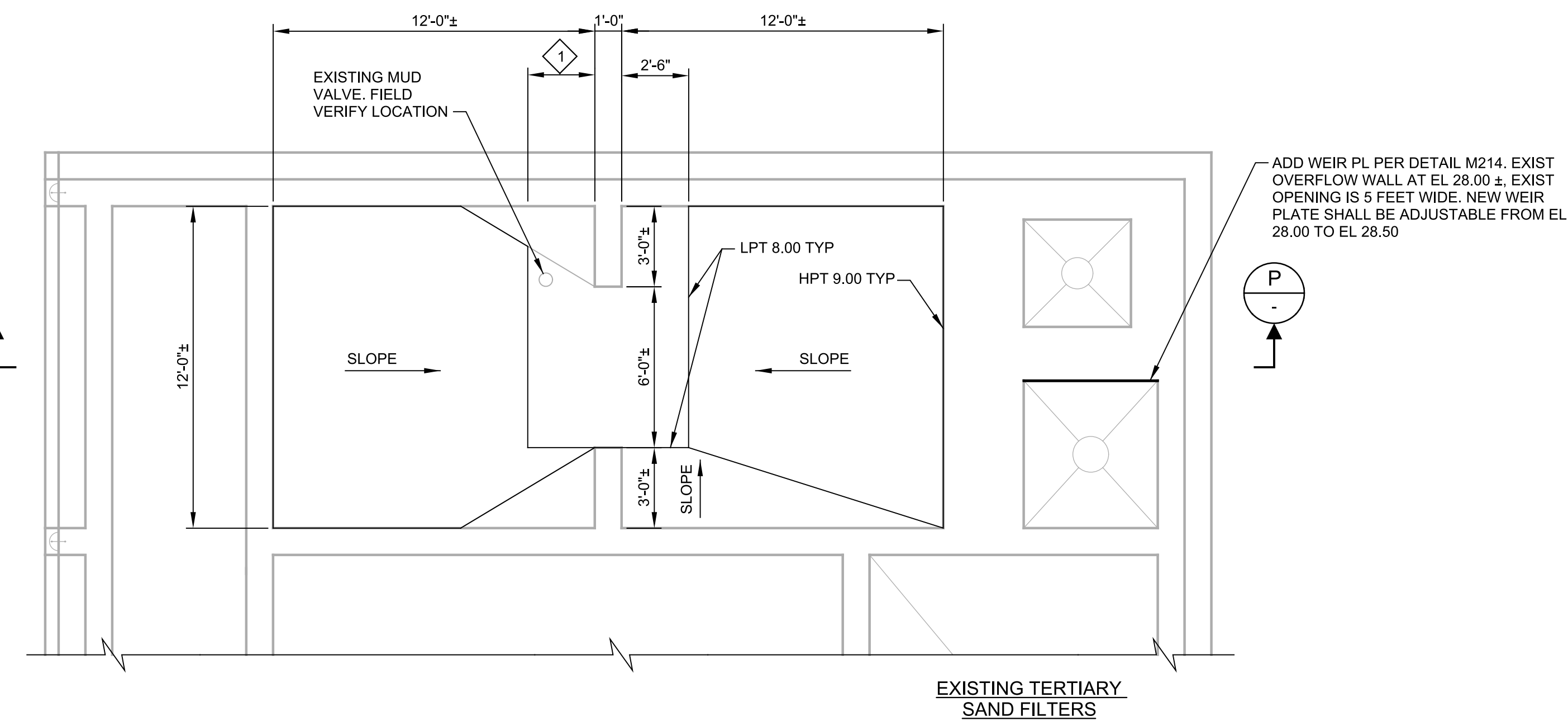
PlotScale: 1:1

DesignScript: Carollo_Sld_Pen_v0905.pen

ColorTable: gshade.ctb

Model: Layout1 ColorTable: gshade.ctb

- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - DIMENSIONS SHOWN ARE BASED OFF THE RECORD DRAWINGS TITLED "ELLIS CREEK WATER RECYCLING FACILITY PROJECT" BY CAROLLO ENGINEERS DATED JULY 2005. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INITIATION OF CONSTRUCTION.
- KEY NOTES:**
- 2'-6" MINIMUM. INCREASE AS REQUIRED TO MAINTAIN MINIMUM 1'-3" DIMENSION BETWEEN CENTERLINE OF EXISTING 6" MUD VALVE AND EDGE OF CONCRETE FILL.
 - ROUGHEN SURFACE TO 1/4" AMPLITUDE. REMOVE ALL SIGNS OF OIL, DIRT AND LAITANCE AND APPLY EPOXY BONDING COMPOUND PRIOR TO PLACING CLASS 'C' CONCRETE FILL. EPOXY BONDING COMPOUND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.



