

WILL HAVE COVER PAGE  
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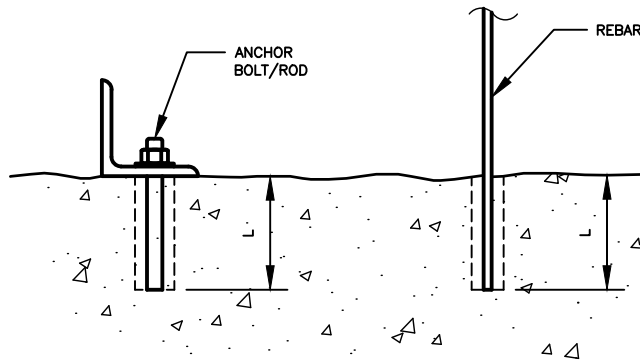
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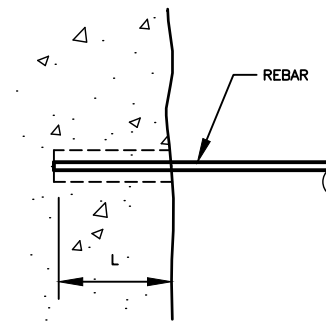


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VERTICAL  
APPLICATION



HORIZONTAL  
APPLICATION

ADHESIVE ANCHOR SCHEDULE			
REINFORCING BARS		ANCHOR BOLTS/RODS	
BAR SIZE	EMBED LENGTH (L)	DIA (IN)	EMBED LENGTH (L)
#3	4"	3/8"	5"
#4	5"	1/2"	6"
#5	6"	5/8"	7"
#6	7"	3/4"	8"
#7	8"	7/8"	9"
#8	9"	1"	10"
#9	10"		
#10	12"		

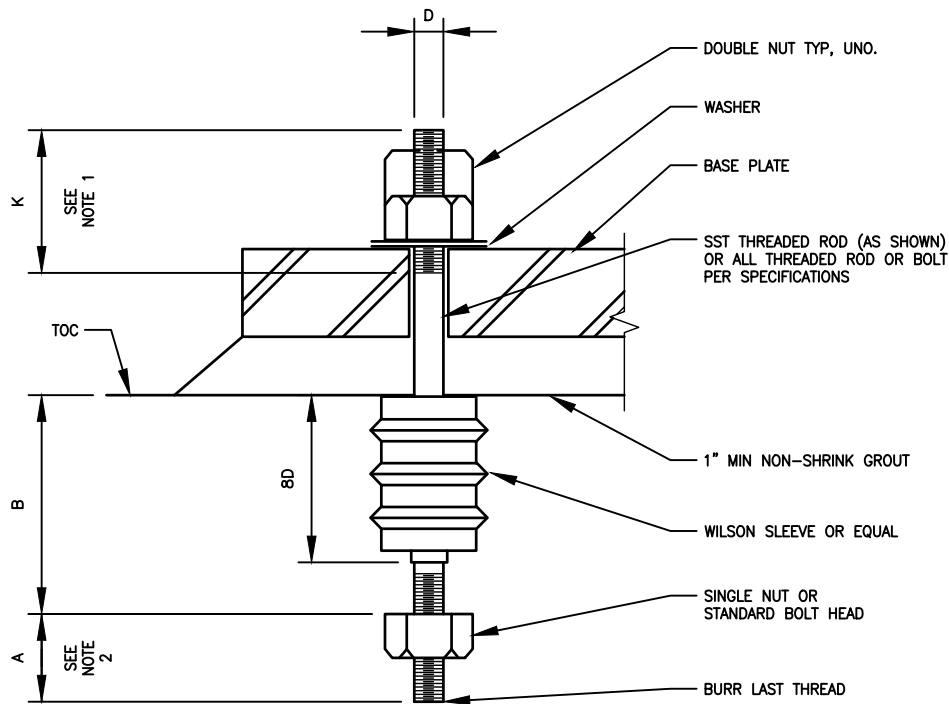
NOTES:

1. ADHESIVE TYPE IS SUBJECT TO APPROVAL OF THE ENGINEER OF RECORD.
2. EMBEDMENT LENGTHS SHOWN ARE MINIMUM. PROVIDE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
3. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATION SECTION 03 15 19.



**CITY OF HAILEY WOODSIDE WATER  
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ADHESIVE ANCHOR DETAILS & SCHEDULE**

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SCHEDULE - ANCHOR BOLT TYPE A				
D	A	B	K	REMARKS
3/8"	1"	6"	2 3/4"	
1/2"	1 1/4"	8"	3"	
5/8"	1 1/2"	10"	3 1/4"	
3/4"	1 3/4"	1'-0"	3 1/2"	
7/8"	2"	1'-2"	3 3/4"	
1"	2 1/4"	1'-4"	4"	
1 1/8"	2 1/2"	1'-6"	4 1/4"	
1 1/4"	2 3/4"	1'-8"	4 1/2"	
1 3/8"	3"	1'-10"	4 3/4"	
1 1/2"	3 1/4"	2'-0"	5"	
1 3/4"	3 3/4"	2'-4"	5 1/2"	
2"	4 1/4"	2'-8"	6"	
2 1/2"	5 1/2"	4'-0"	7"	
3"	6 1/4"	5'-6"	8"	

**NOTES:**

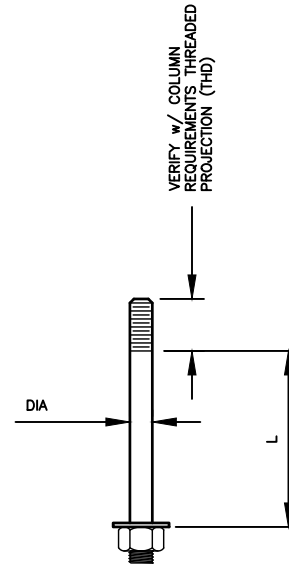
1. STANDARD BOLT THREAD LENGTH MAY BE USED WHERE APPLICABLE.
2. DIMENSION IN SCHEDULE OR STANDARD BOLT HEAD.
3. PROVIDE ANCHOR BOLT DIMENSION PER THE ABOVE TABLE.



**CITY OF HAILEY WOODSIDE WATER  
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ANCHOR BOLT DETAILS AND SCHEDULE**

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ANCHOR BOLT SCHEDULE			
MARK	DIA (IN)	THD (IN) *	L
1	3/4	5	1'-2"
2	3/4	5	2'-6"
3	1	6	3'-0"
4	1-1/4	6	3'-0"
5	1 1/2	6	3'-0"



**NOTES:**

1. ALL BOLTS SHALL BE GALVANIZED STEEL, UNO.
2. PROVIDE ANTI SEIZE COMPOUND ON THREADS.
3. REFERENCE SPECS FOR ANCHOR BOLT MATERIAL.



**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
ANCHOR BOLT**

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LAP SPLICE AND EMBEDMENT LENGTHS $f_y = 60 \text{ ksi}$ $f'_c \leq 4.5 \text{ ksi}$		
BAR	BARS SPACED GREATER THAN 4"	BARS SPACED LESS THAN OR EQUAL TO 4"
#3	14"	20"
#4	19"	32"
#5	29"	46"
#6	39"	62"
#7	55"	87"
#8	69"	107"
#9	76"	116"
#10	97"	140"
#11	120"	146"

NOTES:

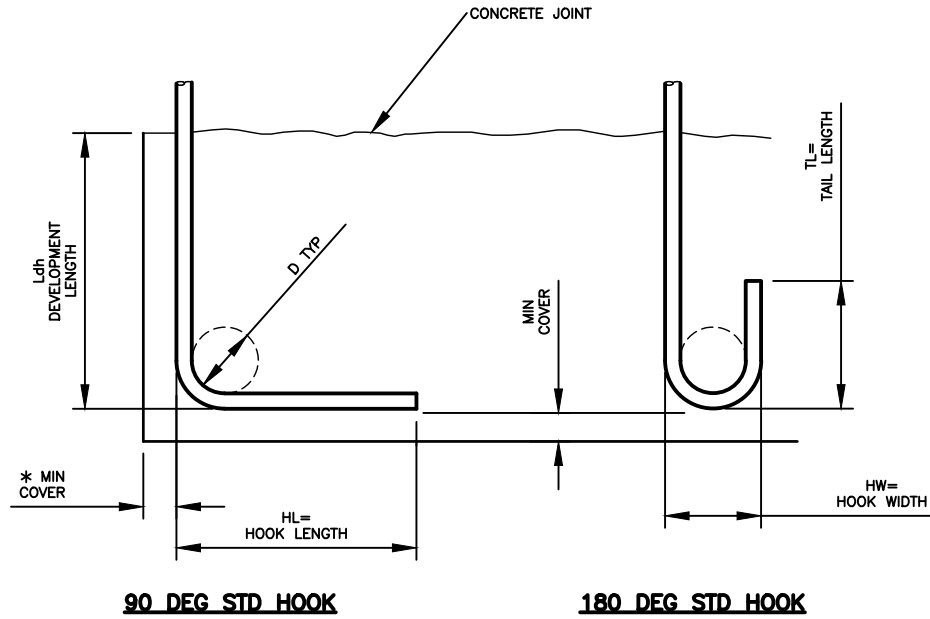
1. PROVIDE MINIMUM LAP SPLICE LENGTHS AND EMBEDMENTS PER TABLE UNLESS NOTED OTHERWISE. EMBEDMENT LENGTH EQUALS THE LAP SPLICE LENGTH UNLESS OTHERWISE NOTED.
2. BAR SPACING AT LAP SPLICE IS THE MINIMUM CLEAR DISTANCE BETWEEN LAPPED BARS PLUS ONE BAR DIAMETER.
3. ALL SPLICES TO BE CONTACT SPLICES AND WIRED TOGETHER UNLESS OTHERWISE APPROVED BY ENGINEER.



**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
CONCRETE REINFORCING LAP & EMBEDMENT SCHEUDLE**

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BAR SIZE GRADE 60	HL	HW	TL	D**	f'c=4.5 KSI
					Ldh *
#3	6"	3"	3"	2 1/4"	6"
#4	8"	4"	4 1/2"	3"	7"
#5	10"	5"	5"	3 3/4"	9"
#6	1'-0"	6"	6"	4 1/2"	10"
#7	1'-2"	7"	7"	5 1/4"	12"
#8	1'-4"	8"	8"	6"	14"
#9	1'-7"	11 3/4"	10 1/2"	9 1/2"	15"
#10	1'-10"	1'-1 1/4"	11 1/2"	10 3/4"	17"
#11	2'-0"	1'-2 3/4"	1'-1"	12"	19"

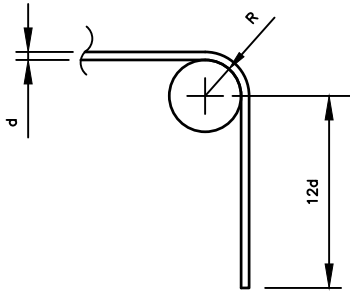
\* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF  
ACI 318, 25.4.3 OTHERWISE Ldh MUST BE RE-CALCULATED.

\*\* ALL REINFORCING BENDS ON THE PROJECT EXCEPT STIRRUPS  
AND TIES SHALL USE THESE BEND DIAMETERS.

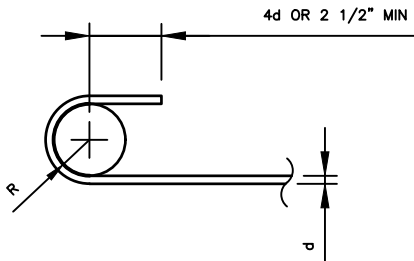


**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
REINFORCING STD HOOK AND BAR BEND SCHEDULE**

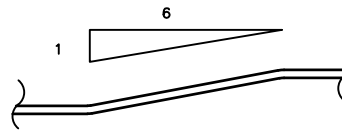
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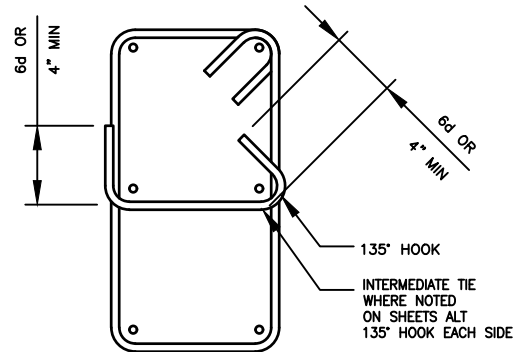
**90° BEND**



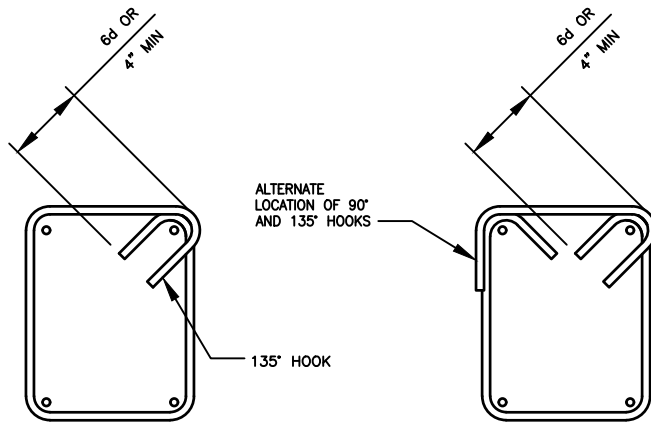
**180° BEND**



**MAX OFFSET BEND**



**TYP. COLUMN TIE  
OR CLOSED STIRRUP**

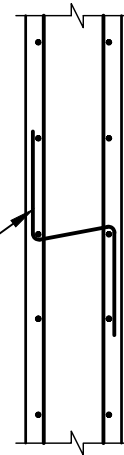


**TYP HOOP**

**TYP STIRRUP**

BAR SIZE	R
#3-#8	3d
#9-#11	4d
#14-#18	5d

Z-BAR SPACERS  
8'-0" OC EACH  
DIRECTION. MINIMUM  
ONE ROW. FABRICATE  
FROM #2 OR HEAVIER  
BARS. TIE TO OUTSIDE  
LAYER OF REINFORCING

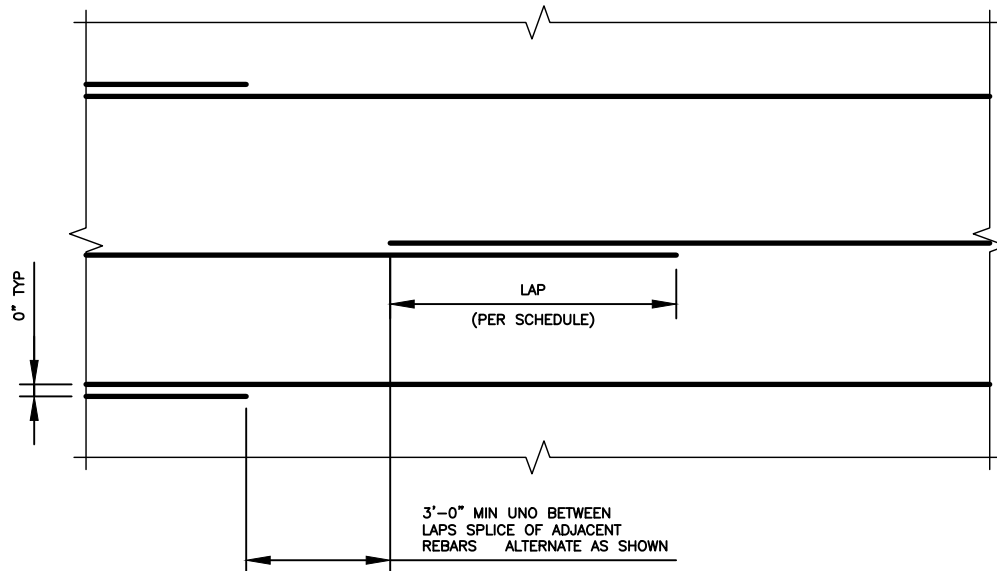


**SPACER FOR WALL  
REINFORCEMENT**



**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
TYPICAL STIRRUPS & TIES**

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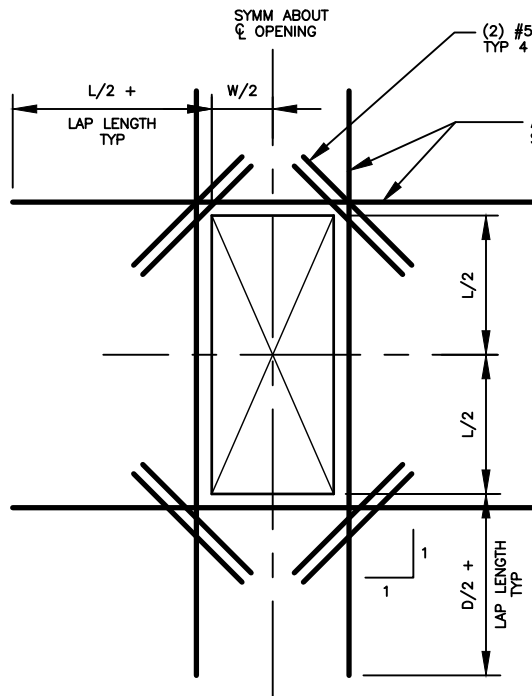
**NOTE:**

1. APPLIES TO SLABS AND WALLS (BOTH HORIZONTAL AND VERTICAL).

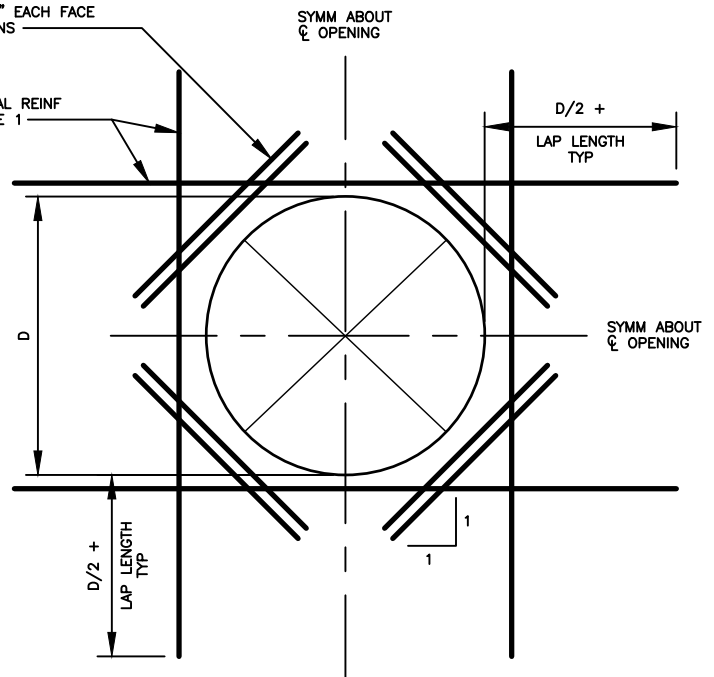


**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
REINFORCING SPLICE - NOT AT CONSTRUCTION JOINT**

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**RECTANGULAR OPENING DETAIL**



**CIRCULAR OPENING DETAIL**

FOR NOTES THAT APPLY TO THIS DETAIL, SEE 03 21 00-05A



**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
EXTRA REINFORCING AROUND OPENINGS**

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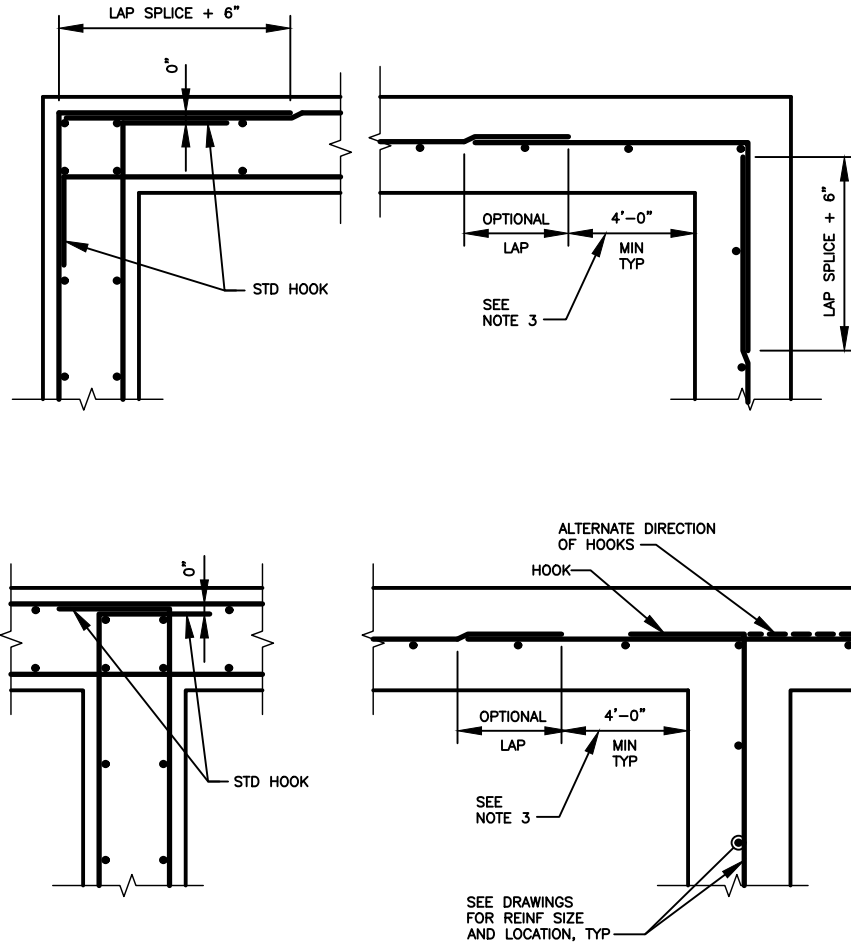
NOTES:

1. THESE NOTES APPLY TO STANDARD DETAIL 03 21 00-05 ON PREVIOUS PAGE.
2. PROVIDE ADDITIONAL REINFORCING THE SAME SIZE AS DISCONTINUOUS REINFORCEMENT AT OPENING. QUANTITY OF REINFORCING IN EACH DIRECTION SHALL BE EQUAL TO OR ONE GREATER THAN THE NUMBER OF DISCONTINUOUS BARS. PLACE 1/2 OF ADDITIONAL REINFORCING BARS EACH SIDE OF OPENING, PLACE ADDITIONAL REINFORCEMENT AT 3" OC (TYPICAL BOTH DIRECTIONS AND ALL LAYERS OF REINFORCEMENT). START FIRST BAR 2" CLEAR TO OPENING. PLACE ADDITIONAL REINFORCING IN SAME PLANES AS INTERRUPTED TYPICAL REINFORCING.
3. EXTEND ADDITIONAL REINFORCING BEYOND EDGE OF OPENING AS SHOWN ABOVE. ADDITIONAL BARS MAY TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK WHERE THE LENGTH OF THE WALL WILL NOT PERMIT BARS TO EXTEND AS SHOWN ABOVE.
4. TYPICAL WALL OR SLAB REINFORCING NOT SHOWN FOR CLARITY. TERMINATE TYPICAL REINFORCING 2" CLEAR TO OPENING.
5. DETAIL 03 21 00-05 SHALL BE USED WHENEVER THE OPENING IS LARGER THAN THE REINFORCING SPACING.
6. UNLESS SHOWN OTHERWISE ON DRAWINGS, PROVIDE EXTRA REINFORCING AROUND OPENINGS AS SHOWN AND INDICATED ABOVE.
7. PROVIDE ADDITIONAL DOWELS PER NOTE 2 ABOVE FOR ALL OPENINGS NEAR THE FLOOR SLAB, BASE SLAB, OR CORNERS.