P PARTIAL BOTTOM PLAN
 06S01 SCALE: 1/4" = 1'-0"
 FILE: 7310L1006S103

P SECTION
 SCALE: 1/4" = 1'-0"
 FILE: 7310L1006S302

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
 DRAWN
JLG
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact info: Carollo Engineers, Inc.
 Date: 2023.04.07 08:47:16-0700

Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
**FLOCCULATION TANK
 PLAN & SECTION**

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

JOB NO.
7310L.10
 DRAWING NO.
06S08
 SHEET NO.
60 OF 130

Plot Date: 03-APR-2023 1:58:57 PM

User: svcPW

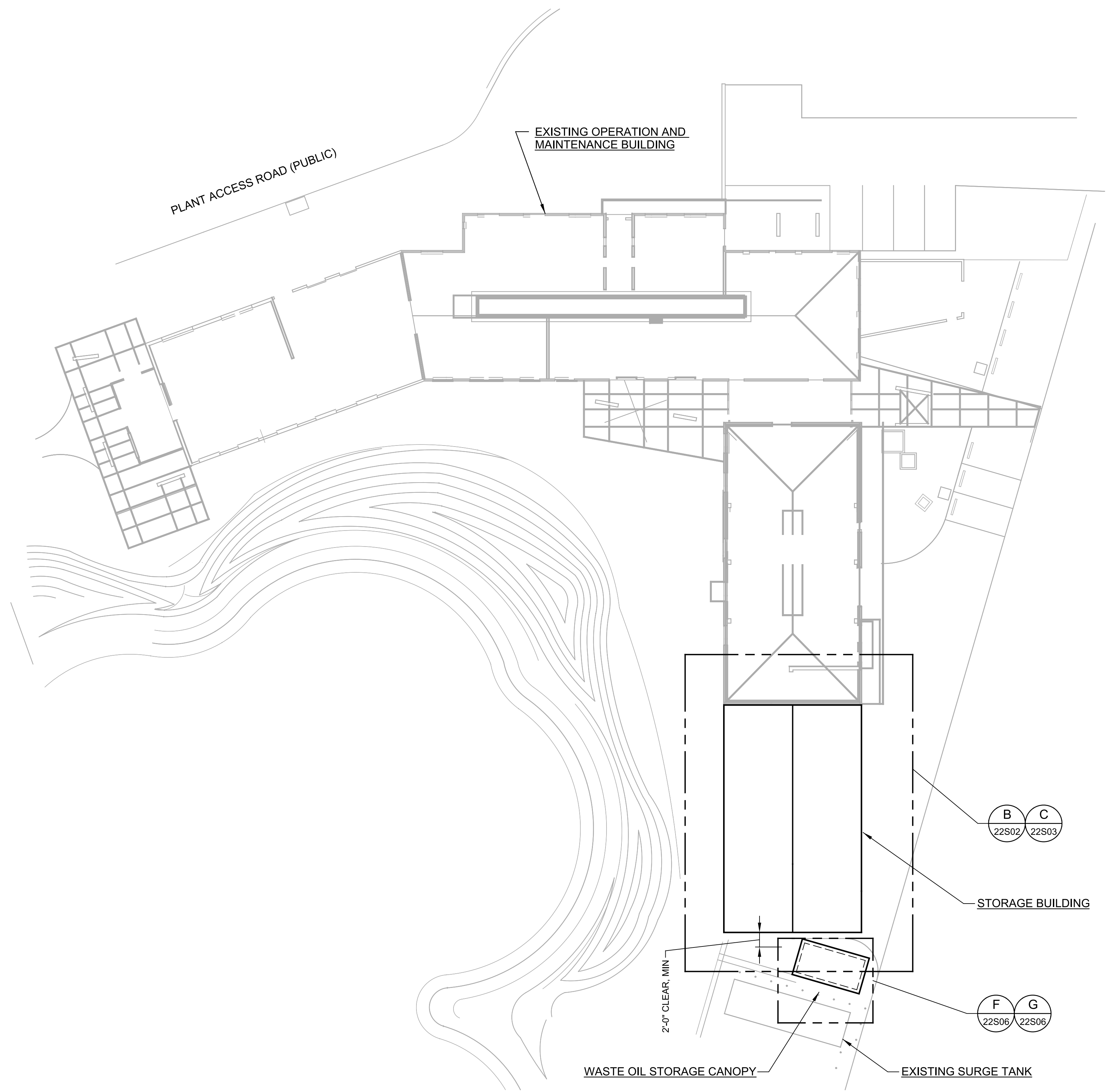
PlotScale: 1:1

DesignScript: Carollo_Sig_Pen_v0905.pen

ColorTable: gshade.ctb

LAST SAVED BY: luy

GENERAL NOTES:
1. SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.



A KEY PLAN
 SCALE: 1"=20'-0"
 FILE: 7310L1022S100

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
 DRAWN
DPF
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Email: ewilkins@carollo.com

Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
 MAINTENANCE AND STORAGE BUILDINGS
 KEY PLAN

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

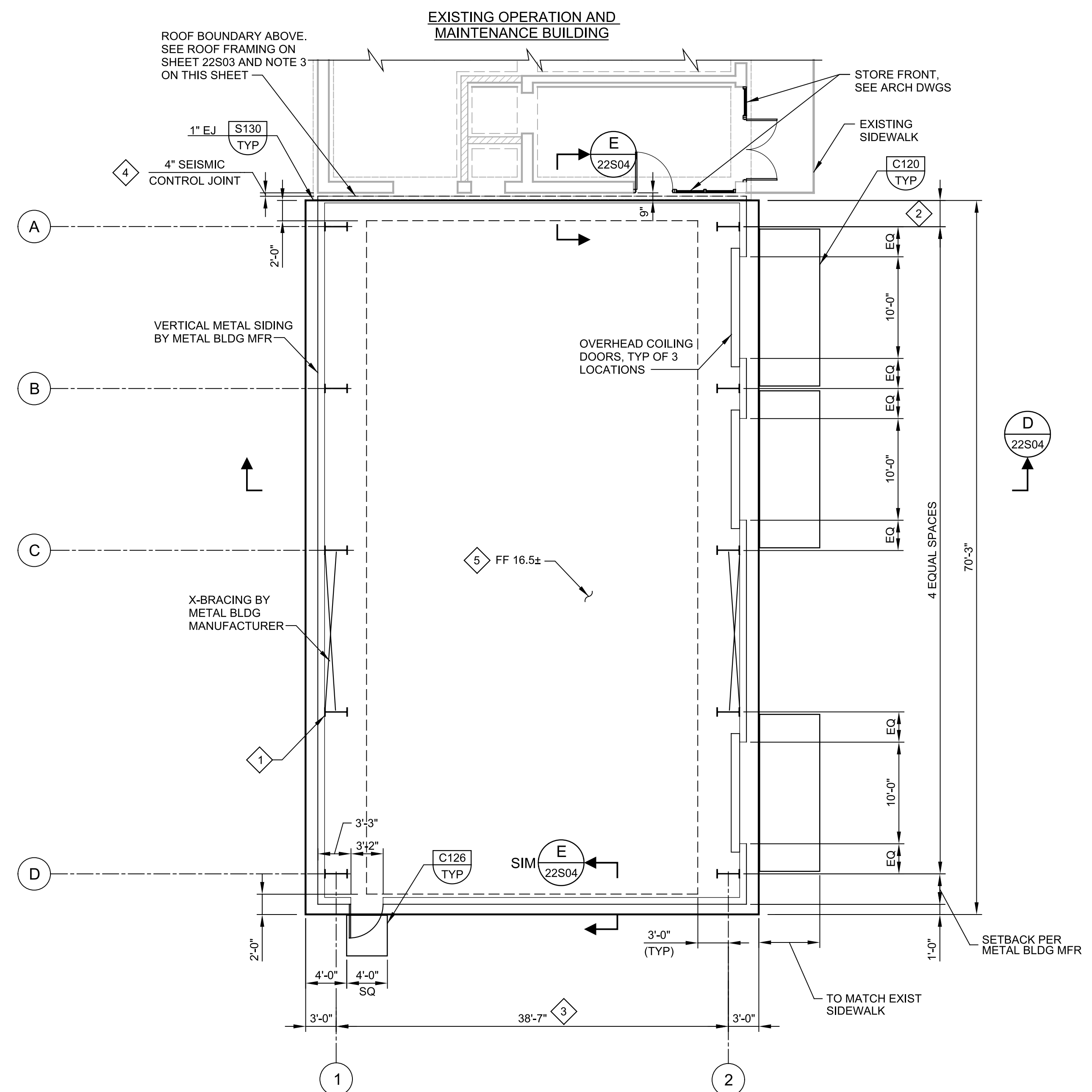
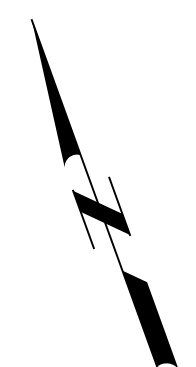
JOB NO.
7310L.10
 DRAWING NO.
22S01
 SHEET NO.
61 OF 130

Plot Date: 31-MAR-2023 9:27:06 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: KAlkin



B FOUNDATION PLAN
 22S01 SCALE: 1/8" = 1'-0"
 FILE: 7310L1022S100

- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - DIMENSIONS SHOWN ARE BASED OFF THE RECORD DRAWINGS TITLED "ELLIS CREEK WATER RECYCLING FACILITY PROJECT" BY CAROLLO ENGINEERS DATED JULY 2005. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - STORAGE BUILDING SHALL HAVE NO WALL SIDING ON THE NORTH END AND SHALL BE OPEN TO THE EXISTING O&M BUILDING.
 - PRELIMINARY BUILDING FOUNDATION DIMENSIONS AND REINFORCEMENTS ARE SHOWN ON THIS SHEET. FINAL DIMENSIONS AND REINFORCEMENT SHALL BE COORDINATED WITH THE ACTUAL BUILDING LOADS AS DETERMINED FROM THE APPROVED PRE-ENGINEERED METAL BUILDING SUBMITTAL.
 - THE PRE-ENGINEERED METAL BUILDING SHALL HAVE THE FOLLOWING MINIMUM STRUCTURAL DESIGN CRITERIA PER CBC 2019 AND ASCE 7-16:
 - A. E-W SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY MOMENT FRAME WITH RESPONSE MODIFICATION FACTOR, R= 3 1/2
 - B. N-S SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY CONCENTRICALLY BRACED FRAMES, R = 3 1/4
 - C. MAXIMUM SEISMIC DRIFT PERPENDICULAR TO PORTAL FRAMES (N-S DIRECTION): H/250 WHERE H IS MEASURED AT RIDGE.
 - D. ROOF LIVE LOAD: 20 PSF
 - E. WIND ENCLOSURE CLASSIFICATION: PARTIALLY ENCLOSED.
 - F. ALLOWABLE NET SOIL BEARING PRESSURE: 1500 PSF W/ 1/3 INCREASE FOR LOAD COMBINATIONS INCLUDING SEISMIC OR WIND.
 - REFER TO DRAWING 22A01 FOR DOOR, HARDWARE, AND ROOM FINISH SCHEDULES.

- KEY NOTES:**
- PRE-ENGINEERED METAL BUILDING. SEE NOTE 5 ON THIS SHEET AND SPECIFICATION SECTION 13122 FOR DESIGN CRITERIA.
 - 2'-0" MINIMUM INCREASE AS REQUIRED BY METAL BUILDING MANUFACTURER AND ANCHORAGE REQUIREMENTS.
 - VERIFY DIMENSION WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER AND EXISTING OPERATIONS AND MAINTENANCE BUILDING. SEE KEY NOTE 2/22S03 FOR ADDITIONAL INFORMATION.
 - 4" SEISMIC CONTROL JOINT TO BE PROVIDED BY METAL BUILDING MANUFACTURER FOR A WATER AND WEATHER TIGHT SEAL.
 - MATCH EXISTING OPERATIONS AND MAINTENANCE BUILDING FINISH FLOOR ELEVATION.