**CITY OF HAILEY WOODSIDE WATER  
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NOTES FOR EXTRA REINFORCING AROUND OPENINGS**

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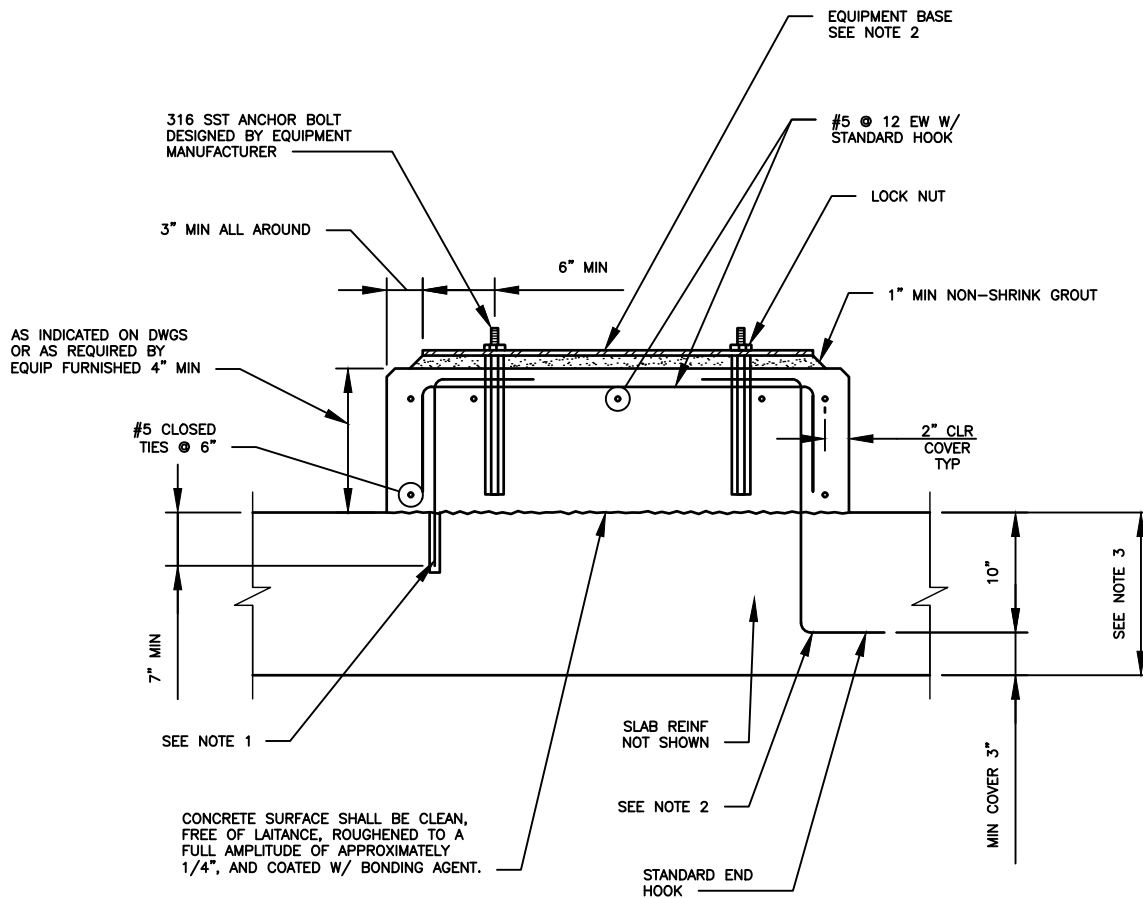
**NOTES:**

1. ALL HOOKS SHALL BE STD 90 DEGREE HOOKS.
2. SEE DRAWINGS FOR ADDITIONAL HORIZONTAL BARS. STAGGER BETWEEN TYPICAL REINF SPACING, EXTEND TO 1/5 OF DISTANCE TO NEAREST ADJACENT WALL IN EACH DIRECTION, UNO.
3. OPTIONAL LAP LOCATION. APPLIES TO BOTH DOUBLE AND SINGLE LAYER CONDITIONS TYP. OPTIONAL LAPS SHOWN ARE FOR HORIZ REINF ONLY.
4. SEE DRAWINGS FOR POSITION OF VERTICAL REINF VERSUS HORIZONTAL REINFORCING. THE CASE SHOWN IS MOST COMMONLY USED FOR WALL TO SLAB CONNECTIONS SHOWN IN SECTION VIEW. SPECIFIC DWGS CONTROL.



**CITY OF HAILEY WOODSIDE WATER  
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HEADWORKS IMPROVEMENTS  
REINFORCEMENT AT CORNERS AND INTERSECTIONS**

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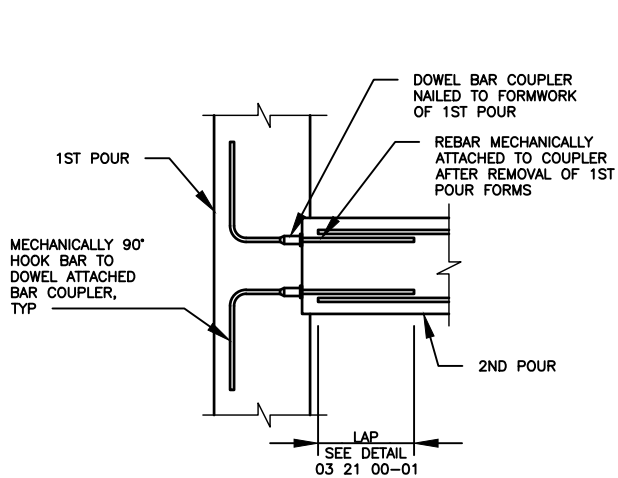
**NOTES:**

1. FOR NEW EQUIPMENT PADS ON EXISTING SLABS, PROVIDE #5 ADHESIVE DOWELS AT 12" CENTERS AROUND PERIMETER OF EQUIPMENT BASE.
2. FOR EQUIPMENT PADS ON NEW SLABS, PROVIDE #5 DOWELS AT 12" CENTERS AROUND PERIMETER OF EQUIPMENT BASE.
3. AT SLAB ON GRADE, WHERE CONCRETE SLAB THICKNESS WILL NOT PROVIDE MINIMUM COVER AS SPECIFIED ON DWGS, PROVIDE EXTRA THICKNESS OF CONCRETE.
4. UNLESS SHOWN OTHERWISE ON DRAWINGS, PROVIDE EXTRA REINFORCING AROUND OPENINGS AS SHOWN AND INDICATED IN 03 21 00-05.

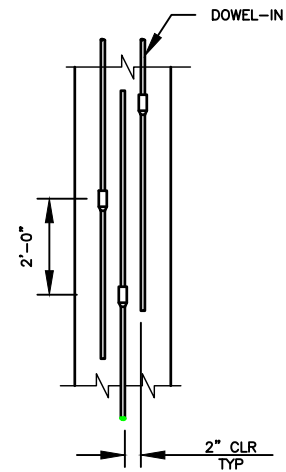


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EQUIPMENT PAD**

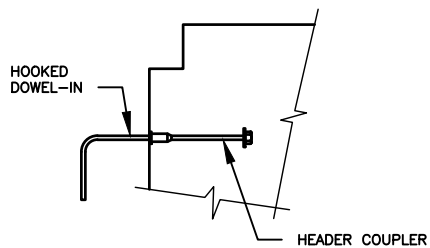
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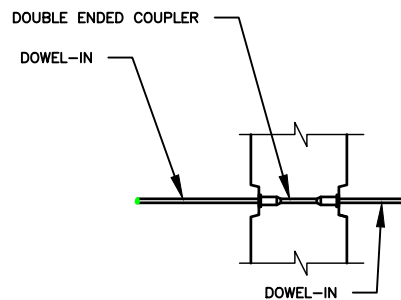
**AT WALL INTERSECTION**



**MECHANICAL COUPLER**



**HEADED COUPLER**



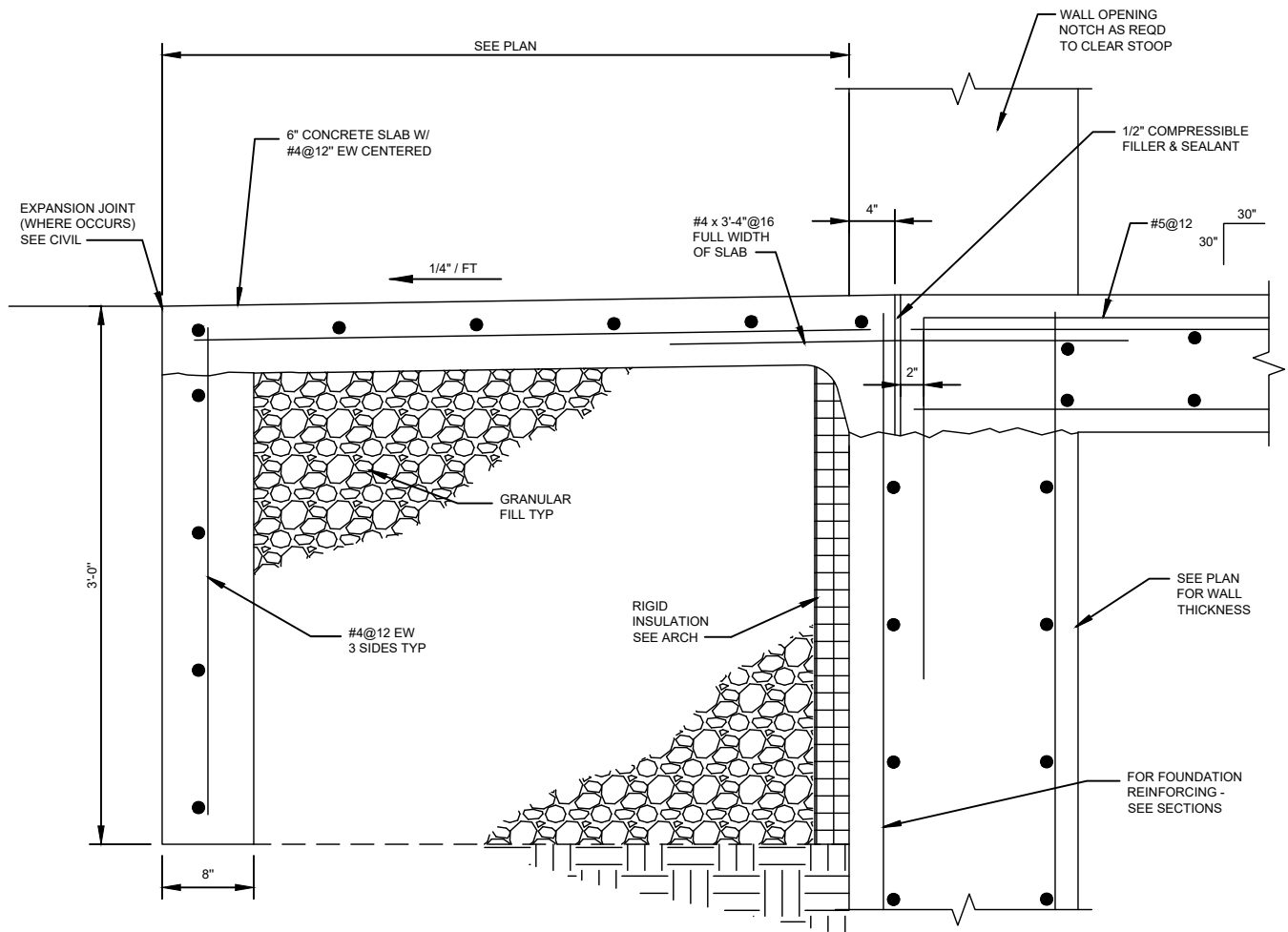
**DOUBLE ENDED COUPLER**



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REBAR MECHANICAL COUPLERS**

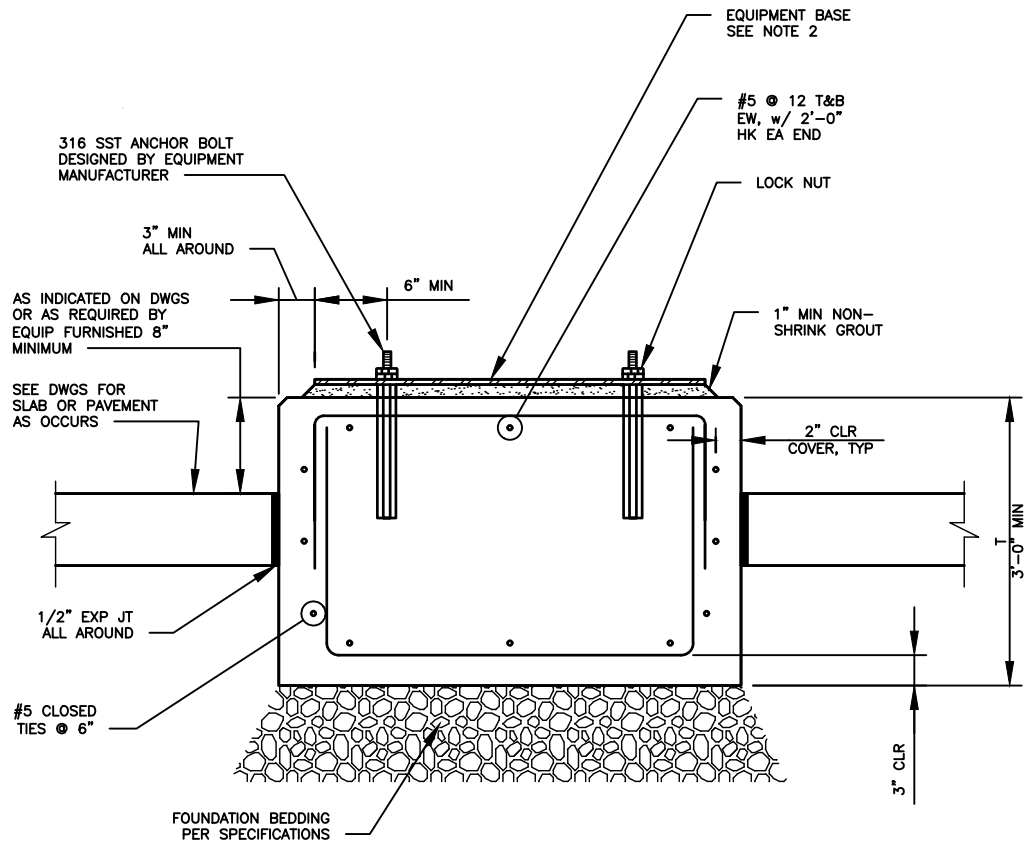
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**CITY OF HAILEY WOODSIDE WATER  
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CONCRETE STOOP DETAIL**

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03 21 00-09



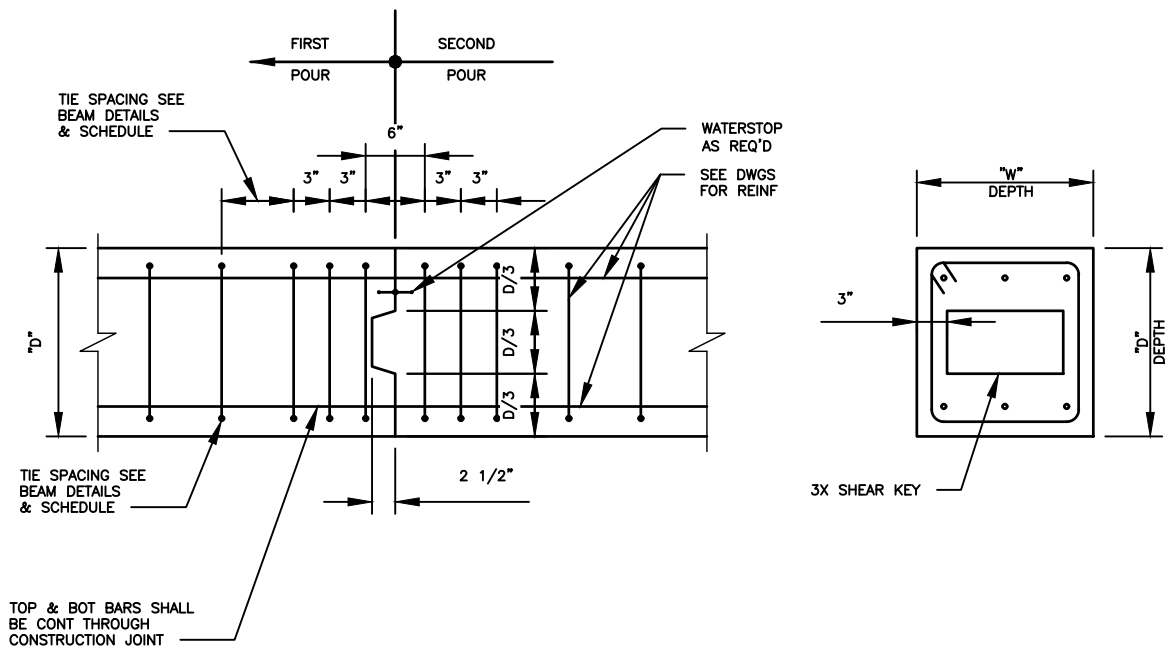
**NOTES:**

1. PROVIDE PAD UNDER ELECTRICAL AND MECHANICAL EQUIPMENT.
2. EQUIPMENT BASE DIMENSIONS SHALL BE INDICATED ON THE DRAWINGS OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL TOLERANCE IS 1/16".



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
ISOLATED EQUIPMENT PAD**

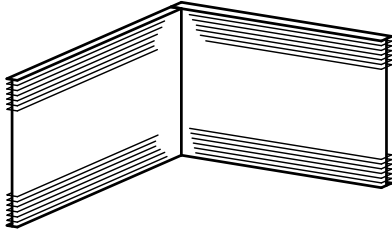
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03 21 00-10



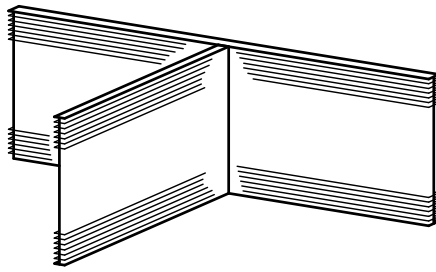
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CONCRETE BEAM CONSTRUCTION JOINT**

DATE  
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ISSUE  
ISSUE FOR REVIEW

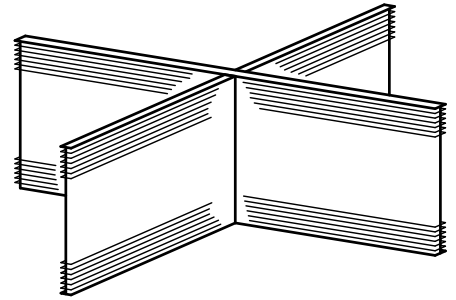
DETAIL NUMBER  
03 21 00-11



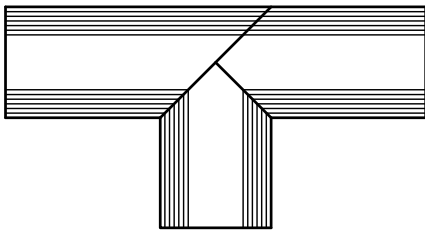
**VERTICAL ELL**



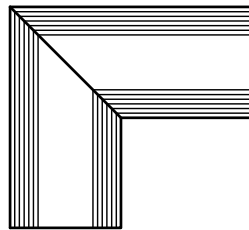
**VERTICAL TEE**



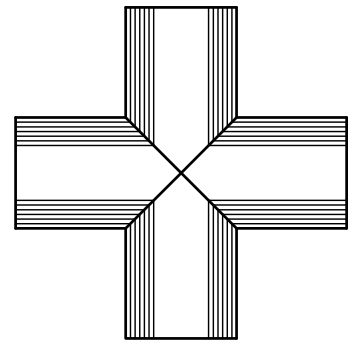
**VERTICAL CROSS**



**FLAT TEE**



**FLAT ELL**



**FLAT CROSS**

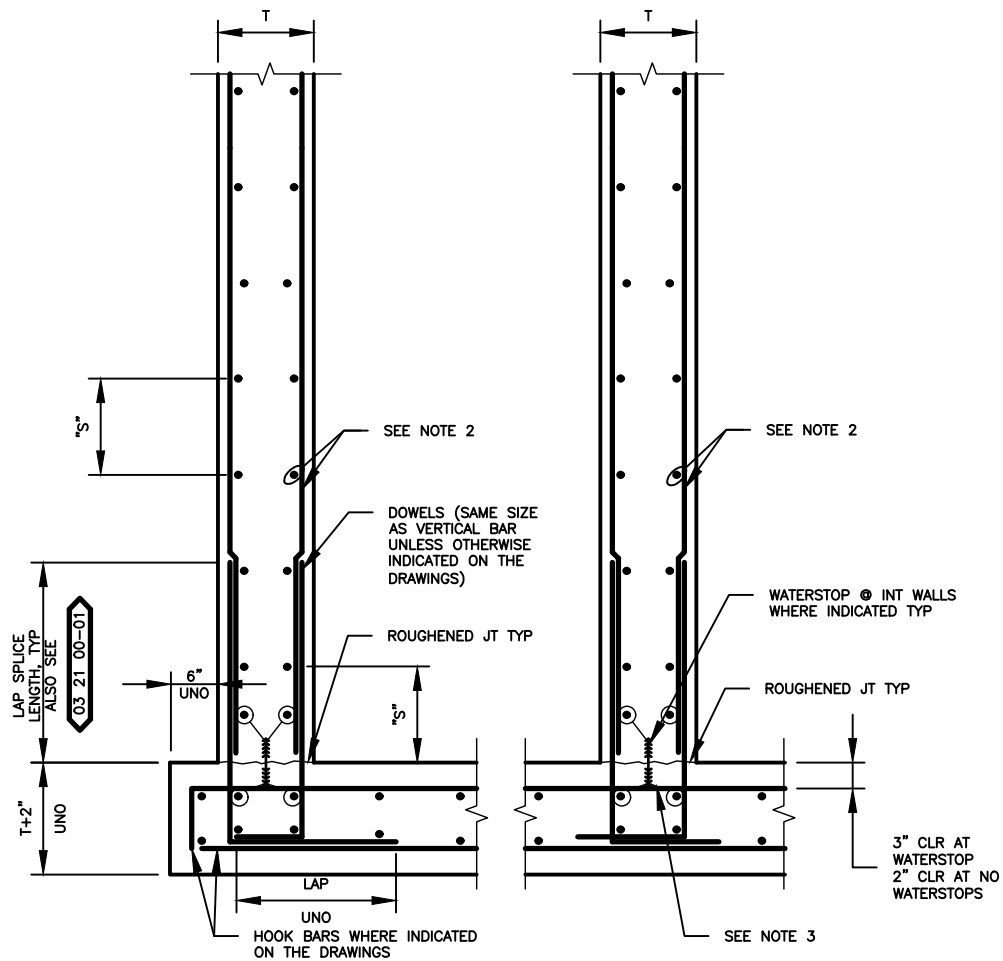
**NOTES:**

1. BULB TYPE WATERSTOPS SHALL BE HANDLED SIMILAR TO AS SHOWN WITH BULB JOINTS MITERED FOR FULL CONTINUITY OF HOLLOW BULB.
2. ONLY STRAIGHT BUTT JOINT WELDS ARE ALLOWED IN THE FIELD.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
SHOP FABRICATED WATERSTOP**

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ISSUE FOR REVIEW  
DETAIL NUMBER  
03 31 31-01



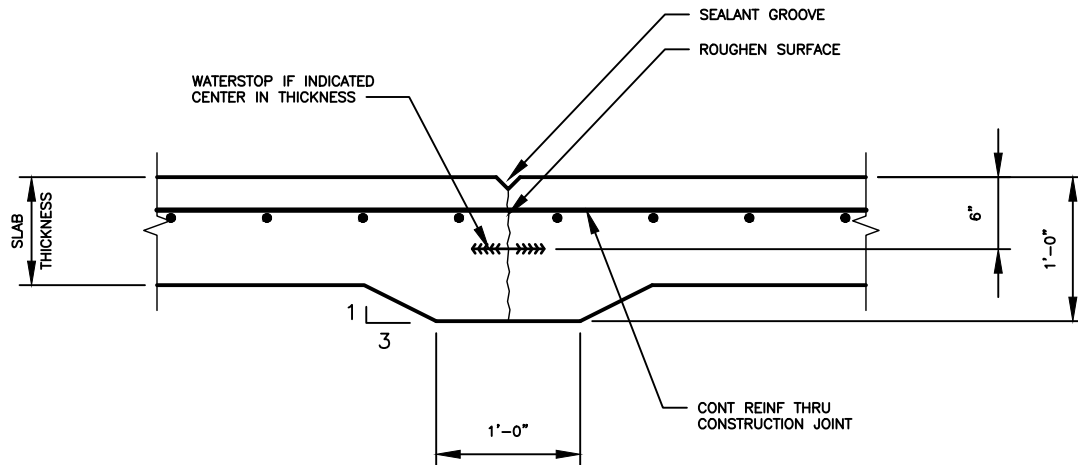
**NOTES:**

1. "S" = BAR SPACING INDICATED ON THE DRAWINGS
2. FOR HORIZONTAL REINF BAR LOCATION RELATIVE TO VERTICAL REINF BAR LOCATION (INSIDE OR OUTSIDE SEE DRAWING (INSIDE SHOWN)).
3. TIE WATERSTOP SECURELY IN PLACE PER SPECIFICATION SECTION 03 31 31.