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
EJW
 DRAWN
DPF
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Email: ewilkins@carollo.com

Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
 STORAGE BUILDING
 FOUNDATION PLAN

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

JOB NO.
7310L.10
 DRAWING NO.
22S02
 SHEET NO.
61 OF 129

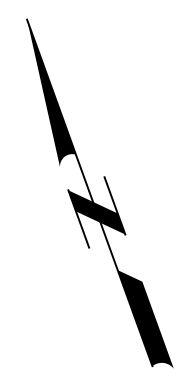
Plot Date: 03-APR-2023 1:58:37 PM

User: svcPW

PlotScale: 1:1

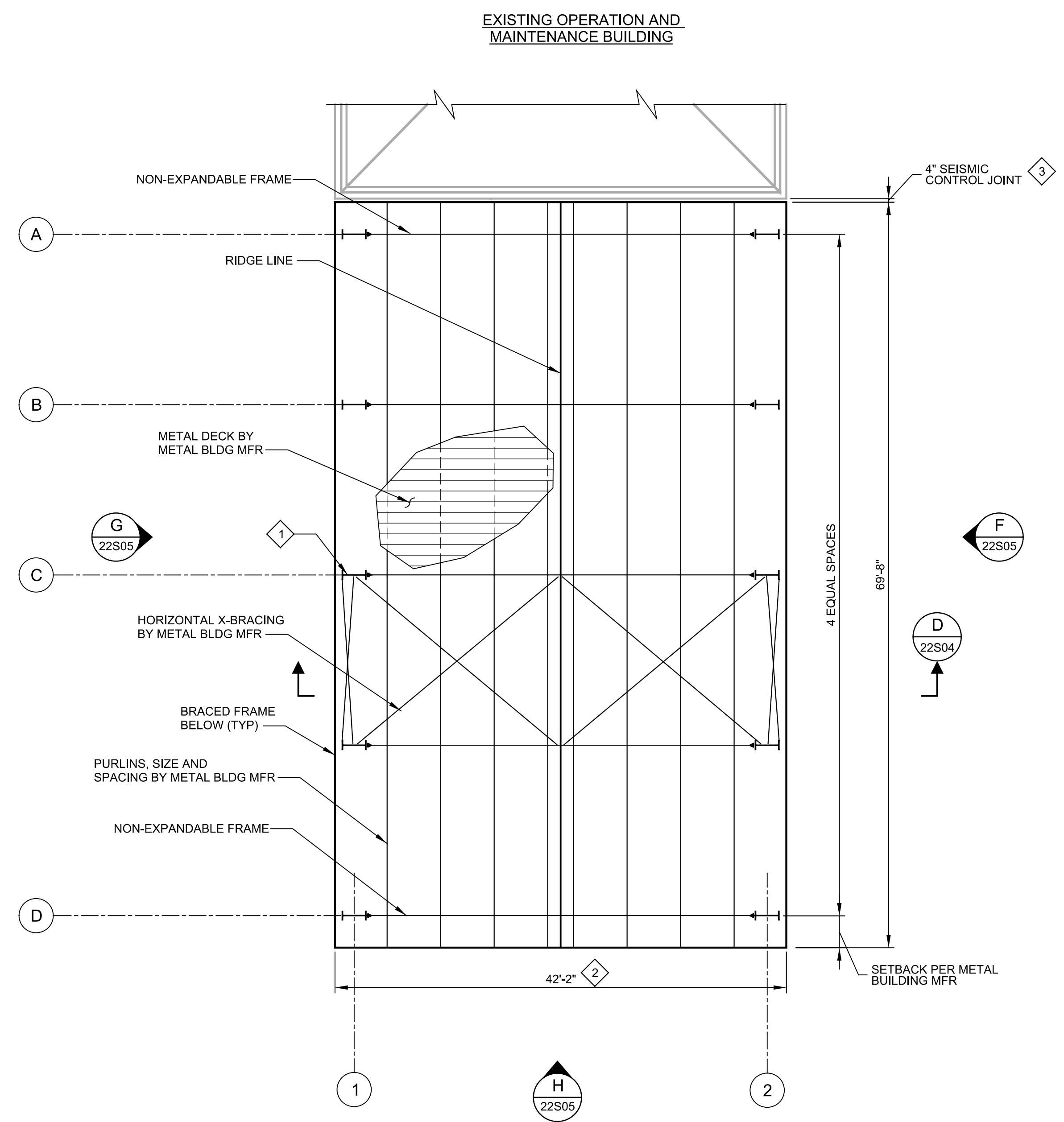
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen

LAST SAVED BY: lumadhay



- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - DIMENSIONS SHOWN ARE BASED OFF THE RECORD DRAWINGS TITLED "ELLIS CREEK WATER RECYCLING FACILITY PROJECT" BY CAROLLO ENGINEERS DATED JULY 2005. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - REFER TO DRAWING 22A01 FOR DOOR, HARDWARE, AND ROOM FINISH SCHEDULES.

- KEY NOTES:**
- PRE-ENGINEERED METAL BUILDING. SEE NOTE 5/22S02 AND SPECIFICATION SECTION 13122 FOR DESIGN CRITERIA.
 - MATCH EXISTING OPERATIONS AND MAINTENANCE BUILDING WIDTH.
 - 4" SEISMIC CONTROL JOINT TO BE PROVIDED BY METAL BUILDING MANUFACTURER FOR A WATER AND WEATHERTIGHT SEAL.