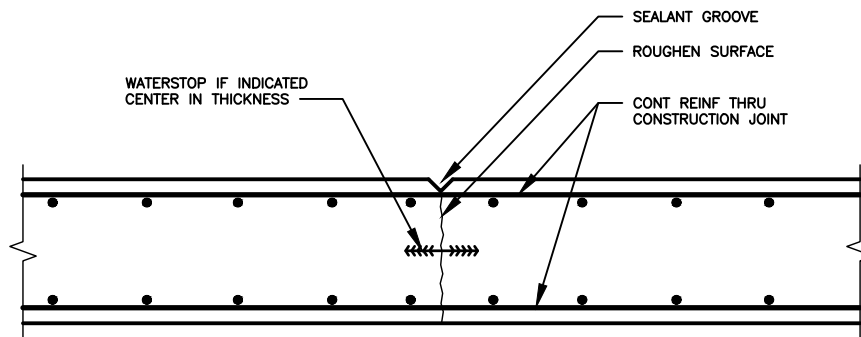


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
HORIZONTAL WALL JOINTS WITH WATERSTOPS**

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DETAIL NUMBER  
03 31 31-02



**ROUGHENED CONSTRUCTION JOINT AT SLAB < 10" THICK**



**ROUGHENED CONSTRUCTION JOINT**

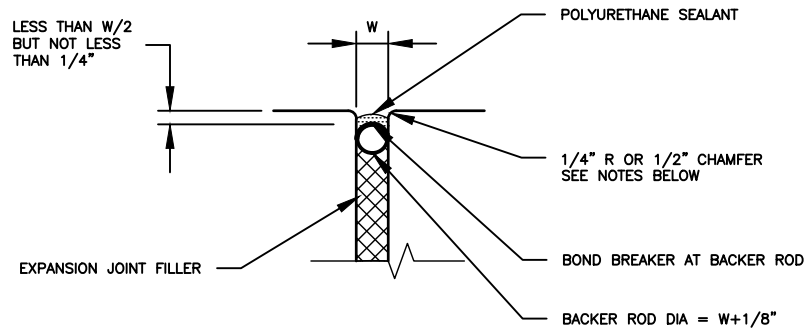
**NOTE:**

1. SEE SPECIFICATION FOR REQUIREMENT TO TIE WATERSTOPS IN PLACE TO PREVENT MOVEMENT OR FOLDING OVER.

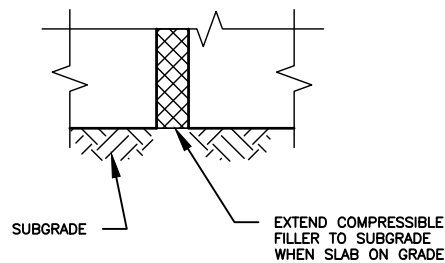


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CONSTRUCTION JOINTS (CJ)**

DATE  
04/11/2025  
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03 31 31-03



**DETAIL "A" EXPOSED FACE**



**DETAIL "B" SOIL SIDE**

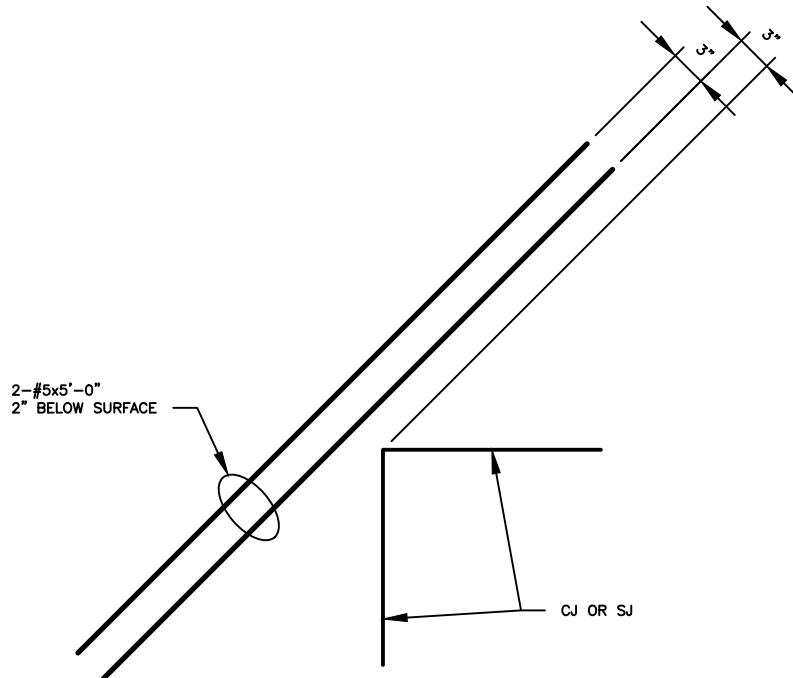
**NOTES:**

1. FOR WALLS, FORM ALL JOINT EDGES AT  $1/2"$  CHAMFER.
2. FOR UNDER SIDE OF EXPOSED SLABS, FORM JOINT EDGES AT  $1/2"$  CHAMFER.
3. FOR SLABS, PROVIDE  $1/4"$  RADIUS TOOLED EDGES AT TOP SURFACE.
4. USE DETAIL "B" AT UNDERSIDE OF SLABS ON GRADE ONLY. USE DETAIL "A" AT ALL OTHER LOCATIONS.
5. " $W$ " = 1" WIDE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

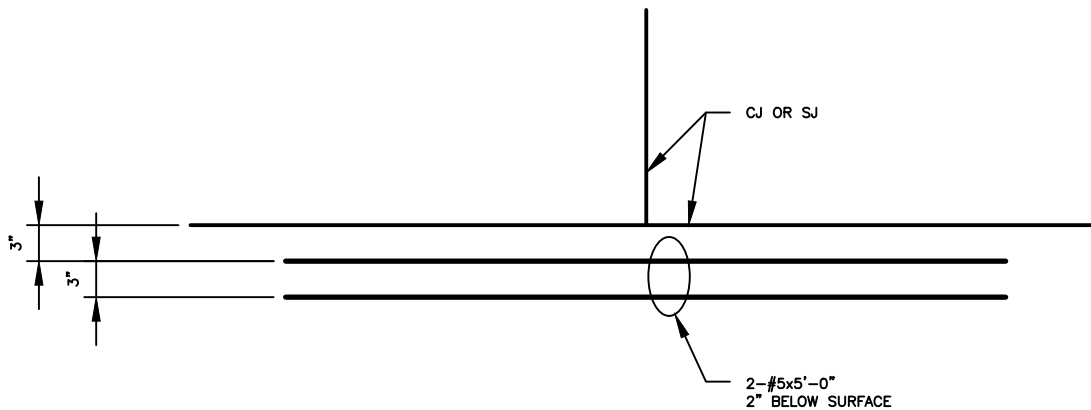


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
SEALANT DETAIL**

DATE  
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ISSUE FOR REVIEW  
DETAIL NUMBER  
03 31 31-04



**RE-ENTRANT CORNER**



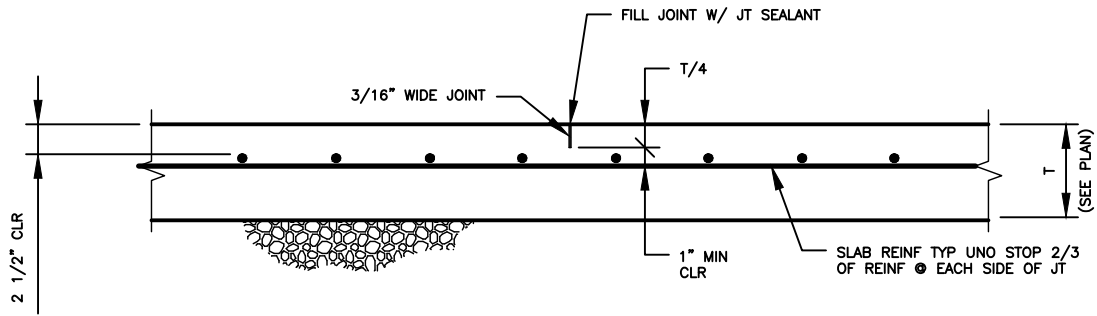
**DISCONTINUOUS JOINT INTERSECTION**



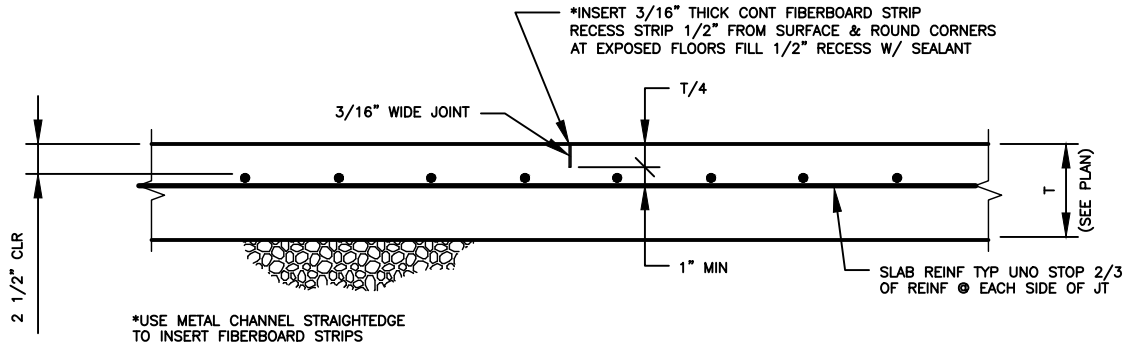
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
ADDITIONAL SLAB REINFORCING**

DATE  
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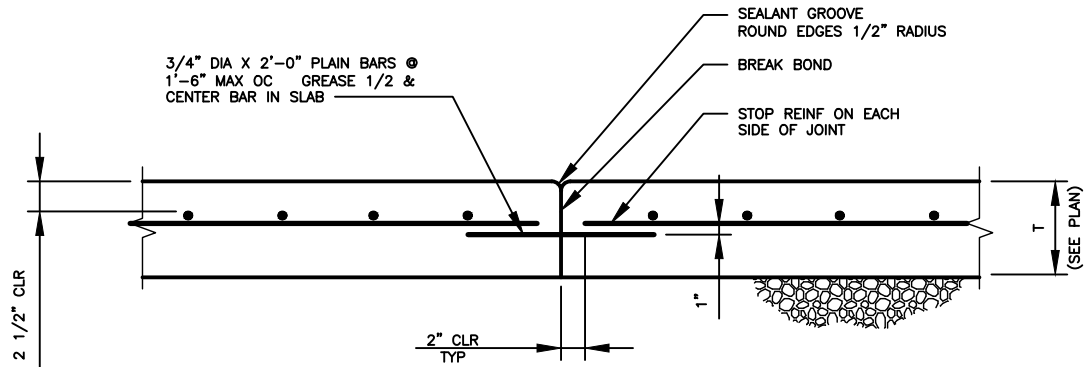




### SAWED CONTROL JOINT



### FORMED CONTROL JOINT



### DOWELLED CONSTRUCTION JOINT (DSJ)

#### NOTE:

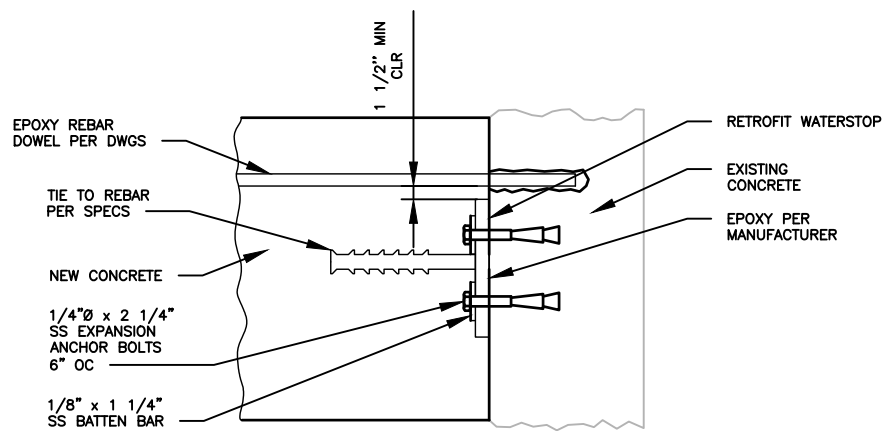
1. ANY ONE OF THE DETAILS ABOVE MAY BE USED AT LOCATIONS INDICATED ON DRAWINGS AS "SJ," AT CONTRACTOR'S OPTION.
2. WHERE "DSJ" IS INDICATED ON PLAN, THE "DSJ" SHALL BE USED.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
SLAB-ON-GRADE JOINT**

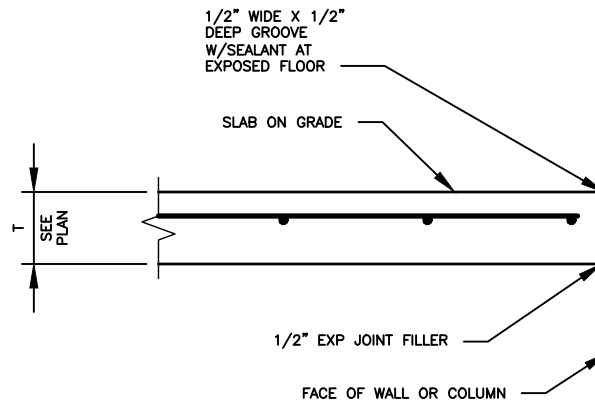
DATE  
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ISSUE FOR REVIEW  
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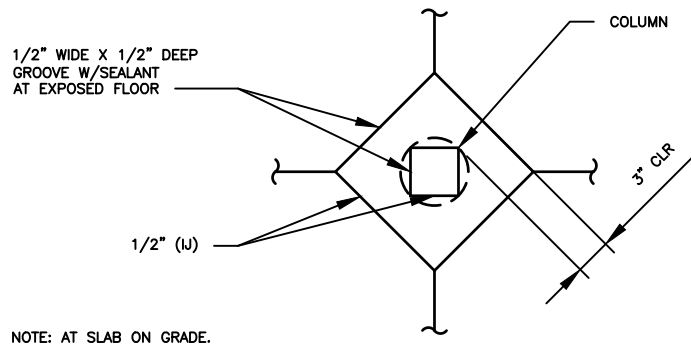


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
RETROFIT WATERSTOP**

DATE  
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ISSUE FOR REVIEW  
DETAIL NUMBER  
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#### ISOLATION JOINT AT SLAB ON GRADE

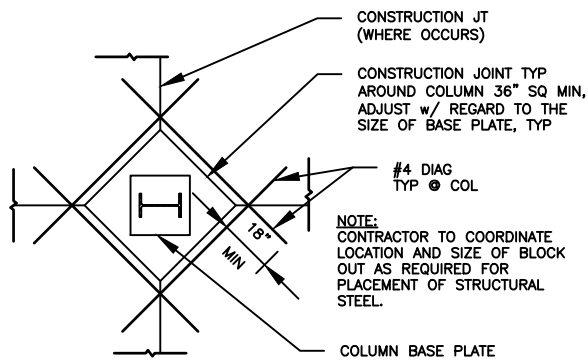


#### ISOLATION JOINT AT COLUMN

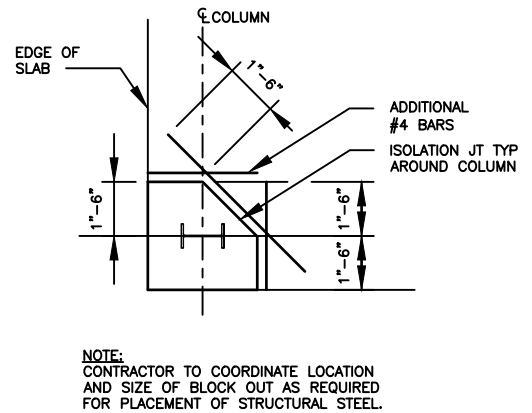


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL ISOLATION JOINTS (IJ)**

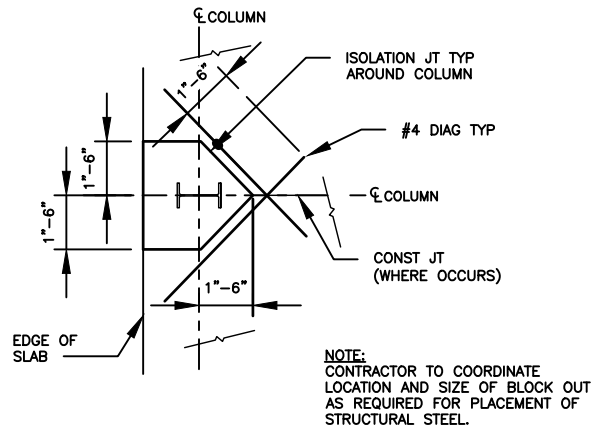
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**A - COLUMN BLOCKOUT**



**B - CORNER COLUMN BLOCKOUT**



**C - EDGE COLUMN BLOCKOUT**



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
BLOCKOUT AT COLUMN**

DATE  
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TYPE	REINFORCING LOCATION	8" WALL	12" WALL	REMARKS
VERTS	VERTICAL BARS	(1)#5@16" OC SINGLE CENTERED, UNO	(2)#6@16" OC DOUBLE CENTERED, UNO	SEE NOTE 7
	JAMB BARS	(1)#5 FOR TWO CELLS (TOTAL OF 2 BARS), UNO	(2)#6 FOR TWO CELLS (TOTAL OF 4 BARS), UNO	SEE 04 22 00-03
	CORNERS/ INTERSECTIONS	(3 TOTAL) #5 @ CORNER (2 TOTAL) #5 @ INTERSECTION	(2)#6	SEE 04 22 00-03
	MCJ	(1)#5 FOR TWO CELLS EACH SIDE OF MCJ (TOTAL OF 4 BARS), UNO	(2)#6 DOUBLE CENTERED EA SIDE, UNO	SEE 04 22 00-03
HORIZ	TOP OF WALL BOND BEAMS	(2)#5 UNO	(2)#5 UNO	
	HORIZ JOINT REINF	9 GAGE WIRE, TRUSS TYPE JOINT REINF @ 16" OC BETWEEN BOND BEAMS	9 GAGE WIRE, JOINT REINF AT 16" VERT SPACING BETWEEN BOND BEAMS	
	BELOW OPENINGS	TYP. SEE MASONRY LINTEL REINFORCEMENT SCHEDULE AND DETAIL	(2)#5	
	INTERMEDIATE BOND BEAMS	(1)#5@32" VERT SPACING	(1)#5@16" VERT SPACING	AND WHERE NOTED ON DWGS. SEE NOTE 7

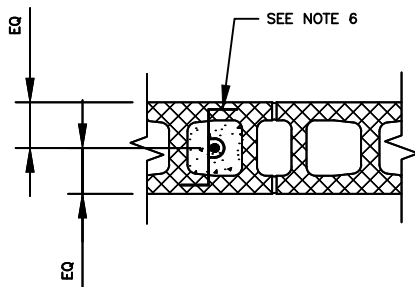
**NOTES:**

1. WORK THIS SCHEDULE WITH DETAILS 04 22 00-01A AND 04 22 00-02.
2. GROUT SOLID ALL REINFORCED CELLS.
3. FOR CMU LAPS, SEE 04 22 00-04.
4. FOR REINFORCING AT CMU LINTELS, SEE DETAILS 04 22 00-05 AND 04 22 00-02.
5. FOR SPECIAL REINFORCING AT CMU PIERS, SEE DETAIL 04 22 00-07.
6. FOR LOCATIONS REQUIRING ADDITIONAL REINFORCEMENT, SEE STRUCTURAL DRAWINGS.
7. BAR SPACING NOT TO EXCEED THE SMALLER OF 1/3 THE HEIGHT OF THE SHEAR WALL AND 1/3 THE LENGTH OF THE SHEAR WALL.