C ROOF PLAN
 22S01 SCALE: 1/8" = 1'-0"
 FILE: 7310L1022S100

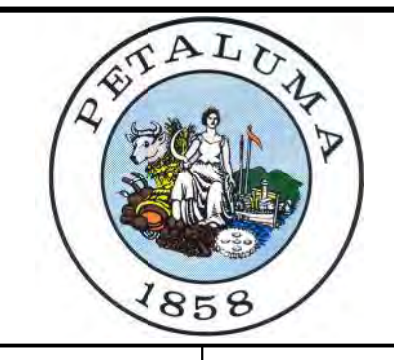
REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
 DRAWN
DPF
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.07 09:46:40-0700

Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
**STORAGE BUILDING
 ROOF FRAMING PLAN**

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

JOB NO.
7310L.10
 DRAWING NO.
22S03
 SHEET NO.
63 OF 130

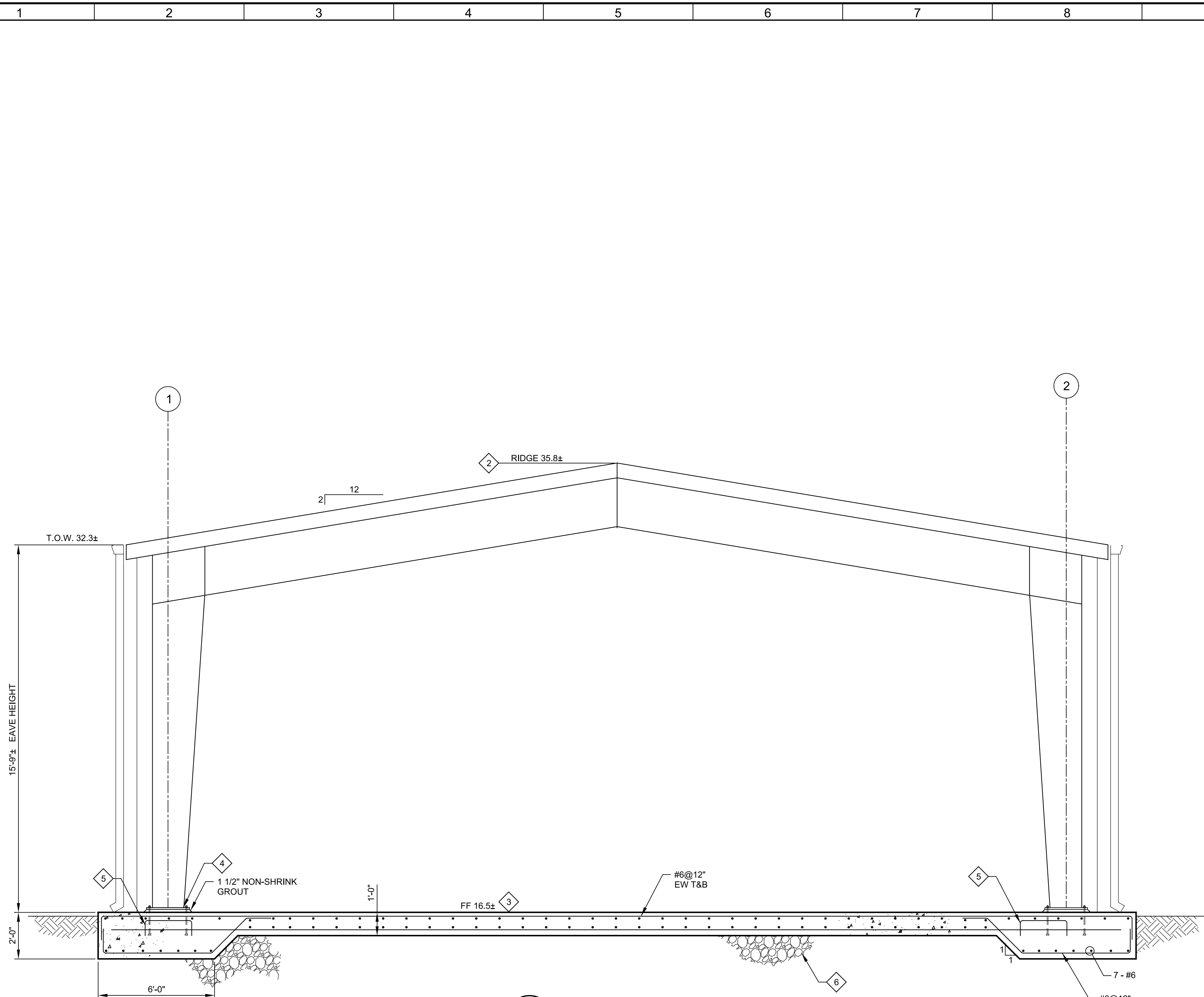
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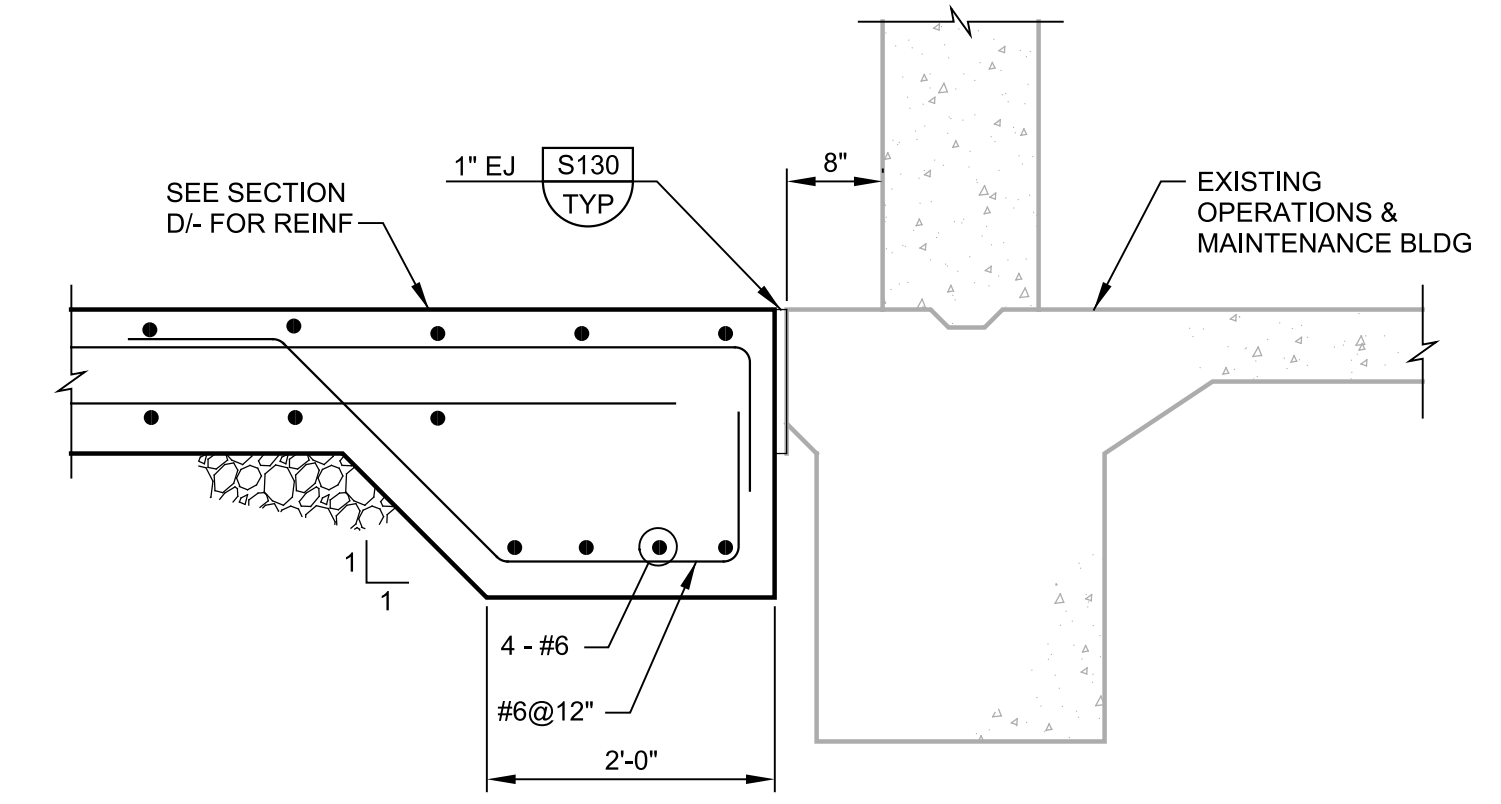
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LAST SAVED BY: lumadhay



D SECTION
 22S02 SCALE: 3/8" = 1'-0"
 22S03 FILE: 7310L1022S300



E SECTION
 22S02 SCALE: 3/4" = 1'-0"
 FILE: 7310L1022S300

- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - DIMENSIONS SHOWN ARE BASED OFF THE RECORD DRAWINGS TITLED "ELLIS CREEK WATER RECYCLING FACILITY PROJECT" BY CAROLLO ENGINEERS DATED JULY 2005. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - MINIMUM BUILDING FOUNDATION DIMENSIONS AND REINFORCEMENT ARE SHOWN ON THIS SHEET. FINAL DIMENSIONS AND REINFORCEMENT SHALL BE COORDINATED WITH THE ACTUAL BUILDING LOADS AS DETERMINED FROM THE APPROVED PRE-ENGINEERED METAL BUILDING SUBMITTAL.

- KEY NOTES:**
- PRE-ENGINEERED METAL BUILDING. SEE NOTE 5/22S02 AND SPECIFICATION SECTION 13122 FOR DESIGN CRITERIA.
 - ALIGN WITH EXISTING OPERATIONS AND MAINTENANCE BUILDING TOP OF WALL ELEVATION.
 - ALIGN WITH EXISTING OPERATIONS AND MAINTENANCE BUILDING FINISH FLOOR ELEVATION.
 - METAL BUILDING ANCHORAGE TO BE DESIGNED, FURNISHED AND INSTALLED BY CONTRACTOR. SEE SPECIFICATION SECTION 13122 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE LEVELING NUTS AS REQUIRED BY METAL BUILDING MANUFACTURER.
 - ANCHOR REINFORCEMENT AS REQUIRED BY ANCHORAGE CALCULATIONS. REINFORCEMENT SHALL BE DESIGNED AND DETAILED BY CONTRACTOR.
 - 12" AGGREGATE BASE COURSE WRAPPED IN WOVEN GEOTEXTILE. REFER TO SPECIFICATION SECTIONS 02050 AND 02300 FOR ADDITIONAL INFORMATION.