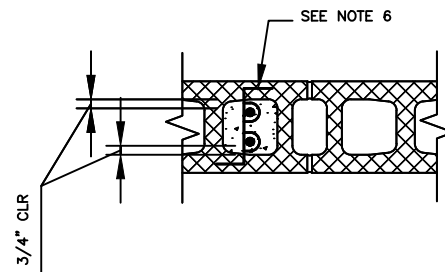


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CMU REINFORCING SCHEDULE**

DATE  
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DETAIL NUMBER  
04 22 00-01



**SINGLE CENTERED**



**DOUBLE CENTERED**

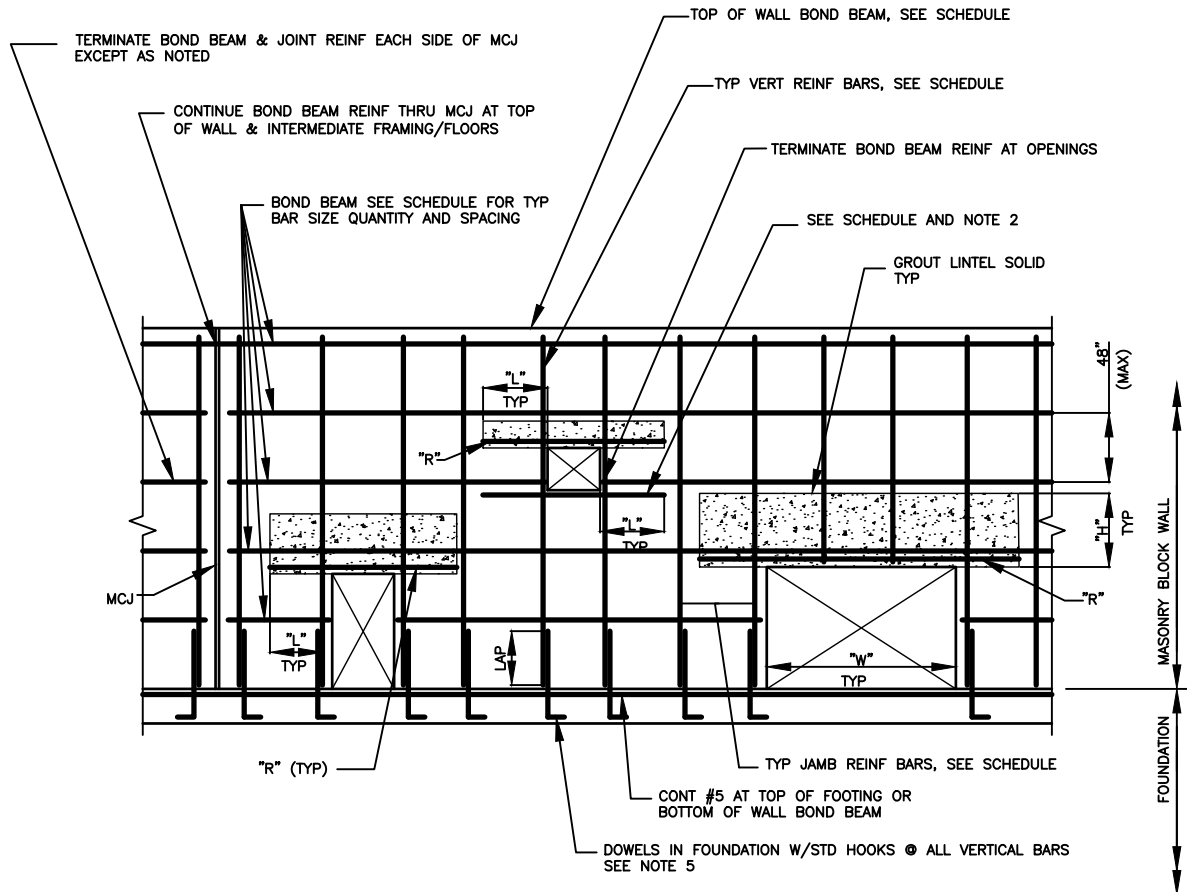
**NOTES:**

1. THESE NOTES AND DETAILS APPLY TO **04 22 00-01** ON PREVIOUS PAGE.
2. PROVIDE REINFORCING NOTED FOR ALL MASONRY WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. MAINTAIN MINIMUM 3" X 3" CONTINUOUS VERTICAL CELL AT EACH REBAR. PLACE WALLS TO MAXIMUM 4'-0" HEIGHT BEFORE GROUTING.
4. PLACE REBAR IN WALL WITH LAP SPLICE LENGTH PER **04 22 00-04**
5. GROUT ALL CELLS SOLID AND PROVIDE REINFORCING AS INDICATED IN THE SCHEDULE. LOCATE ONE VERTICAL RUN OF REINFORCEMENT AT ALL CORNERS AND EACH SIDE OF ALL MCJ'S.
6. PROVIDE WIRE REBAR POSITIONERS TO HOLD BARS IN PLACE.
7. STOP GROUT POUR 1/2" BELOW TOP OF COURSE AT EACH GROUT LIFT.
8. VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AT FLOOR LEVEL.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
NOTES & DETAILS FOR CMU REINFORCING SCHEDULE**

DATE  
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04 22 00-01A



**WALL ELEVATION**

**NOTES:**

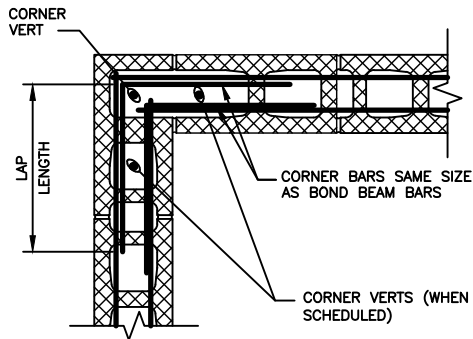
1. SEE DETAIL **04 22 00-05** FOR LINTEL REINFORCING AND NOTES.
2. ONLY LINTEL GROUT IS SHOWN FOR CLARITY.
3. WHERE OTHER DRAWING DETAILS INDICATE SOLID MASONRY SILL, PLACE BOND BEAM REINF IN FIRST COURSE BELOW SOLID CMU.
4. PROVIDE BOND BEAM AT ALL ELEVATED FLOORS WITH SAME REINFORCING AS TOP OF WALL, UNO.
5. STRAIGHT BARS EMBEDDED ONE CONCRETE LAP LENGTH INTO CONC FOUNDATION MAY BE USED AT CONTRACTOR'S OPTION.
6. "R" SHALL NOT BE SPLICED.
7. SHORE LINTEL MINIMUM 7 DAYS AFTER GROUTING.
8. STOP REINFORCING "R" 2" SHORT OF DISTANCE L AT MCJ'S



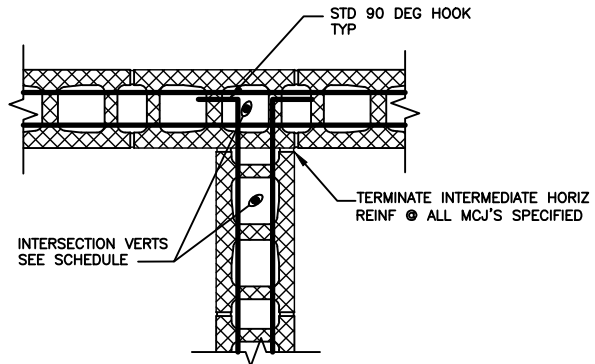
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CMU REINFORCING ELEVATION**

DATE  
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DETAIL NUMBER  
04 22 00-02

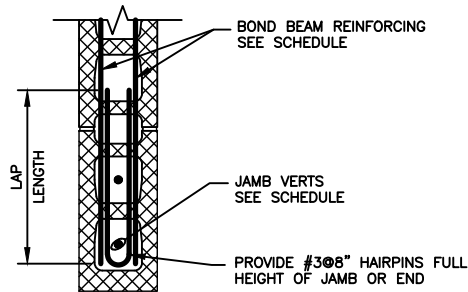




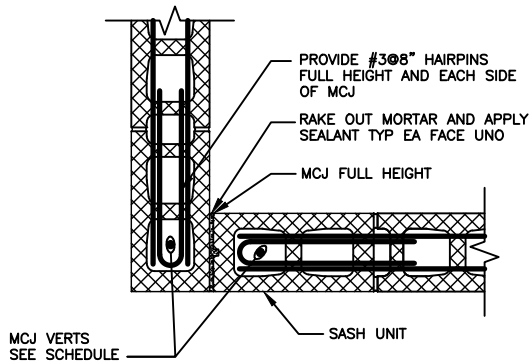
**CORNER**



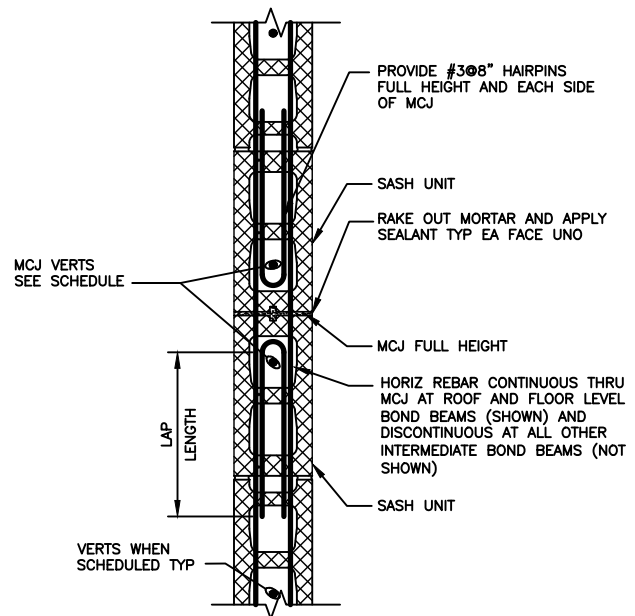
**INTERSECTION**



**JAMB OR END OF WALL**



**MASONRY CONTROL JOINT (MCJ)  
AT CORNER**



**MASONRY CONTROL JOINT (MCJ)**

**NOTES:**

1. FOR REINFORCING SEE "CMU REINFORCING SCHEDULE".
2. ● INDICATES LOCATION OF VERT BARS @ CENTERLINE OF WALL, UNO IN SCHEDULE.
3. EXTEND MCJ FULL HEIGHT OF MASONRY WALL.
4. LIMIT DISTANCE BETWEEN MCJ TO MAX 24'-0". SEE DRAWINGS FOR LOCATIONS.
5. HORIZONTAL JOINT REINFORCING NOT SHOWN.
6. MODIFY BAR CONFIGURATION SHOWN AS REQUIRED WHERE TWO VERTICAL REINFORCING BARS ARE SHOWN ON THE SCHEDULE.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CMU REINFORCING DETAILS**

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MASONRY LAP SPLICE LENGTHS : f'm=1,900 psi, fy=60,000 psi				
BAR SIZE	8" CMU		12" CMU	
	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE
#3	2'-0"	2'-0"	2'-0"	2'-0"
#4	2'-0"	2'-4"	2'-0"	2'-4"
#5	2'-5"	3'-8"	2'-5"	3'-8"
#6	4'-0"	6'-10"	2'-10"	6'-10"
#7	5'-6"	-	3'-6"	9'-4"
#8	8'-6"	-	5'-4"	14'-0"

**NOTES:**

1. WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-8", USE MECHANICAL TENSION SPLICES WITH LOW LIFT GROUTING.

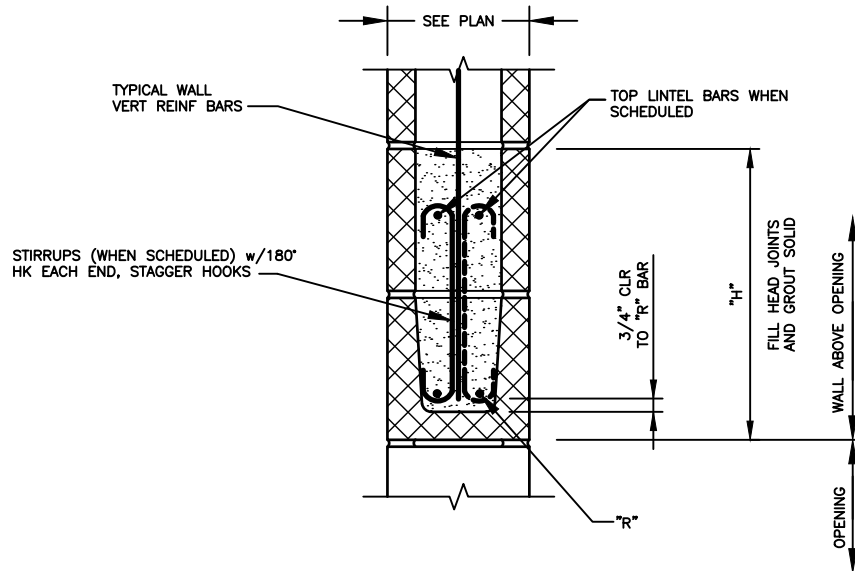


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CMU REINFORCING LAP SCHEDULE**

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LINTEL REINFORCEMENT SCHEDULE						
MARK	"W"	"R"	"L"	"H"	STIRRUPS	REMARKS
ML-1	1'-4" THRU 3'-4"	(1) #5	24"	8"	-	
ML-2	1'-4" THRU 3'-4"	(2) #5	24"	16"	-	
ML-3	3'-5" THRU 6'-8"	(2) #5	24"	24"	-	
ML-4	6'-9" THRU 9'-11"	(2) #6	24"	32"	(2) #3@8"	PLACE FIRST STIRRUP 8" FROM EACH JAMB; PROVIDE (2)#6 TOP LINTEL BARS

\* PROVIDE 2 ROWS OF (2) #7 "R" BARS SPACED AT 2" OC.



**SECTION OF LINTEL AT OPENING**

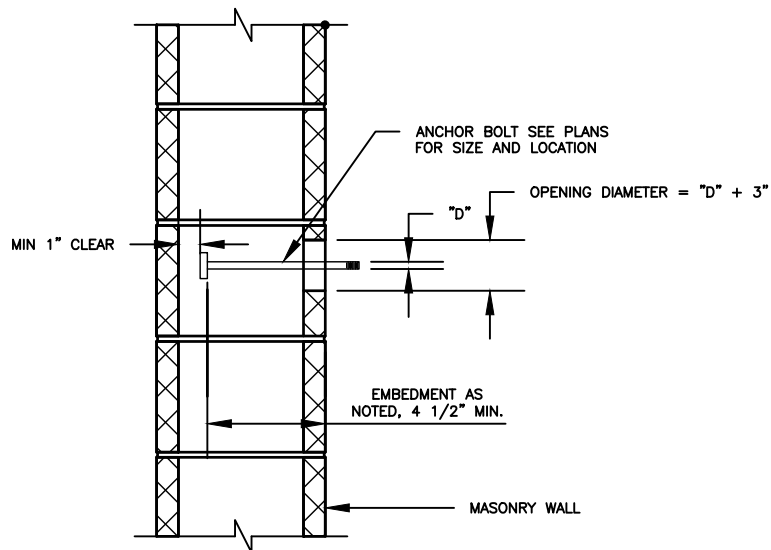
**NOTES:**

1. OPENINGS 8" OR LESS WIDE MAY OCCUR WITHOUT LINTEL REINFORCING AS LONG AS NO REINFORCING IS INTERRUPTED.
2. ML-1 TO BE USED ONLY AT NON-LOAD BEARING SITUATIONS.
3. SEE DRAWINGS FOR LINTEL TYPES. WHERE LINTEL TYPES ARE NOT SHOWN, PROVIDE LINTELS FROM THE ABOVE SCHEDULE BASED ON THICKNESS OF WALL AND MAX CLEAR OPENING SIZE AND VERIFY LINTEL TYPE w/ ENGINEER PRIOR TO CONSTRUCTION.
4. WHERE "L" CANNOT BE ACHIEVED AT BUILDING CORNER, EXTEND HORIZONTAL REINF AT 90-DEG ANGLE AROUND CORNER.
5. NOT ALL MARKS MAY BE DENOTED ON PLANS. REFER TO "W" OF OPENING FOR APPLICABLE LINTEL.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CMU LINTEL REINFORCING**

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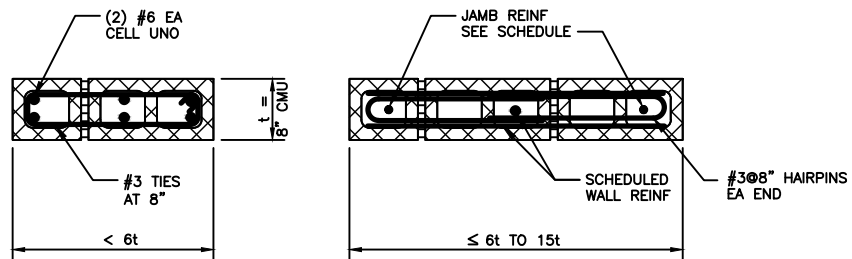
NOTES:

1. SET ANCHOR BOLTS WITH TEMPLATE.
2. CUT BLOCK WEB AS REQUIRED TO ALLOW PLACEMENT OF ANCHOR BOLT TO PROVIDE 1 1/2" CLEAR ANNULAR SPACE AROUND THE ANCHOR BOLT.

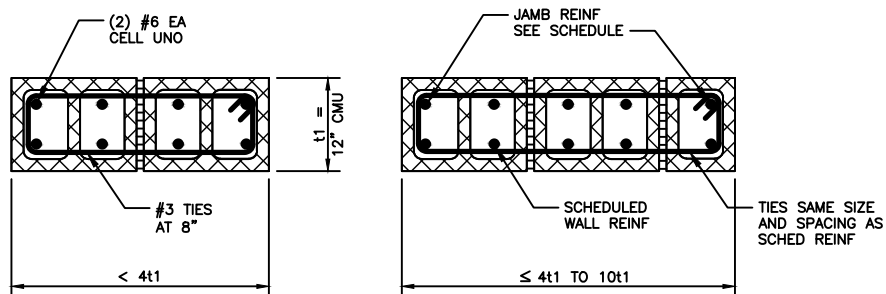


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
ANCHOR BOLT IN MASONRY**

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04 22 00-06



### 8" CMU PIER REINFORCING



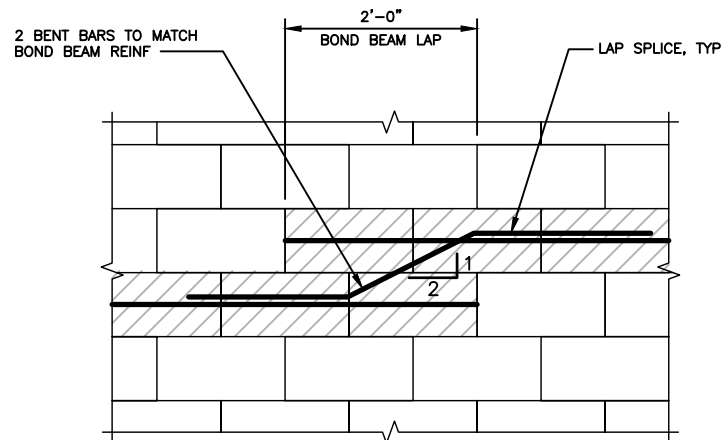
### 12" CMU PIER REINFORCING

NOTE: GROUT ALL CELLS SOLID



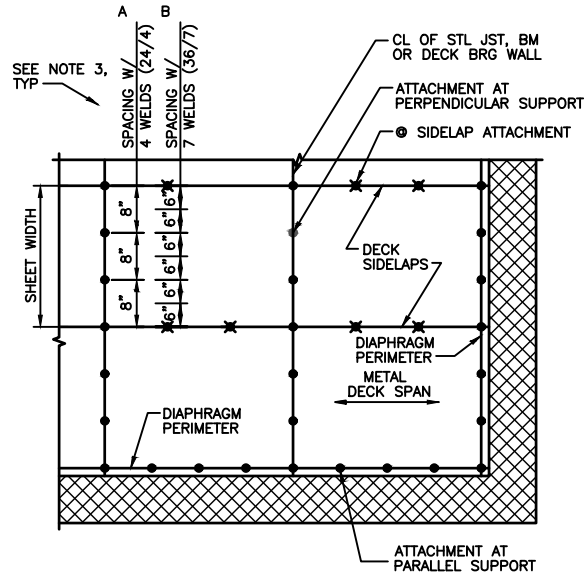
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
REINFORCING AT CMU PIERS**

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04 22 00-07



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
STEPPED BOND BEAM**

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DECK ATTACHMENT SCHEDULE			
ATTACHMENT TYPE	ATTACHMENT ● SUPPORTS	ATTACHMENT ● SIDELAPS	REMARKS
B	36/7: 7-5/8" DIA PUDDLE PER 36" WIDE SHEET	5/8"X 1 1/2" ARC SEAM WELD ● 18"	USE FOR 1.5" ROOF DECK

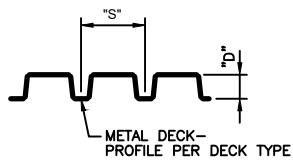
**NOTES:**

1. DIAPHRAGM PERIMETER SHALL BE ATTACHED WITH MOST STRINGENT AT POINTS PARALLEL AS APPLICABLE PER SCHEDULE.
2. WELDING SHALL BE 5/8" DIA PUDDLE WELD. SPACING AS INDICATED PER SCHEDULE.
3. SEE TABLE FOR ATTACHMENT SCHEDULE.
4. UES ER-2018 OR EQUAL SHALL BE SATISFIED.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL METAL DECK**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 30 00-01



NOTE:  
FOR DECK WELDING, SEE DETAILS.

METAL DECK SCHEDULE									
LOCATION	DECK TYPE	RIB SPACING "S"	DEPTH "D"	GAGE	MINIMUM SECTION PROPERTIES				REF DETAIL
					$I_{xg}$ in <sup>4</sup> /ft	$I_e$ in <sup>4</sup> /ft	$S_{ft}$ in <sup>3</sup> /ft	$S_e$ in <sup>3</sup> /ft	
ROOF (WHERE NOTED ON PLANS)	PLB	6"	1 1/2"	20	0.212	0.212	0.231	0.243	05 30 00-01

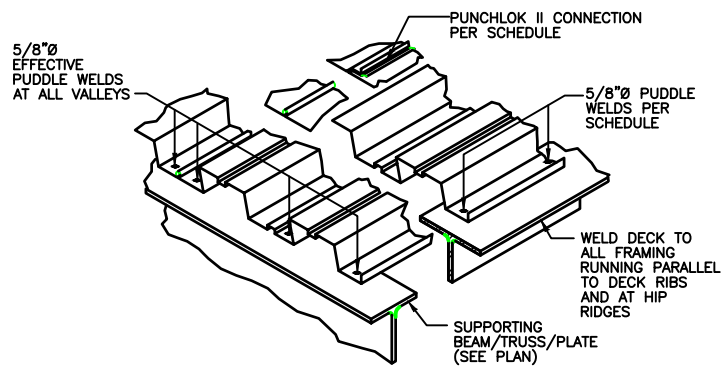
NOTE: UES-ER-2018 OR EQUAL SHALL BE SATISFIED.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
METAL DECK SCHEDULE**

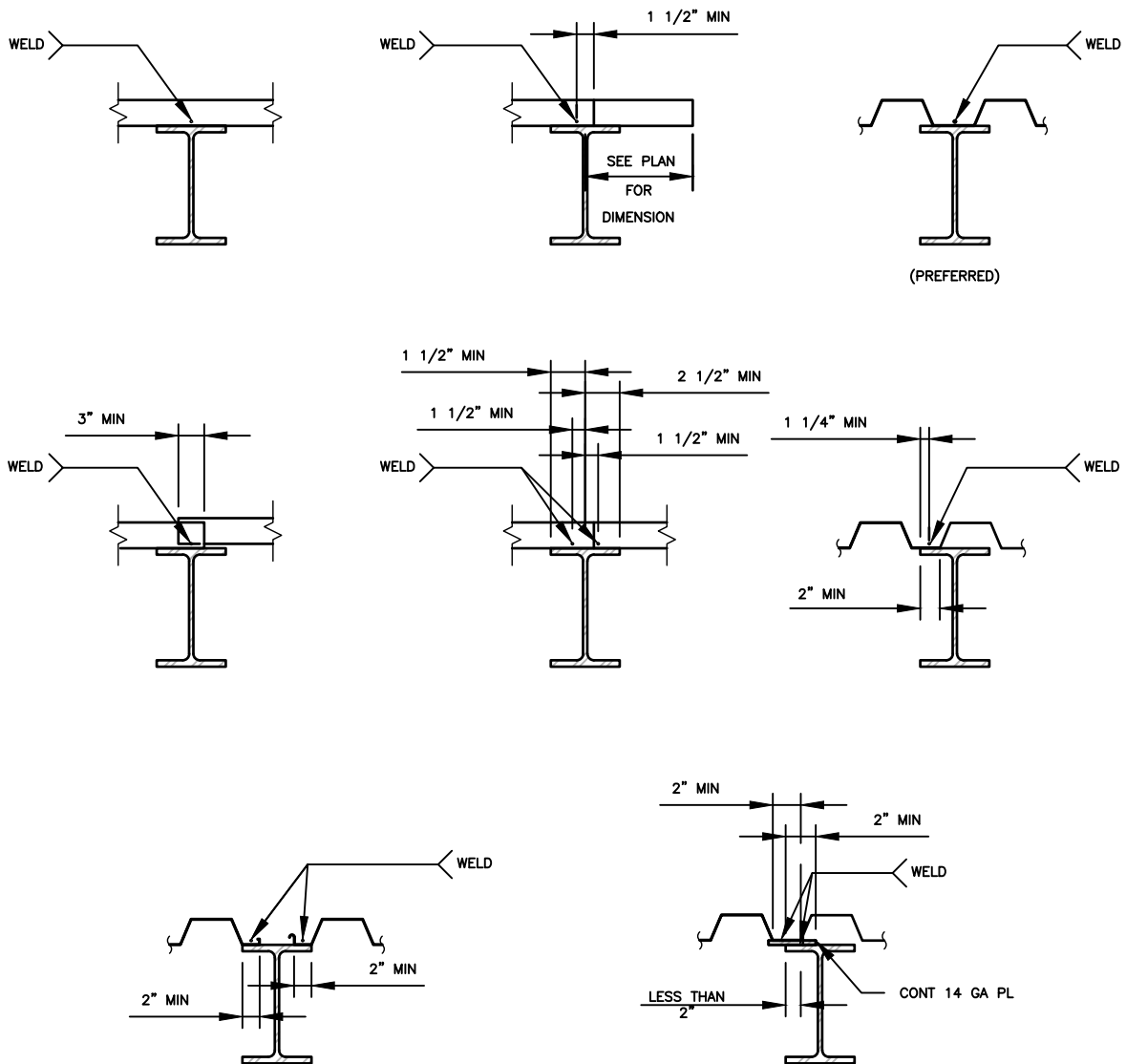
DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 30 00-02