REV	DATE	BY	DESCRIPTION

DESIGNED
EJW
DRAWN
DPF
CHECKED
JAD
DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Email: ewilkins@carollo.com



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
 STORAGE BUILDING
 FOUNDATION SECTIONS

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

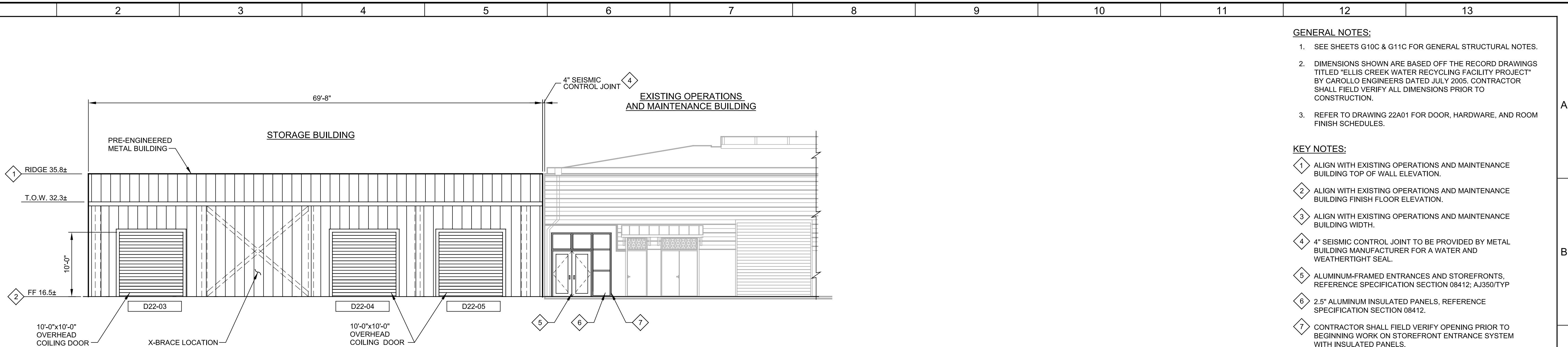
JOB NO.
7310L.10
DRAWING NO.
22S04
SHEET NO.
64 OF 130

Plot Date: 03-APR-2023 1:42:33 PM

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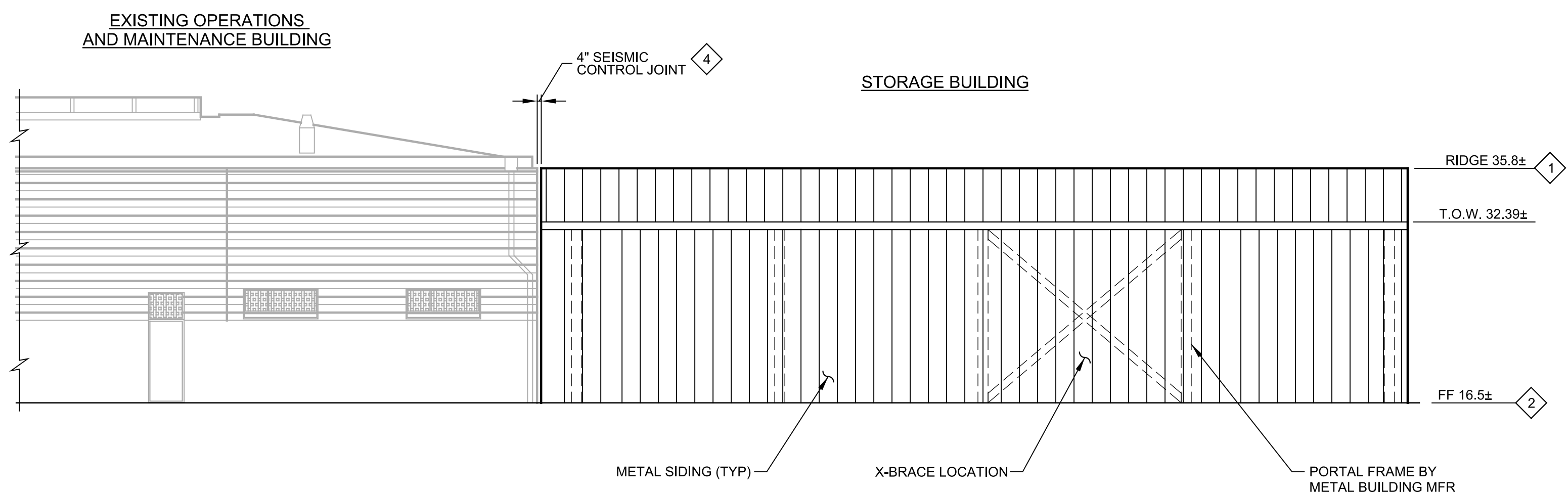
LAST SAVED BY: KAKIN