**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
METAL DECK WELDING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 30 00-03



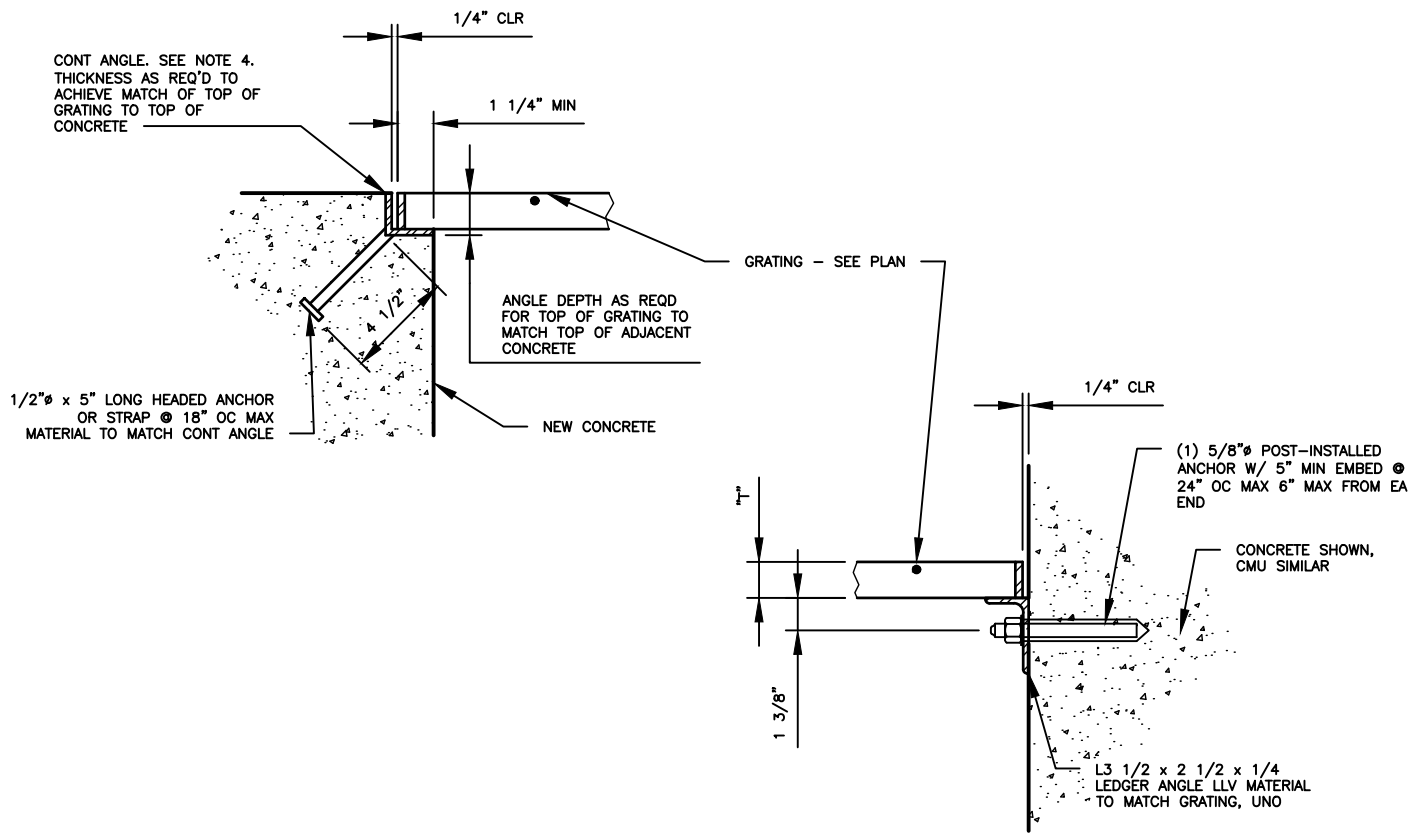
**NOTE :**

1. SEE DETAIL 05 30 00-01 FOR WELDS.
2. DETAILS SHOWN FOR WF STEEL ATTACHMENT, SIMILAR AT JOIST, HSS, ANGLE, OR CHANNEL SUPPORT.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL METAL DECK TO BEAM/JOIST WELD DETAILS**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 30 00-04



**TO BE USED AT CONT WALL ABOVE GRATING**

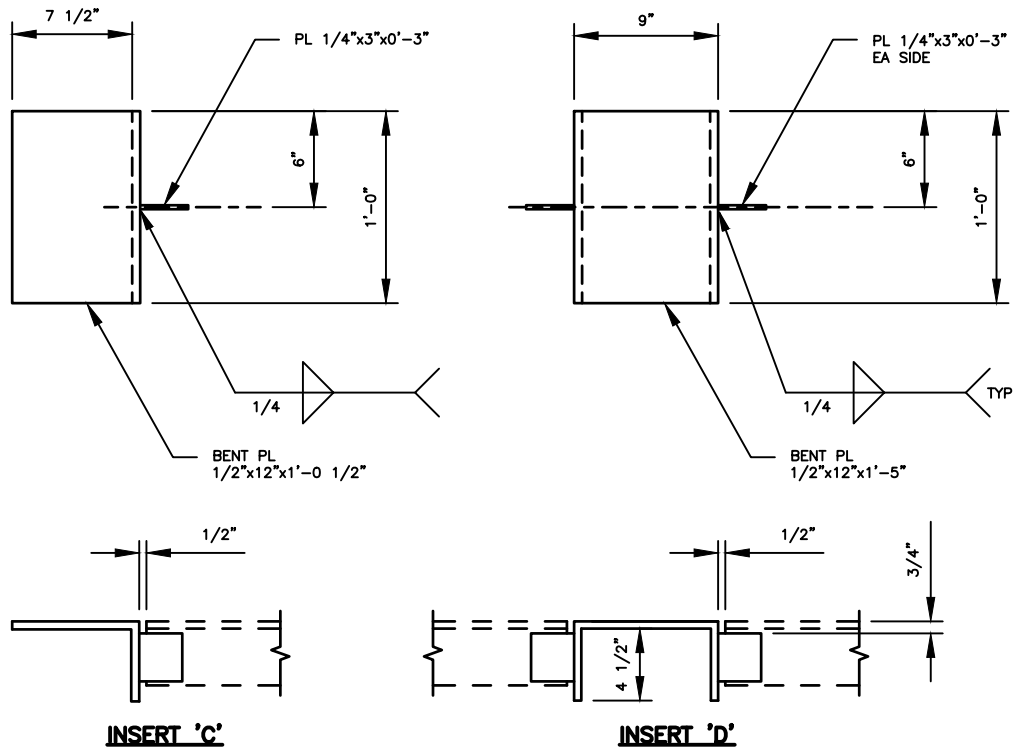
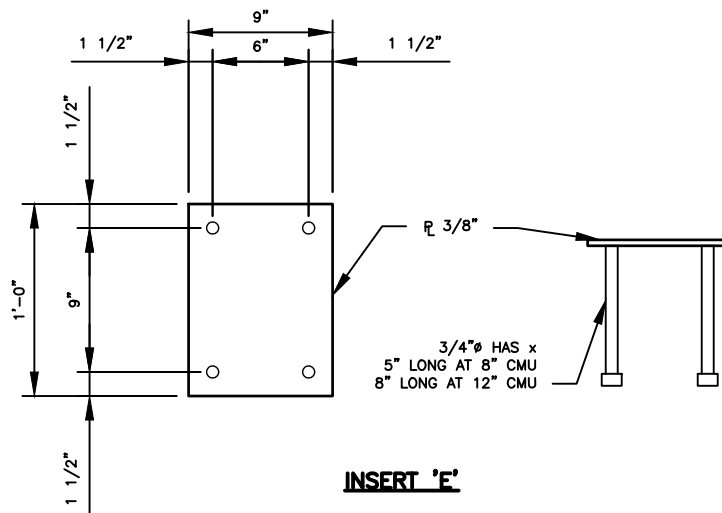
**NOTES:**

1. GRATING SIZE AND MATERIAL PER CONTRACT DOCUMENTS. ANCHORS SHALL BE TYPE 316 SST.
2. ALL ENDS AND OPENINGS SHALL BE BANDED, SEE SPECIFICATION.
3. ATTACH GRATING TO ALL SUPPORT ANGLES WITH BOLTED CLIPS, SPACED AT 2'-0" MAX CENTERS. PROVIDE SLIP JOINT WHERE GRATING SPANS AN EXPANSION JOINT.
4. ALL ITEMS AND SUPPORT ANGLES SHALL BE SST AT ALUMINUM AND FRP GRATING. AT FRP GRATING, CONTRACTOR OPTION TO PROVIDE EMBEDDED CURB ANGLE PER SPECIFICATIONS.
5. AT COVERED GRATING LOCATIONS, THE TOP OF COVERED GRATING SHALL BE FLUSH WITH THE TOP OF THE CONCRETE.



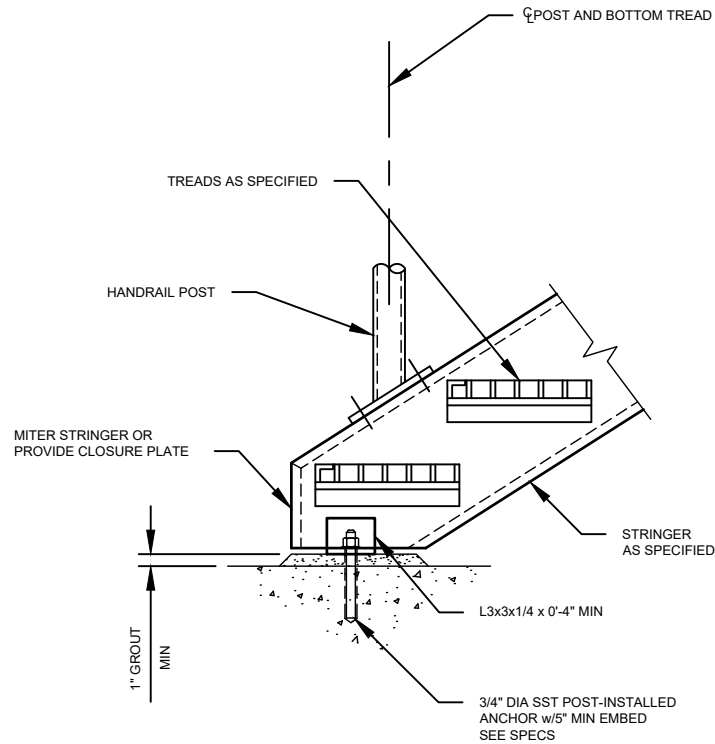
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GRATING AND SUPPORT DETAIL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 50 00-01



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
INSERT DETAILS**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 50 00-02



**NOTES:**

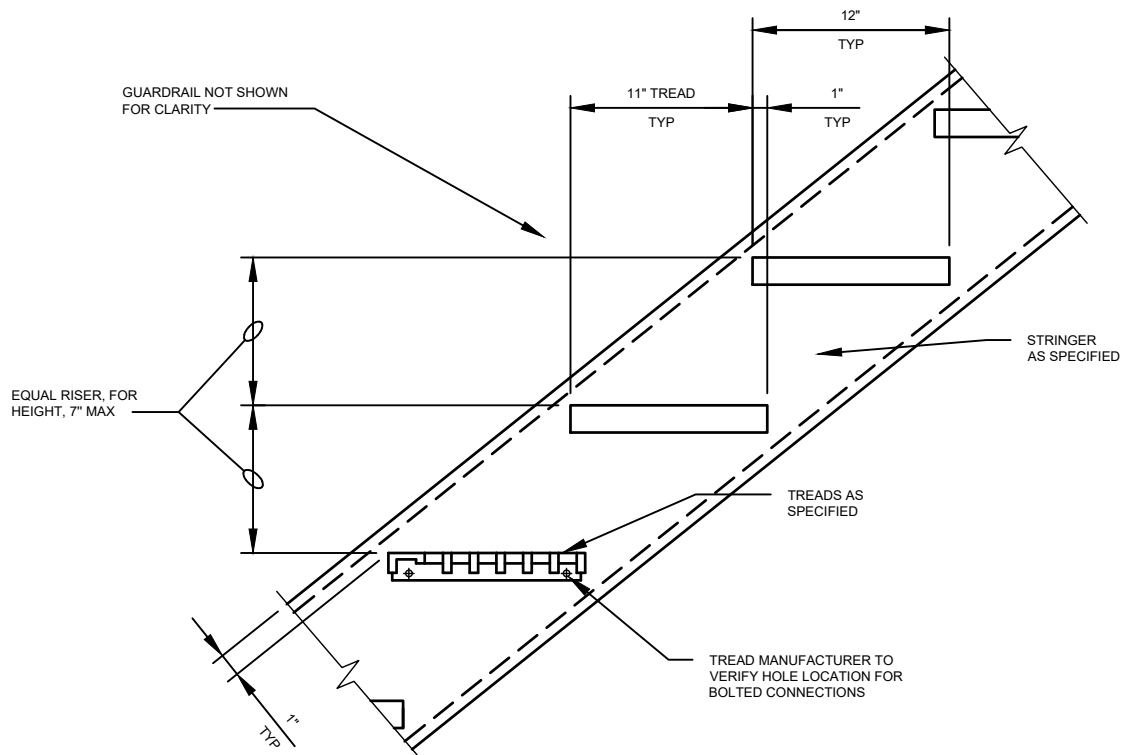
1. ALL STAIRS AND APPURTENANT ITEMS SHOWN ON DRAWINGS SHALL BE ALUMINUM UNLESS SHOWN AS OTHERWISE ON DRAWINGS. ALL FASTENERS SHALL BE STAINLESS STEEL FOR ALUMINUM CONNECTIONS.
2. THIS DETAIL PROVIDED FOR BID PURPOSES AND GENERAL CONFIGURATION REQUIREMENTS ONLY. METAL STAIRS SHALL BE CONTRACTOR-DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS. ASSUME AAC12x8.27 FOR ALUMINUM STRINGERS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
STAIR BOTTOM CONNECTION**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW

DETAIL NUMBER  
05 50 00-03



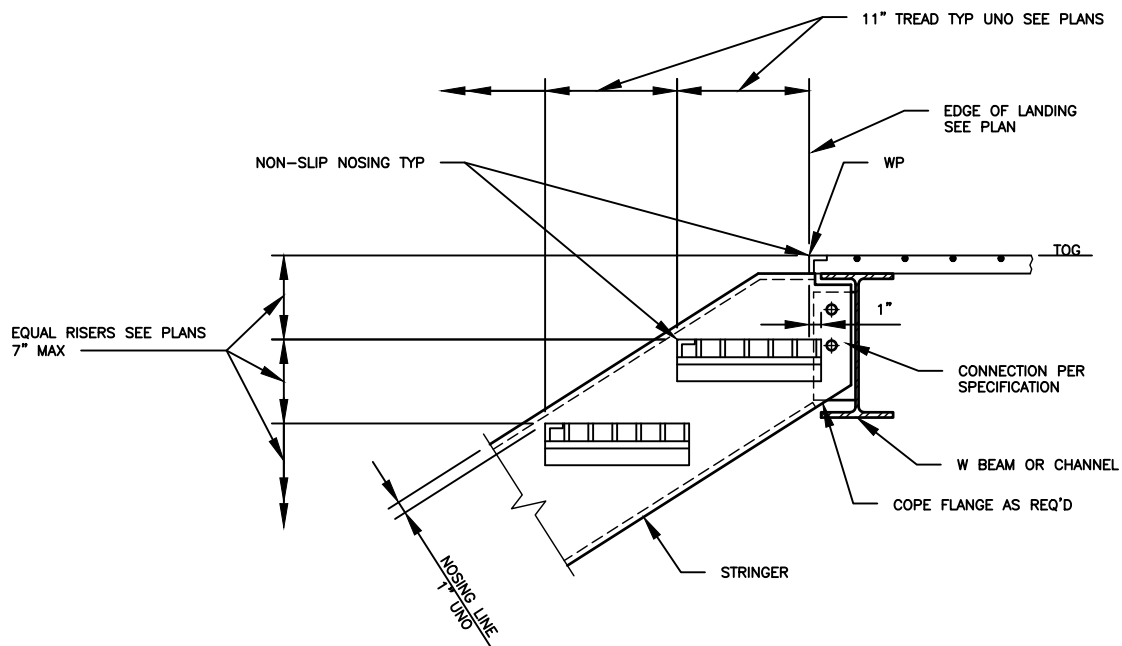
**NOTES:**

1. ALL STAIRS AND APPURTENANT ITEMS SHOWN ON DRAWINGS SHALL BE ALUMINUM UNLESS SHOWN AS OTHERWISE ON DRAWINGS. ALL FASTENERS SHALL BE STAINLESS STEEL.
2. THIS DETAIL PROVIDED FOR BID PURPOSES AND GENERAL CONFIGURATION REQUIREMENTS ONLY. METAL STAIRS SHALL BE CONTRACTOR-DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS. ASSUME AAC12x8.27 FOR ALUMINUM STRINGERS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
STAIR DETAIL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 50 00-04



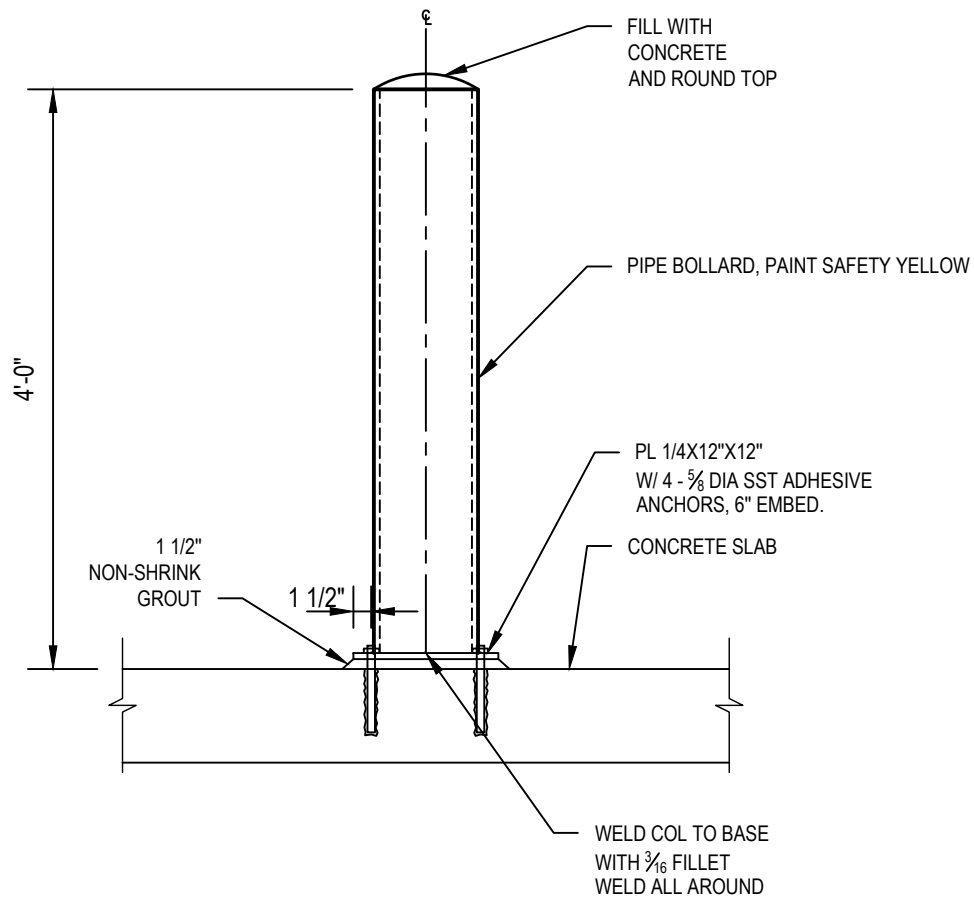
**NOTES:**

1. ALL STAIRS AND APPURTENANT ITEMS SHOWN ON DRAWINGS SHALL BE ALUMINUM UNLESS SHOWN AS OTHERWISE ON DRAWINGS. ALL FASTENERS SHALL BE STAINLESS STEEL.
2. THIS DETAIL PROVIDED FOR BID PURPOSES AND GENERAL CONFIGURATION REQUIREMENTS ONLY. METAL STAIRS SHALL BE CONTRACTOR-DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
STAIR TOP CONNECTION AT BEAM**

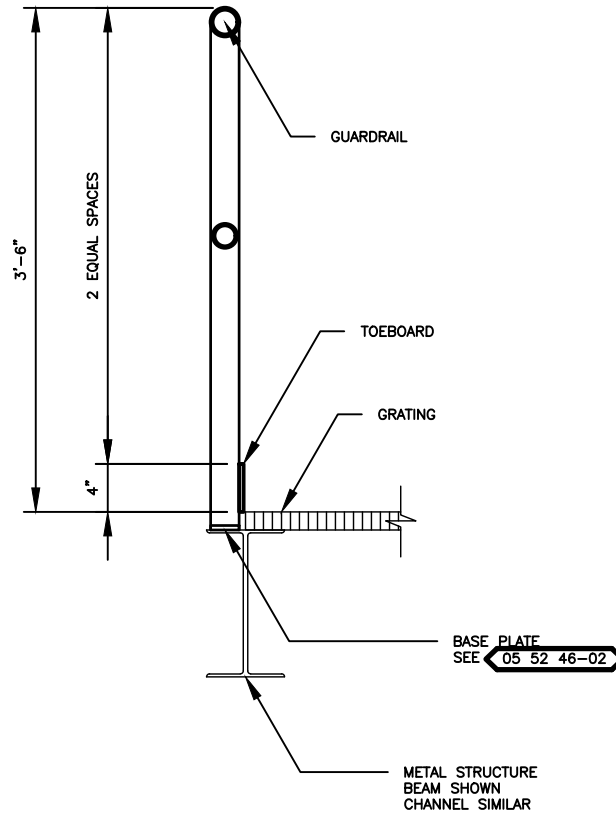
DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 50 00-05



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
SURFACE MOUNTED BOLLARD**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 50 00-06





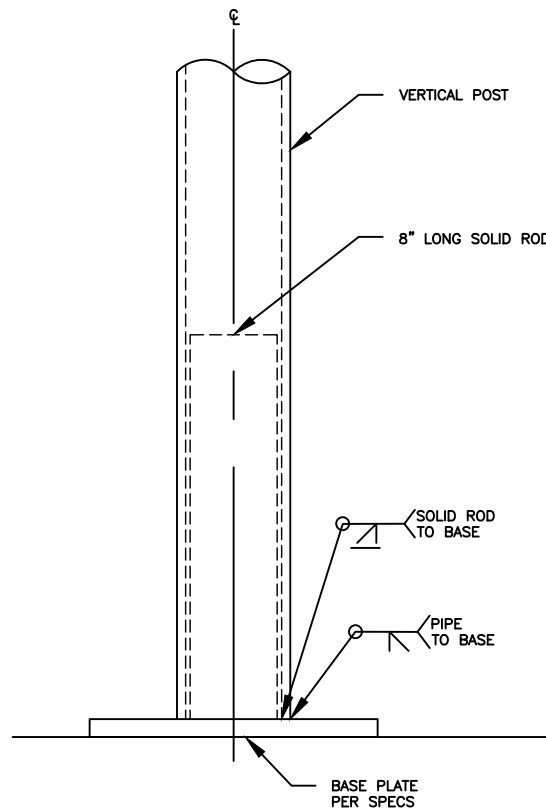
**NOTE:**

1. REFER TO SPECIFICATION SECTION 05 52 46.

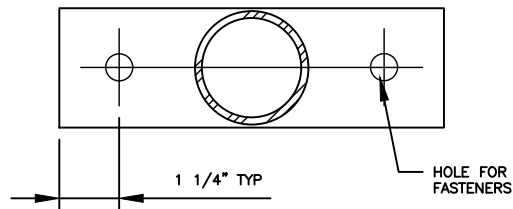


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GUARDRAIL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 52 46-01



**TYPICAL VERTICAL POST**



**BASE PLATE FOR MOUNTING  
TO METAL STRUCTURE**

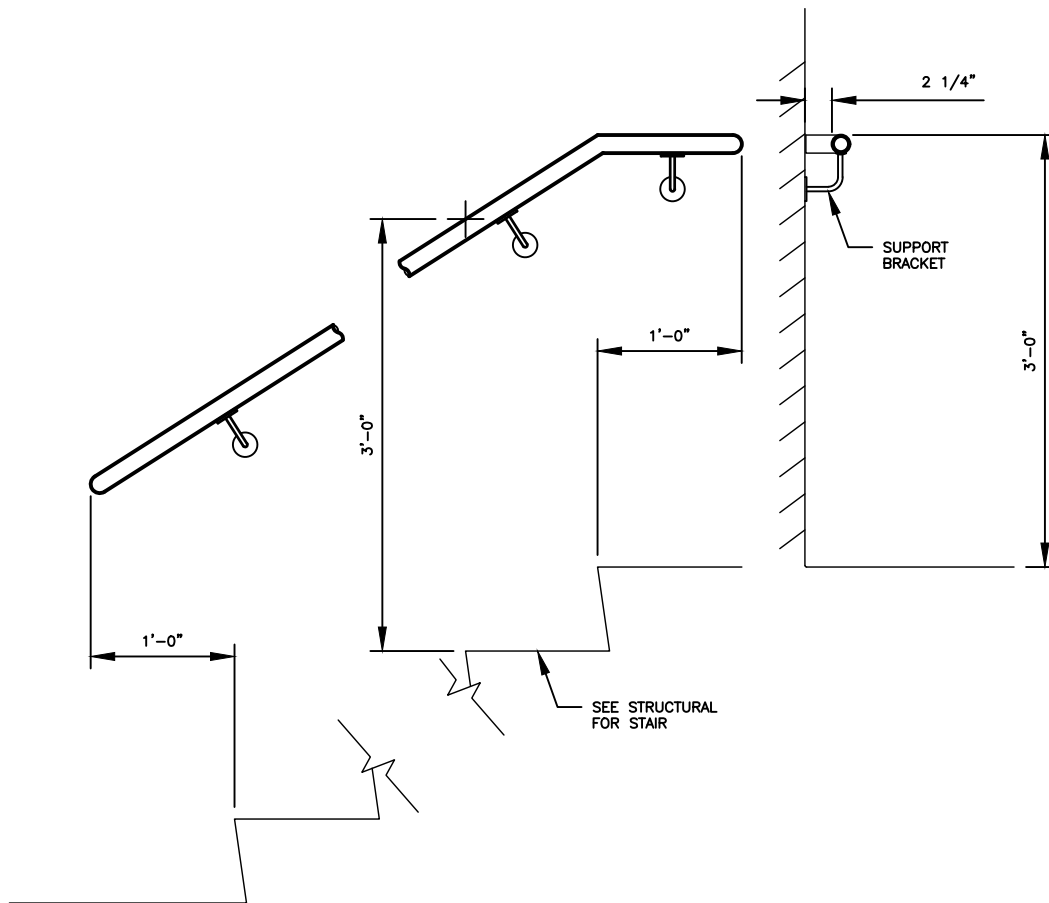
**NOTE:**

1. TOEBOARD NOT SHOWN.



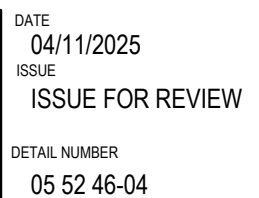
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
ALUMINUM POST BASE PLATE DETAIL**

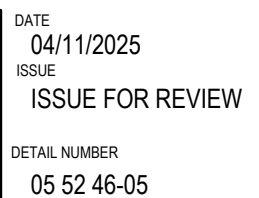
DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 52 46-02



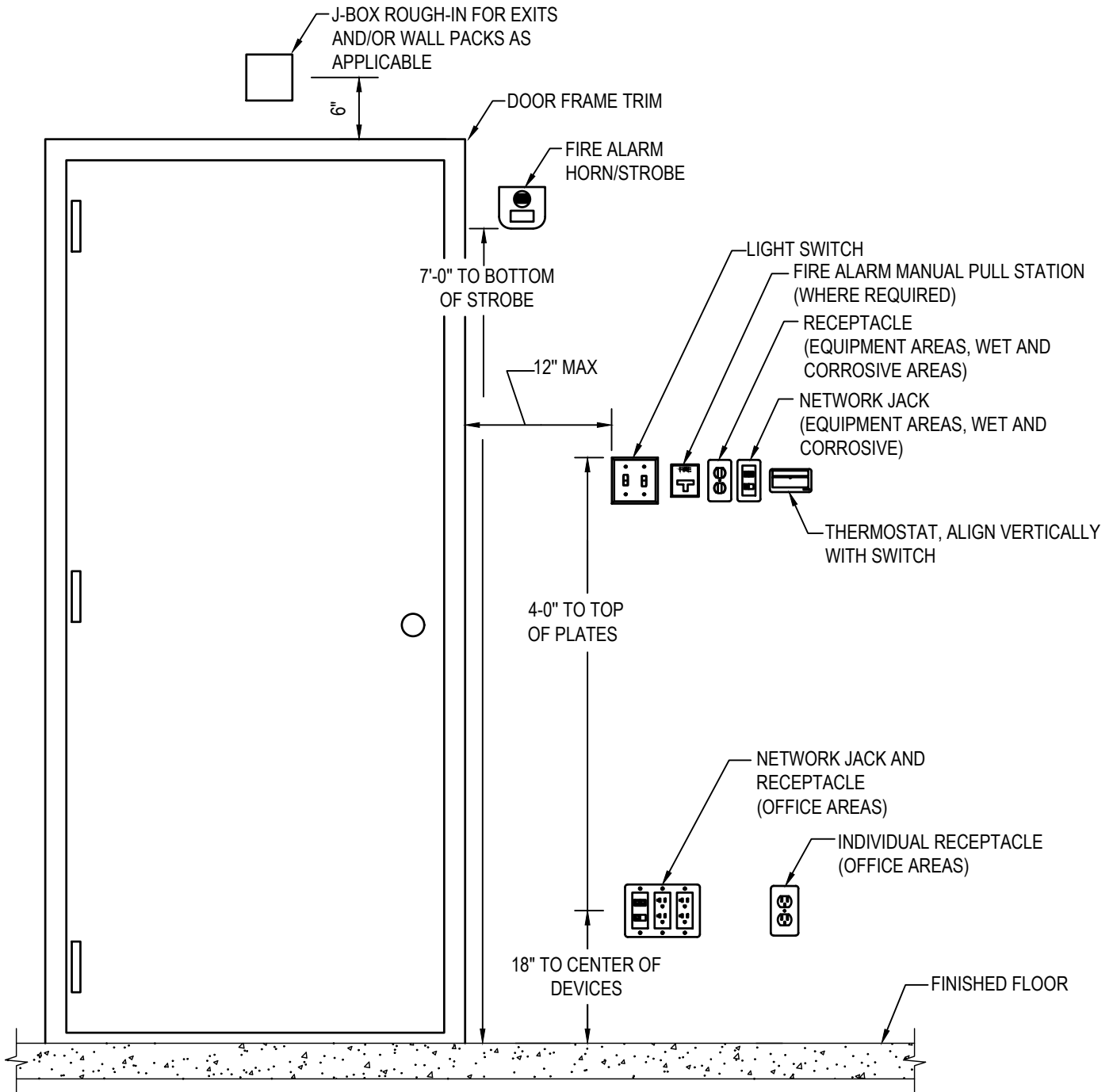
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
WALL MOUNTED HANDRAIL DETAIL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
05 52 46-03









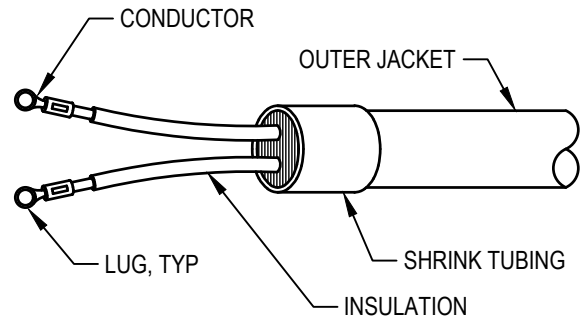
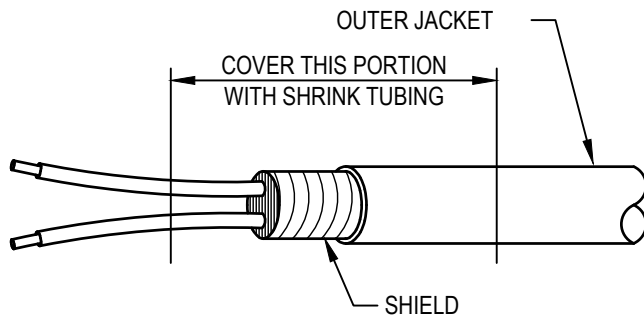
**NOTES:**

1. ALL SWITCHES AND RECEPTACLES SHALL BE EMBEDDED IN THE WALL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

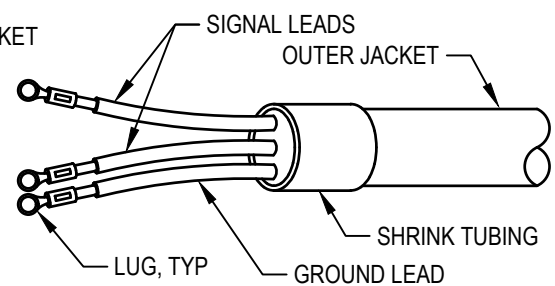
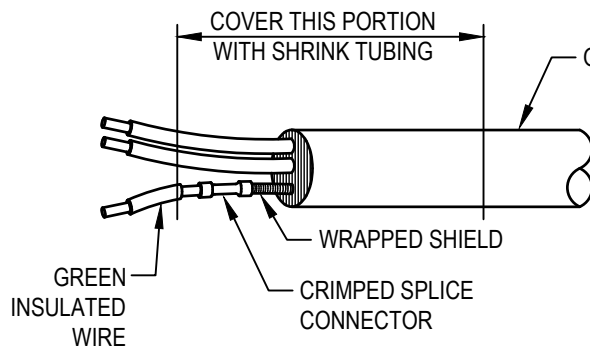
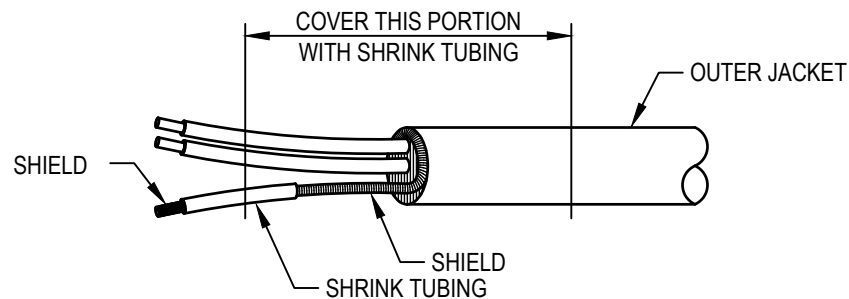


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
OUTLET BOX MOUNTING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 00 10-01



NOTE:  
SHIELD NOT GROUNDED AT TERMINATION



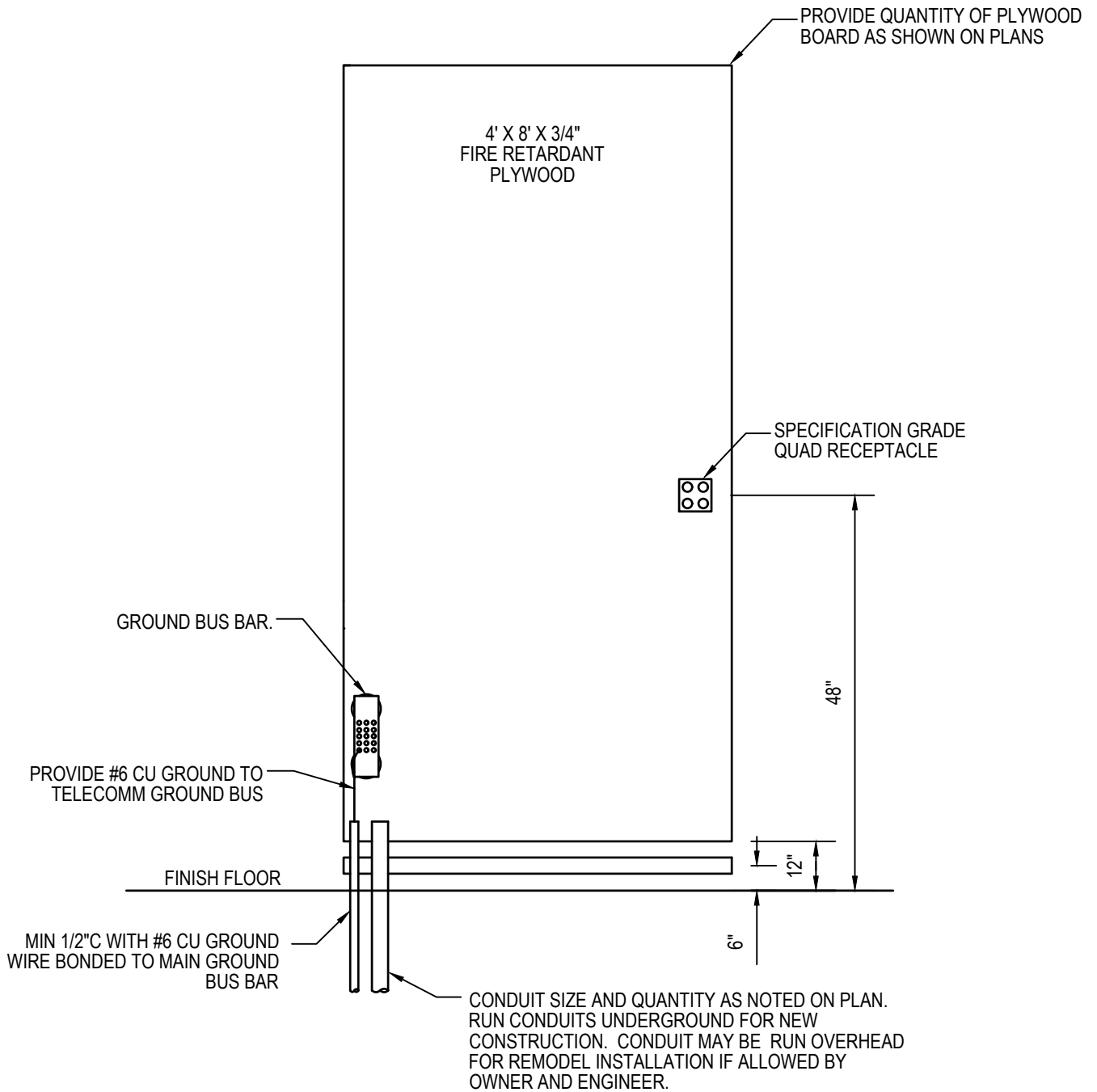
NOTE:  
SHIELD NOT GROUNDED AT TERMINATION



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TERMINATION OF SHIELDED CONTROL CABLES**

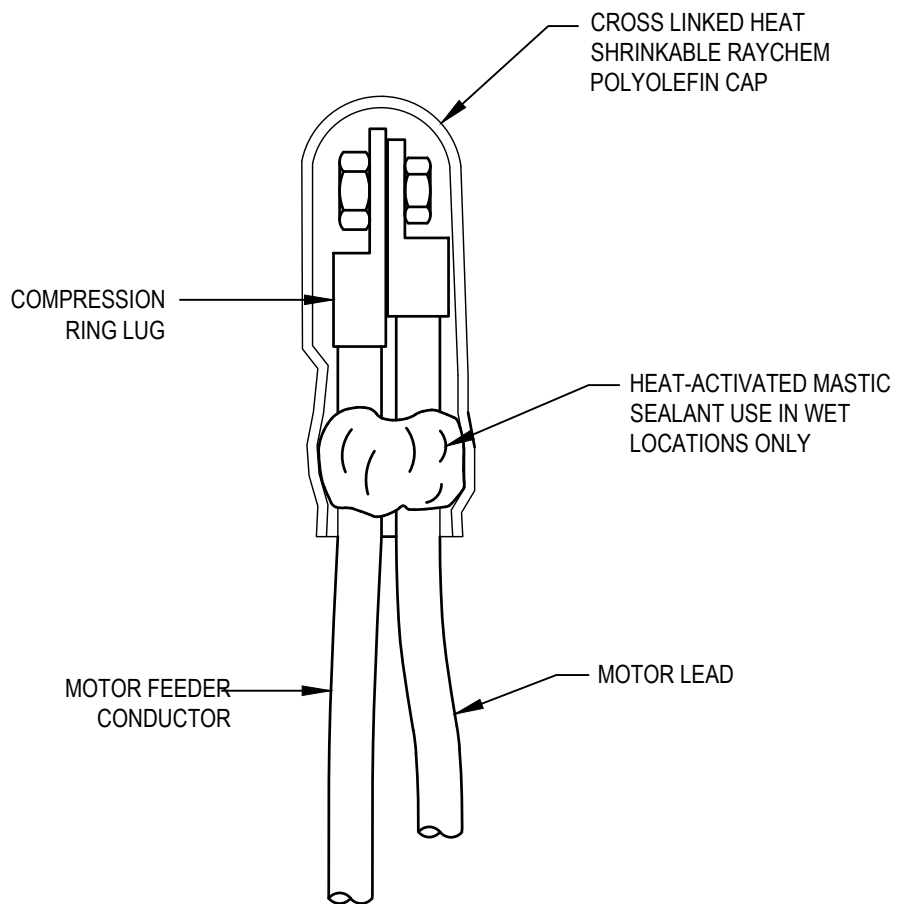
DATE  
04/11/2025  
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DETAIL NUMBER  
26 00 10-02





**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TELEPHONE TERMINAL BOARD**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 00 10-03



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL MOTOR LEAD TERMINATION**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 00 10-04

GENERAL NOTES:

- A. CONDUCTORS SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY THE NEC.
- B. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- C. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
- D. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZED OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.

KEY NOTES:

- 1. INSTALL GROUNDED (NEUTRAL) CONDUCTOR.
- 2. INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN #4 AWG.
- 3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- 4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
- 5. INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- 6. INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATED ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:
  - 6.1. BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN #4 AWG.
  - 6.2. BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN #4 AWG. USING REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

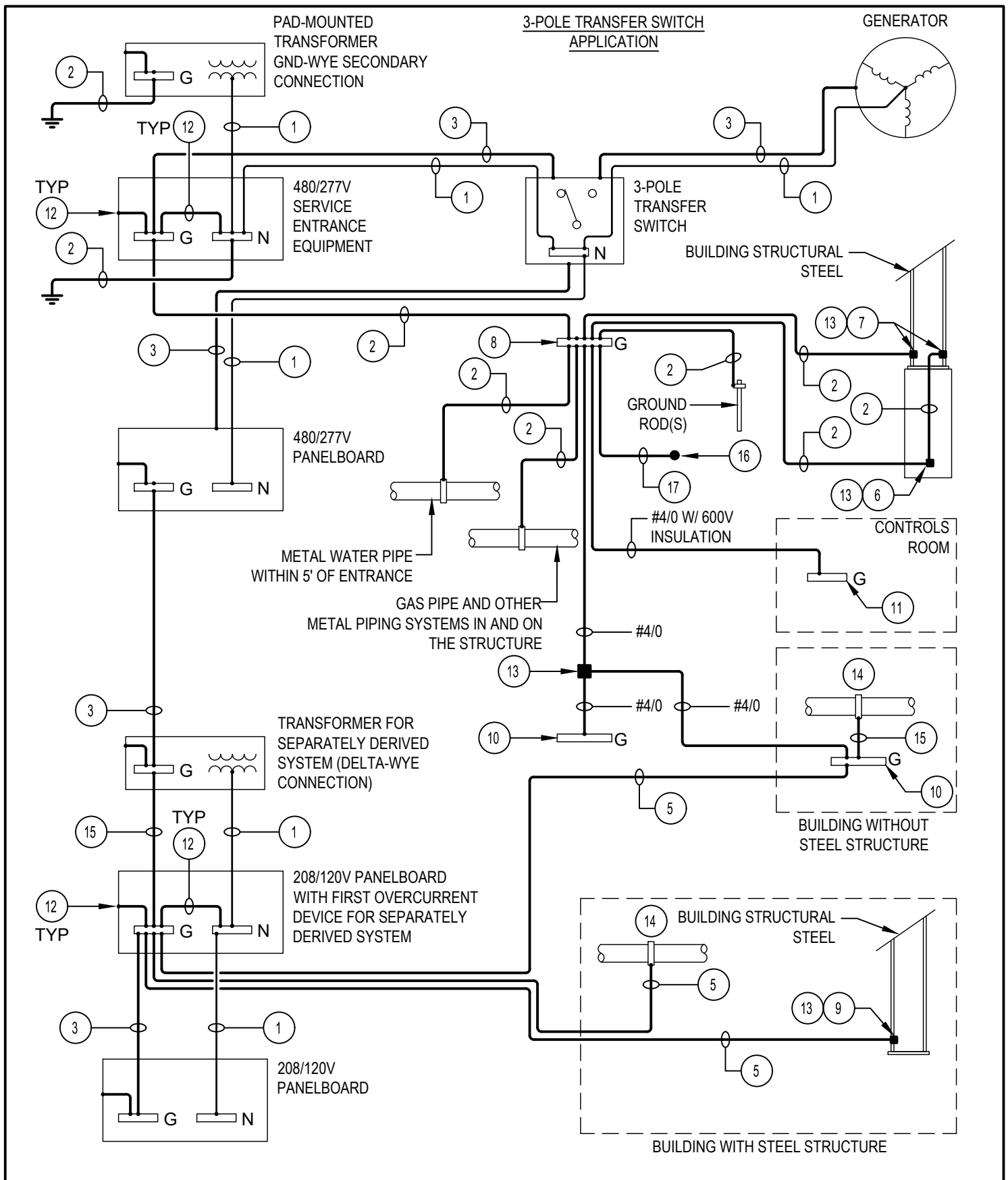
<u>TOTAL LENGTH</u>	<u>MINIMUM REBAR SIZE</u>
112 FT	1-3/8" (#11 BAR)
150 FT	1" (#8 BAR)
192 FT	3/4" (#6 BAR)
223 FT	5/8" (#5 BAR)
266 FT	1/2" (#4 BAR)

- 7. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTORS THAT MEET IEEE 837 REQUIREMENTS OR USE EXOTHERMIC WELDS.
- 8. INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION TO THE GROUND BAR.
- 9. USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVERCURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN 50 FEET OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
- 10. IF THE BUILDING STRUCTURE IS NOT STRUCTURAL STEEL, INSTALL "MAIN GROUNDING ELECTRODE GROUND BAR EXTENSIONS" AT AN ACCESSIBLE AND VISIBLE LOCATION ADJACENT TO SEPARATELY DERIVED SYSTEMS THAT ARE MORE THAN 50 FEET FROM THE "MAIN GROUNDING ELECTRODE GROUND BAR".
- 11. INSTALL A COPPER GROUNDING BAR IN CONTROL ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
- 12. INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- 13. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
- 14. BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
- 15. INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTORS.
- 16. LIGHTNING PROTECTION GROUND COUNTERPOISE. #4/0 AWG COPPER MINIMUM.
- 17. BOND LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO MAIN GROUND ELECTRODE GROUND BAR. USE #4/0 AWG COPPER CABLE (MINIMUM) WITH 600 VOLT INSULATION. USE COMPRESSION CONNECTOR AT UNDERGROUND CONNECTION THAT MEETS IEEE 837 OR USE EXOTHERMIC WELD.