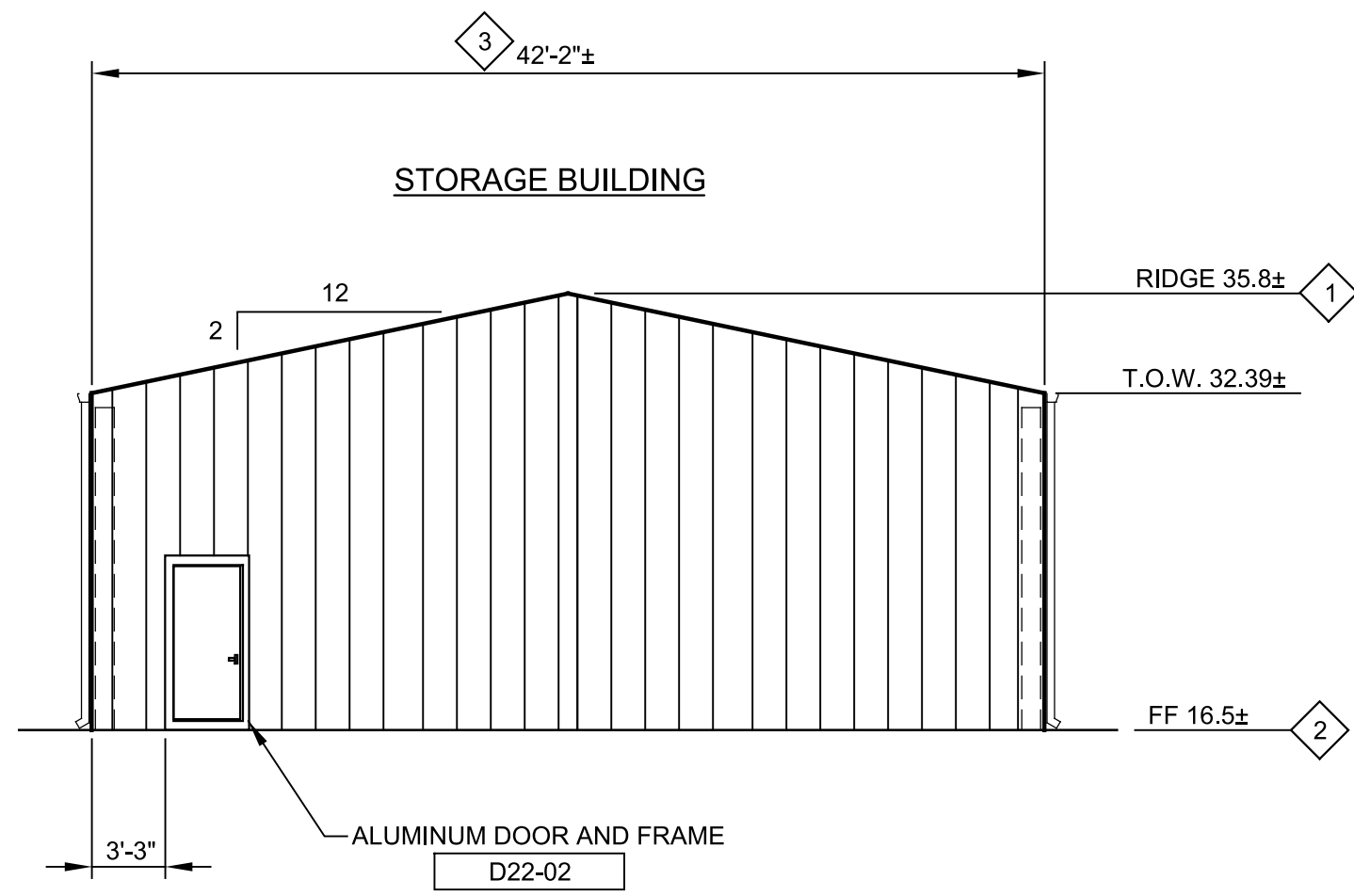
F EAST ELEVATION
 22S03 SCALE: 1/8" = 1'-0"
 FILE: 7310L1022S301

- GENERAL NOTES:**
- SEE SHEETS G10C & G11C FOR GENERAL STRUCTURAL NOTES.
 - DIMENSIONS SHOWN ARE BASED OFF THE RECORD DRAWINGS TITLED "ELLIS CREEK WATER RECYCLING FACILITY PROJECT" BY CAROLLO ENGINEERS DATED JULY 2005. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - REFER TO DRAWING 22A01 FOR DOOR, HARDWARE, AND ROOM FINISH SCHEDULES.

- KEY NOTES:**
- ALIGN WITH EXISTING OPERATIONS AND MAINTENANCE BUILDING TOP OF WALL ELEVATION.
 - ALIGN WITH EXISTING OPERATIONS AND MAINTENANCE BUILDING FINISH FLOOR ELEVATION.
 - ALIGN WITH EXISTING OPERATIONS AND MAINTENANCE BUILDING WIDTH.
 - 4" SEISMIC CONTROL JOINT TO BE PROVIDED BY METAL BUILDING MANUFACTURER FOR A WATER AND WEATHERTIGHT SEAL.
 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS. REFERENCE SPECIFICATION SECTION 08412; AJ350/TYP
 - 2.5" ALUMINUM INSULATED PANELS. REFERENCE SPECIFICATION SECTION 08412.
 - CONTRACTOR SHALL FIELD VERIFY OPENING PRIOR TO BEGINNING WORK ON STOREFRONT ENTRANCE SYSTEM WITH INSULATED PANELS.



G WEST ELEVATION
 22S03 SCALE: 1/8" = 1'-0"
 FILE: 7310L1022S301



H SOUTH ELEVATION
 22S03 SCALE: 1/8" = 1'-0"
 FILE: 7310L1022S301

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
EJW
 DRAWN
DPF
 CHECKED
JAD
 DATE
JANUARY 2023



Digitally signed by Eric J. Wilkins
 Contact Info: Carollo Engineers, Inc.
 Date: 2023.04.07 09:46:20-0700
Eric Wilkins



CITY OF PETALUMA
 FILTER ADDITION AND MISC. IMPROVEMENTS PROJECT
 STRUCTURAL
STORAGE BUILDING ELEVATIONS

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

JOB NO.
7310L.10
 DRAWING NO.
22S05
 SHEET NO.
65 OF 130