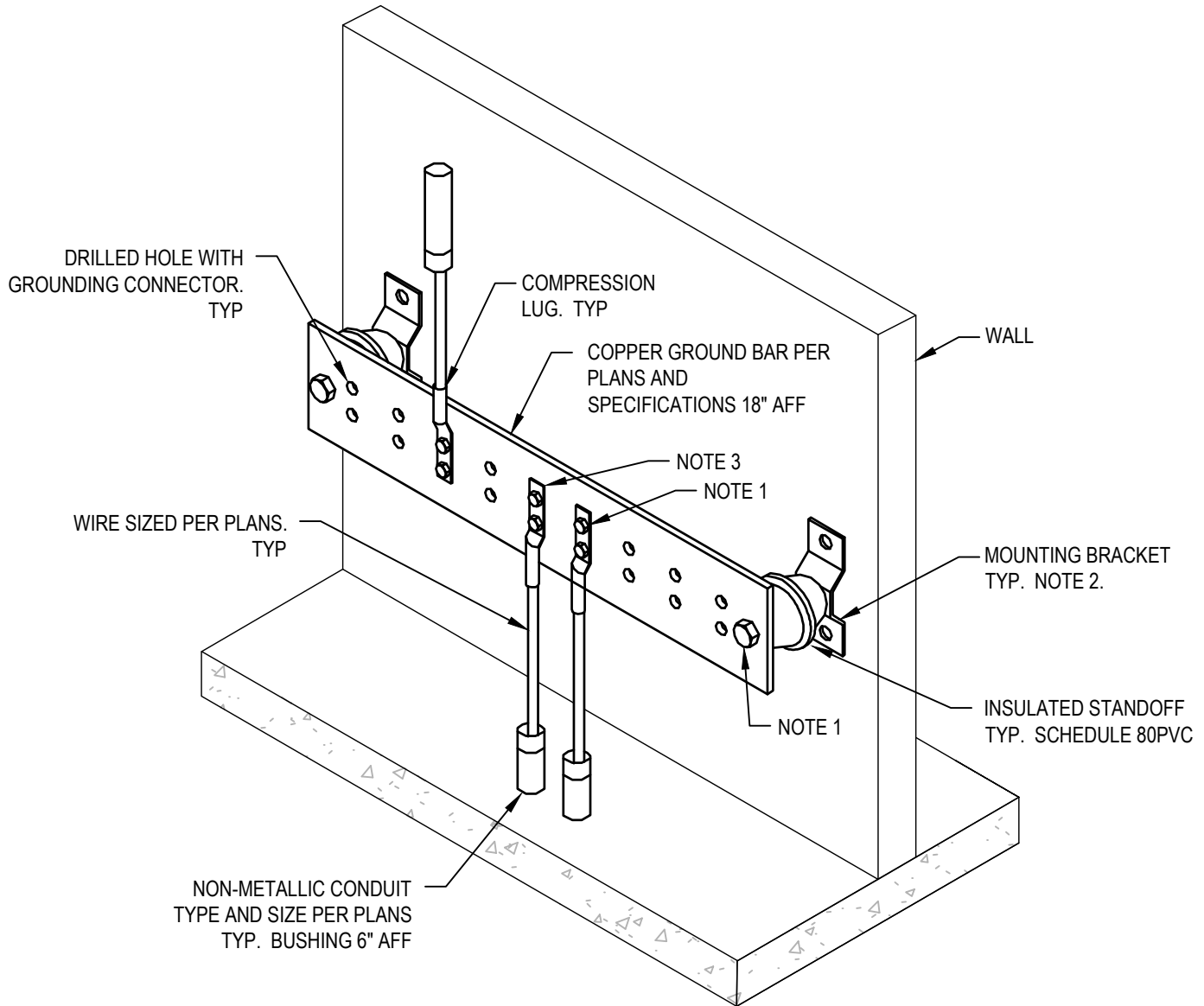
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GROUNDING DIAGRAM (PAGE 1 OF 2)**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 26-01



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GROUNDING DIAGRAM (PAGE 2 OF 2)**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
2605 26-01



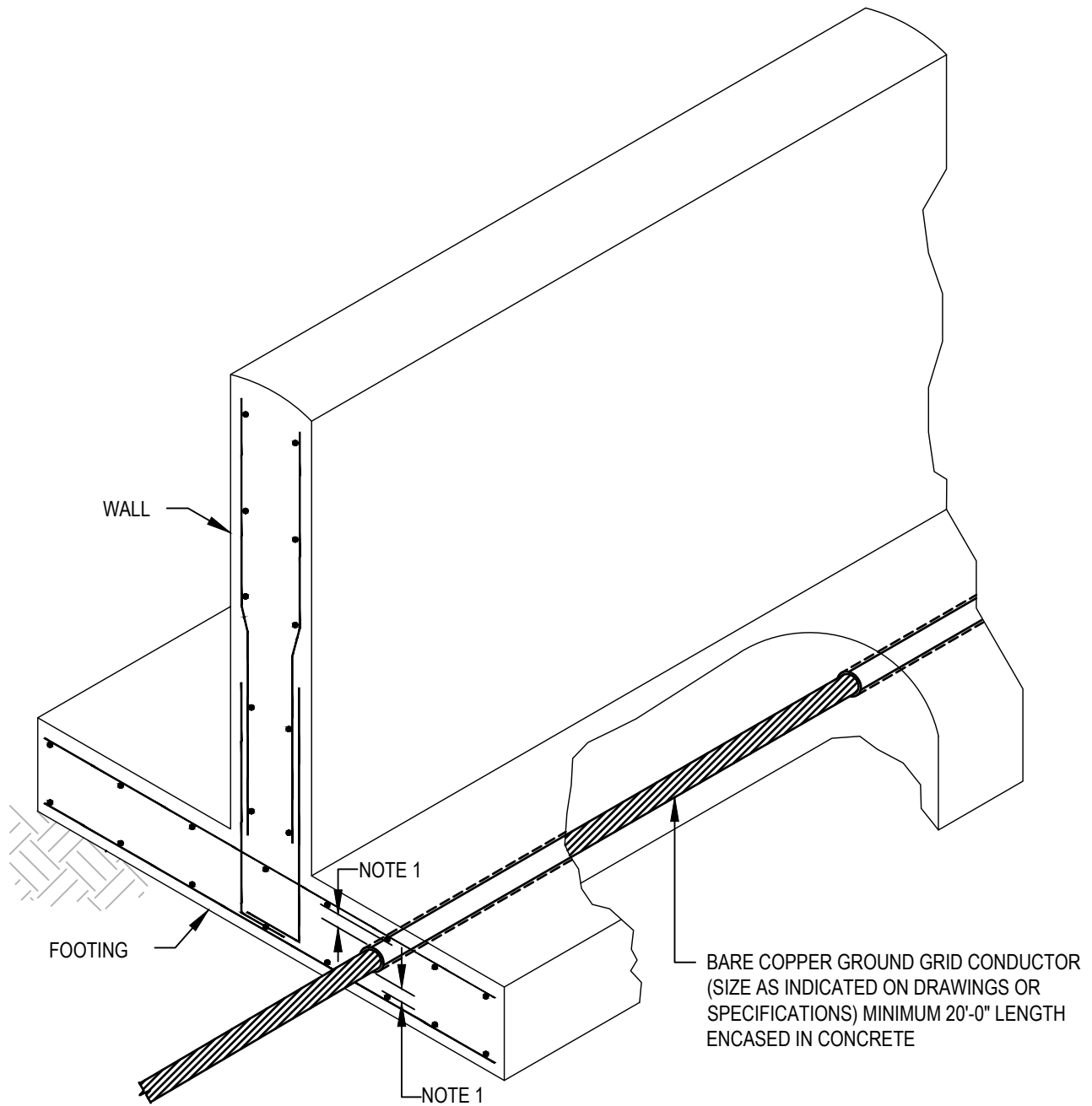
NOTES:

1. SILICON BRONZE BOLTS, NUTS, WASHERS. SIZE TO SUIT. TYPICAL.
2. MAXIMUM SPACING BETWEEN SUPPORTS NOT TO EXCEED 24" ON CENTER.
3. GROUNDING CONNECTOR BURNDY TYPE KC SERVIT POST.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GROUND BUS MOUNTING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 26-02



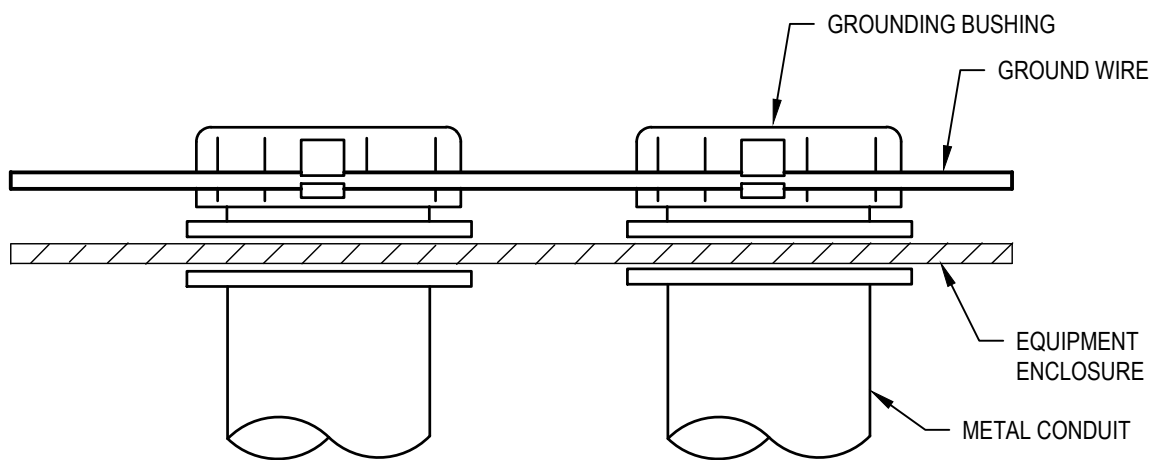
**NOTES:**

1. GROUND GRID CONDUCTOR TO BE FULLY ENCASED IN CONCRETE. PROVIDE MIN 1 1/2" CLEAR BETWEEN CONDUCTOR & REINFORCEMENT, OR BETWEEN CONDUCTOR AND FACE OF CONCRETE.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
UFER GROUNDING CONNECTION TO FOOTING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 26-03



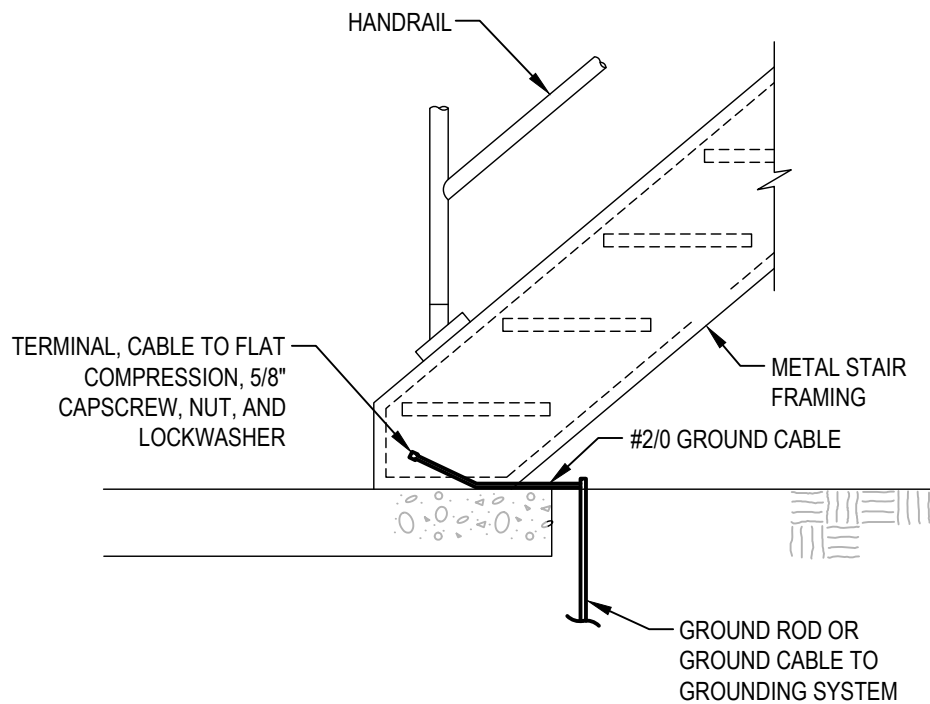
NOTES:

1. THE ENDS OF ALL CONDUITS REQUIRED TO BE GROUNDED SHALL BE GROUNDED IN ACCORDANCE WITH THIS DETAIL.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CONDUIT GROUNDING**

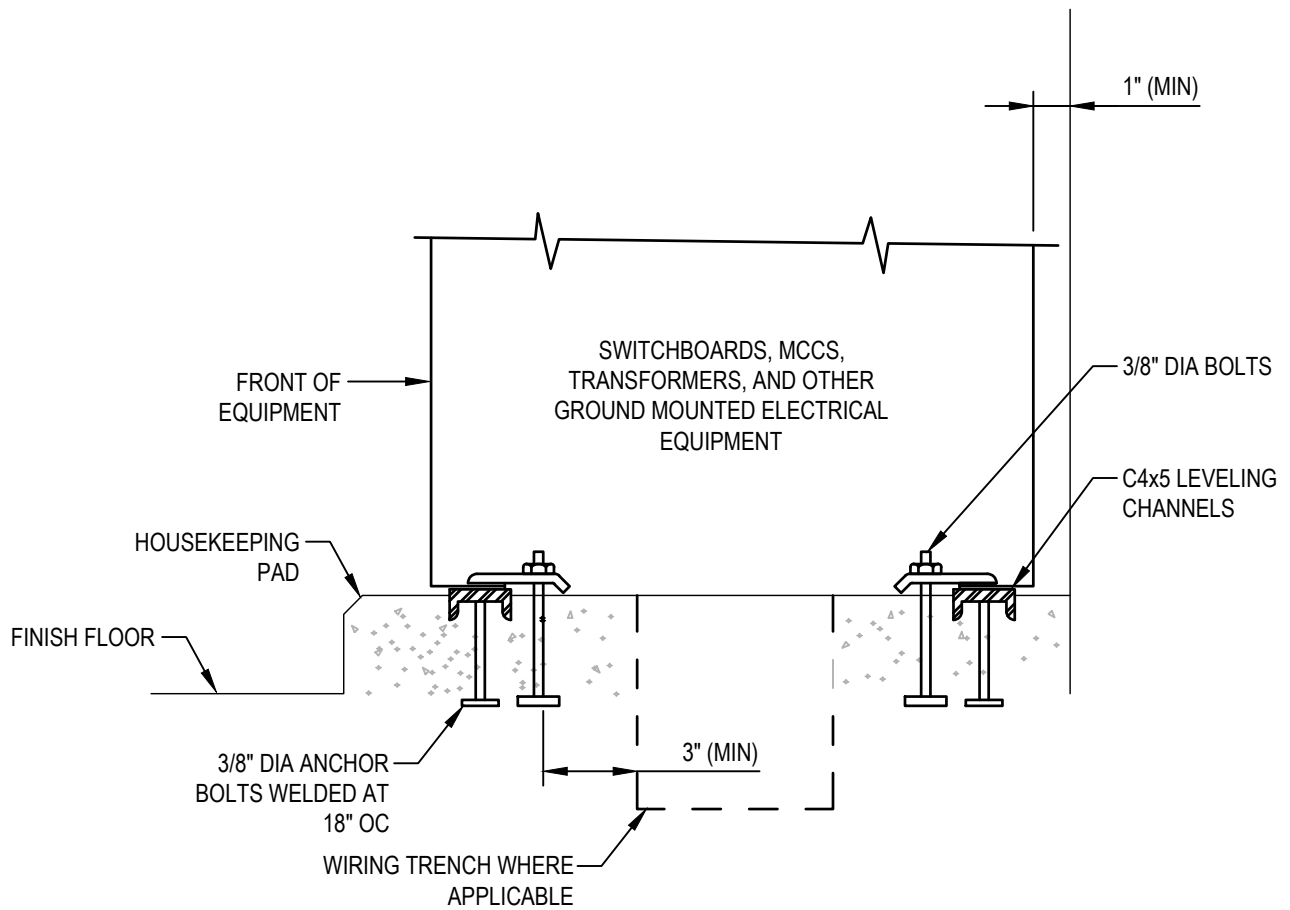
DATE  
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ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 26-04



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
STAIRWAY GROUNDING**

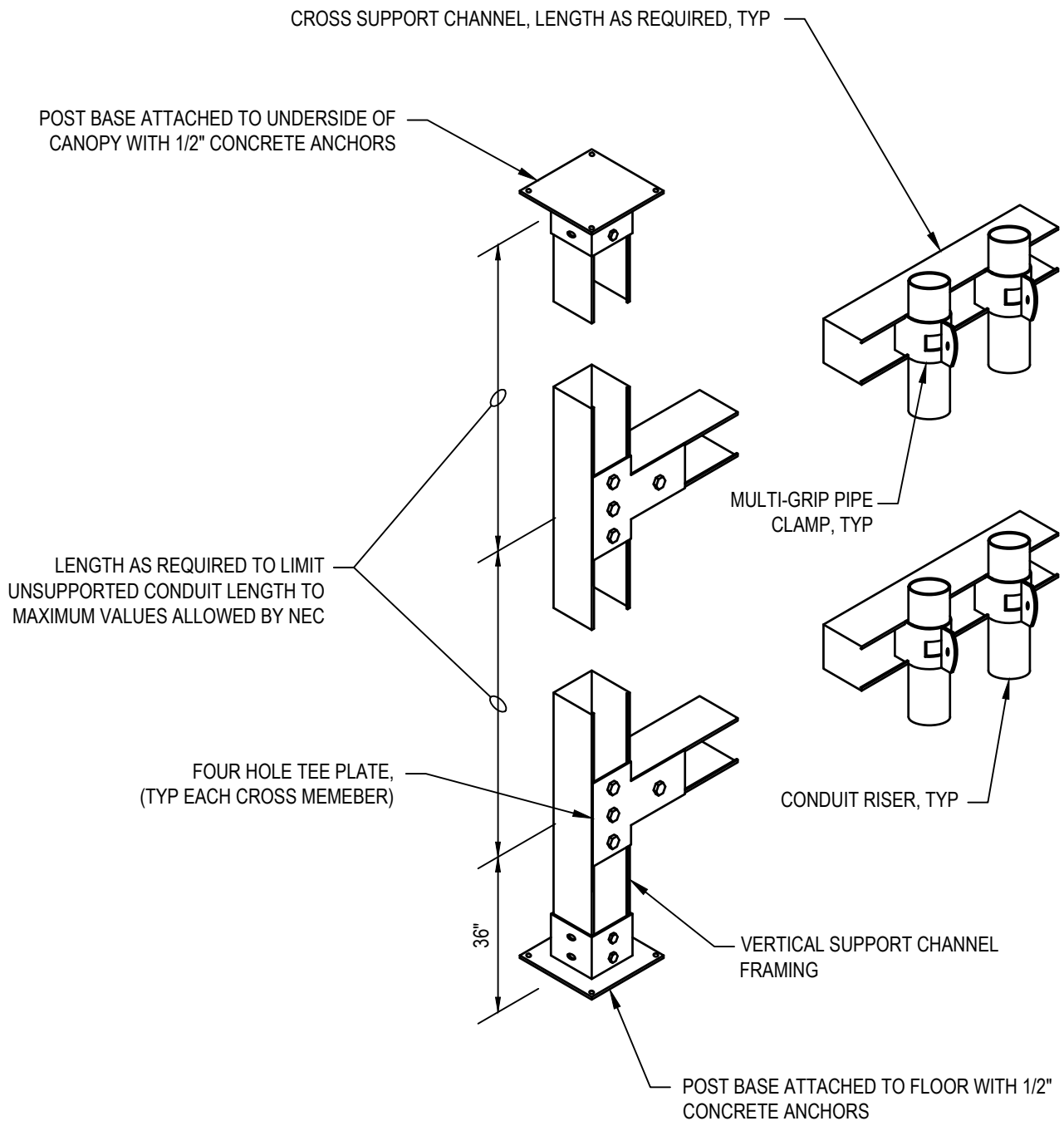
DATE  
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ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 26-05





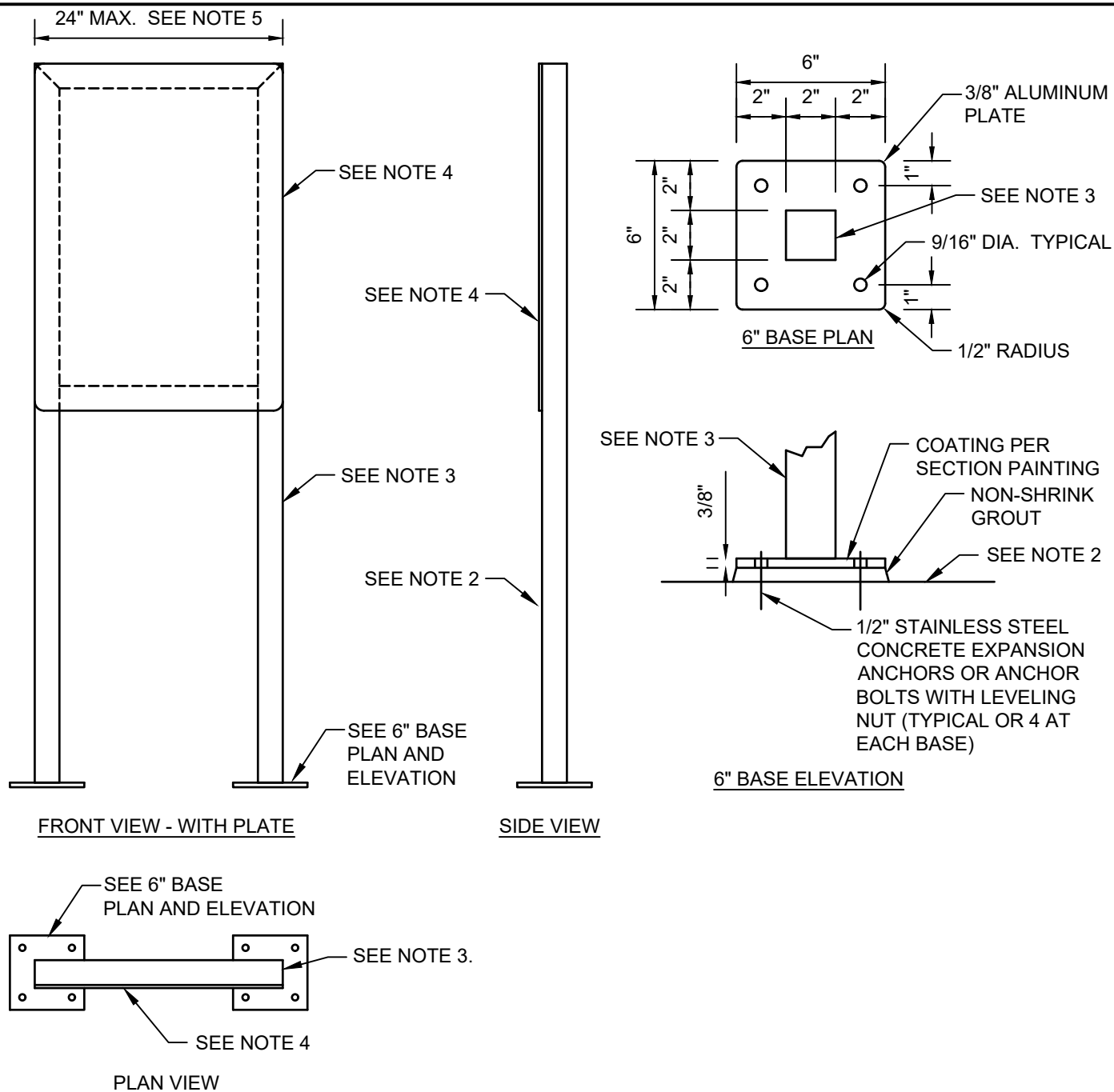
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
ELECTRICAL EQUIPMENT MOUNTING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 29-01



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
VERTICAL CONDUIT SUPPORT**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 29-02



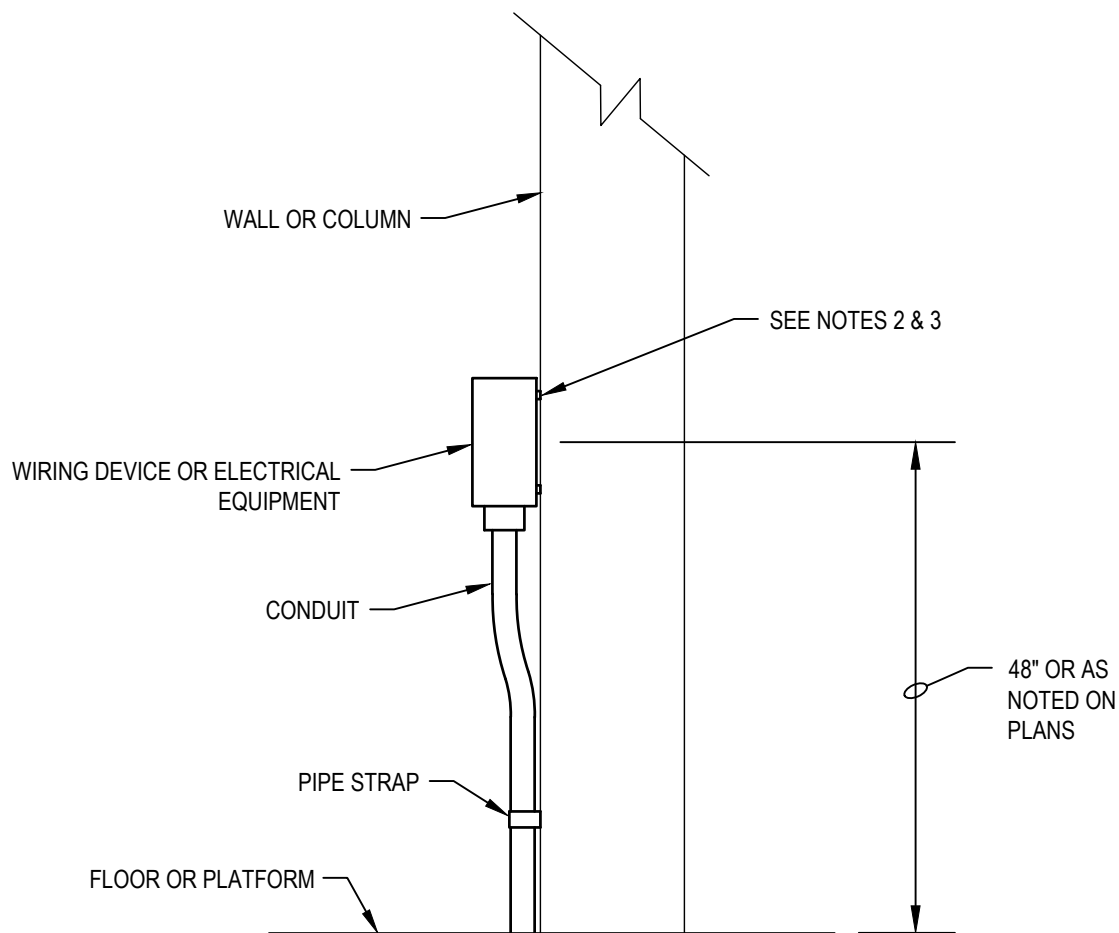
**NOTES:**

1. USE STAINLESS STEEL MOUNTING HARDWARE. USE WASHER AND SPLIT LOCK WASHER UNDER ALL NUTS.
2. FINISH FLOOR OR PLATFORM. FOR YARD LOCATIONS, PROVIDE A 6" THICK CONCRETE PAD AT GRADE WITH #4 BAR @ 12" OC EACH WAY, CENTERED. THE PAD SHALL BE 12" LONGER THAN THE MOUNTING PLATE BY ONE HALF THE HEIGHT OF THE MOUNTING PLATE ABOVE FINISH GRADE. 24" MINIMUM WIDTH.
3. STRUCTURAL MEMBERS WILL BE 6061-T6 ALUMINUM. 2" ALUMINUM SQUARE TUBE WITH 0.188" WALL.
4. BACKPLATE WILL BE 1/4" ALUMINUM PLATE. ROUND EDGES, 3/4" RADIUS.
5. FOR EQUIPMENT SUPPORTS LARGER THAN 24", UTILIZE 4 INCH ALUMINUM SQUARE TUBE SUPPORT.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
EQUIPMENT SUPPORT - 2" ALUMINUM SQUARE TUBE**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 29-06



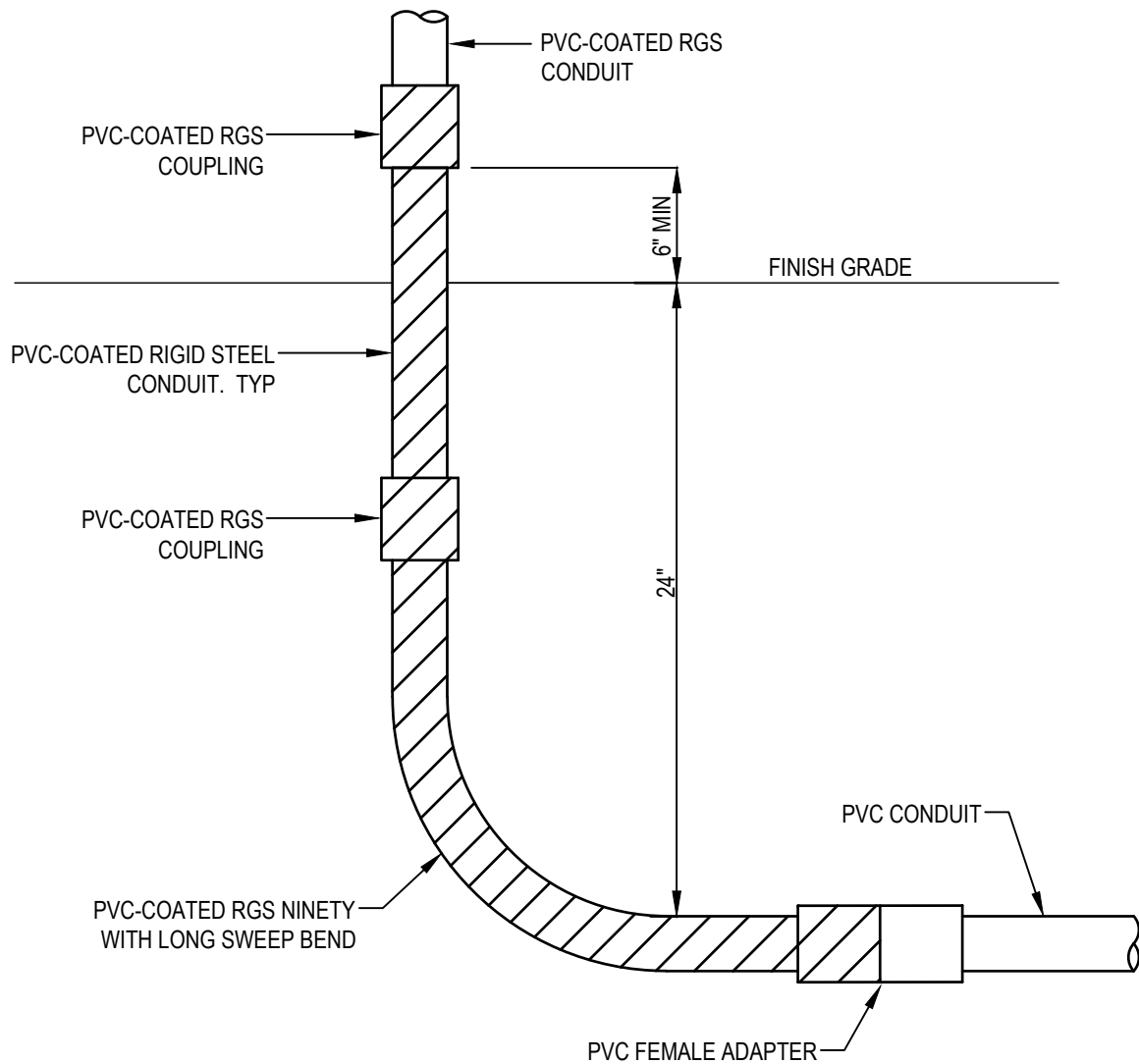
**NOTES:**

1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL OR AS NOTED IN SPECIFICATIONS. USE WASHER AND SPLIT-LOCK WASHERS UNDER ALL NUTS.
2. ON CONCRETE WALL USE STAINLESS STEEL INSERTS, MOUNT ENCLOSURE ON 1/2" SPACERS OF 1/2" SCHEDULE 80 PVC CONDUIT.
3. BOXES 6 INCHES SQUARE AND LESS SHALL BE SUPPORTED BY TWO INSERTS. LARGER BOXES SHALL BE SUPPORTED BY AT LEAST FOUR.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
WALL OR COLUMN DEVICE MOUNTING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 33-01



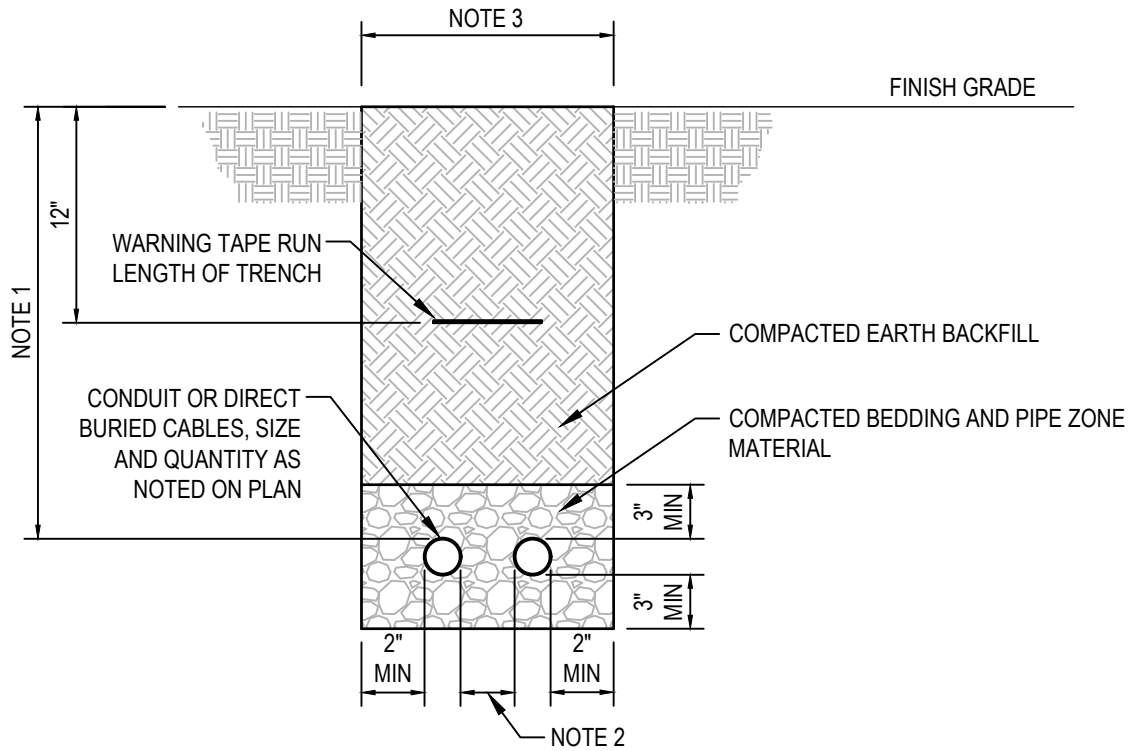
**NOTES:**

1. WHERE CONDUITS ARE INSTALLED IN A CONCRETE SLAB, THE 24" DIMENSION DOES NOT APPLY. CONDUITS SHALL BE INSTALLED BETWEEN REBAR MATS OR UNDER A SINGLE REBAR MAT.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
RGS STUB**

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DETAIL NUMBER  
26 05 33-02



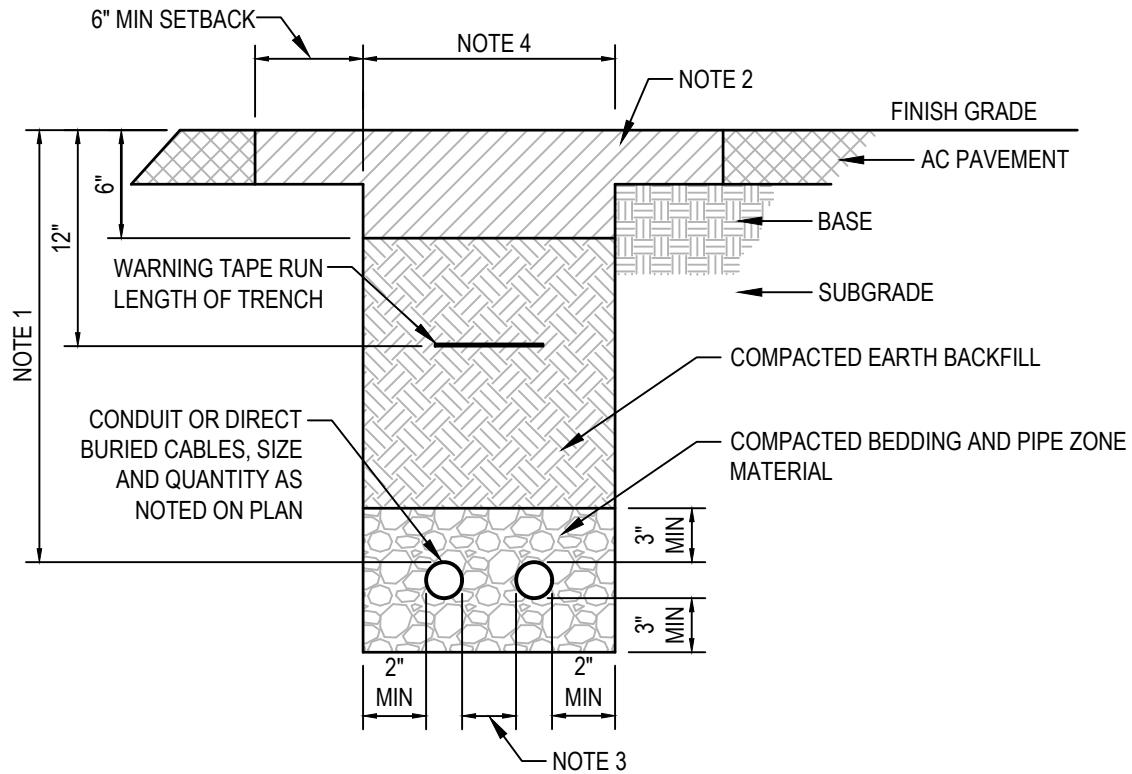
**NOTES:**

1. 24" MINIMUM DEPTH FOR 600 VOLTS OR LESS. 36" MINIMUM DEPTH OF MORE THAN 600V.
2. FOR CONDUITS 2" AND LARGER, PROVIDE 3" MINIMUM SEPARATION. FOR CONDUITS 1-1/2" AND SMALLER, PROVIDE 2" MINIMUM SEPARATION.
3. 8" MINIMUM FOR 1 DUCT. 1'-2" MINIMUM FOR 2 DUCTS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TRENCH DETAIL**

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**NOTES:**

1. 24" MINIMUM DEPTH FOR 600 VOLTS OR LESS. 36" MINIMUM DEPTH OF MORE THAN 600V.
2. PROVIDE BITUMINOUS SURFACE COURSE WHERE PAVEMENT REPLACEMENT IS APPLICABLE. MATCH OR EXCEED EXISTING CONDITIONS.
3. FOR CONDUITS 2" AND LARGER, PROVIDE 3" MINIMUM SEPARATION. FOR CONDUITS 1-1/2" AND SMALLER, PROVIDE 2" MINIMUM SEPARATION.
4. 8" MINIMUM FOR 1 DUCT. 1'-2" MINIMUM FOR 2 DUCTS.

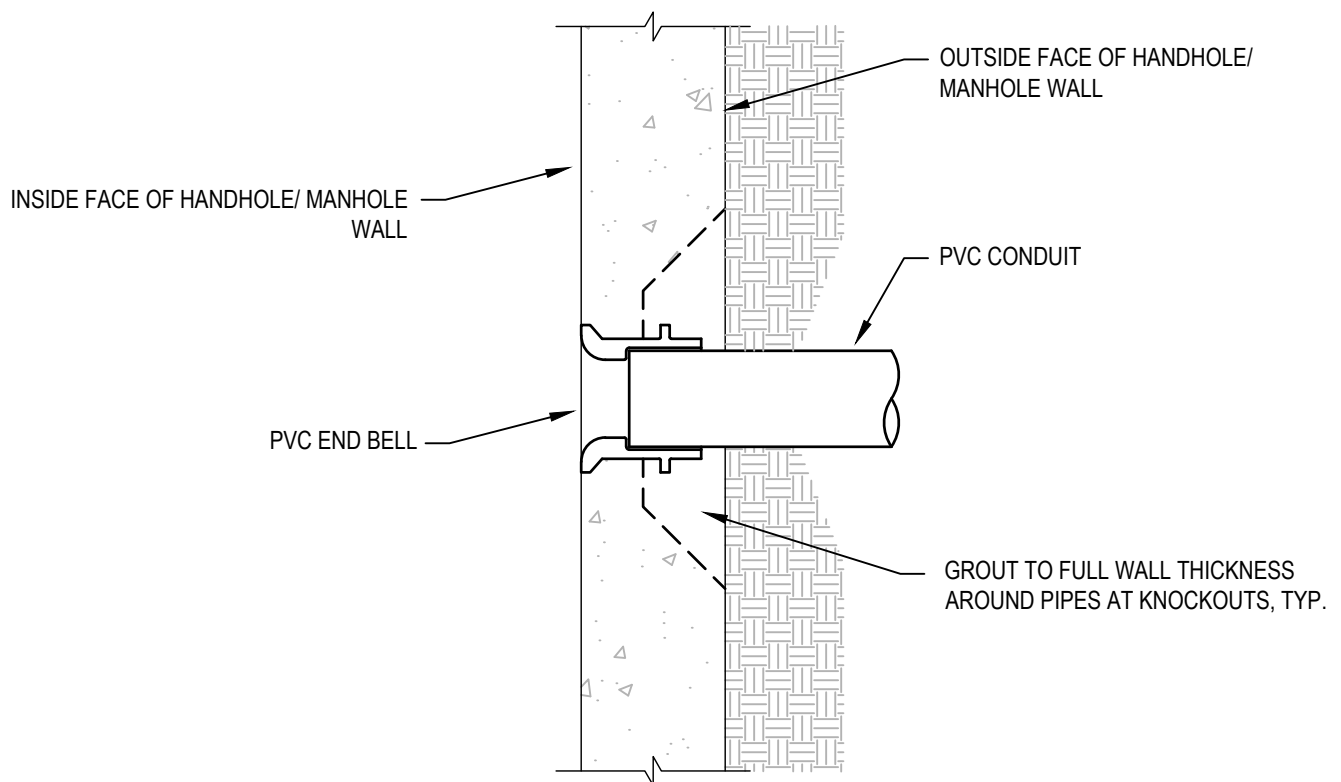


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TRENCH DETAIL - TRAFFIC TRENCH TOPPING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 43-02

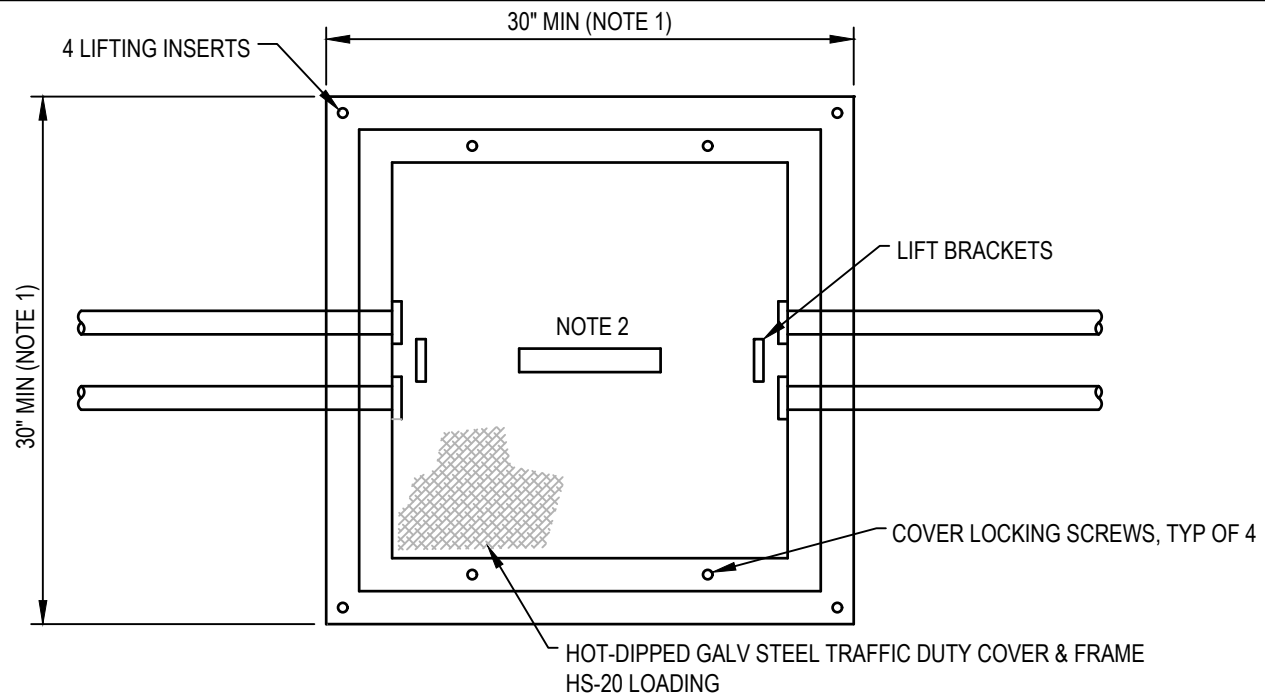




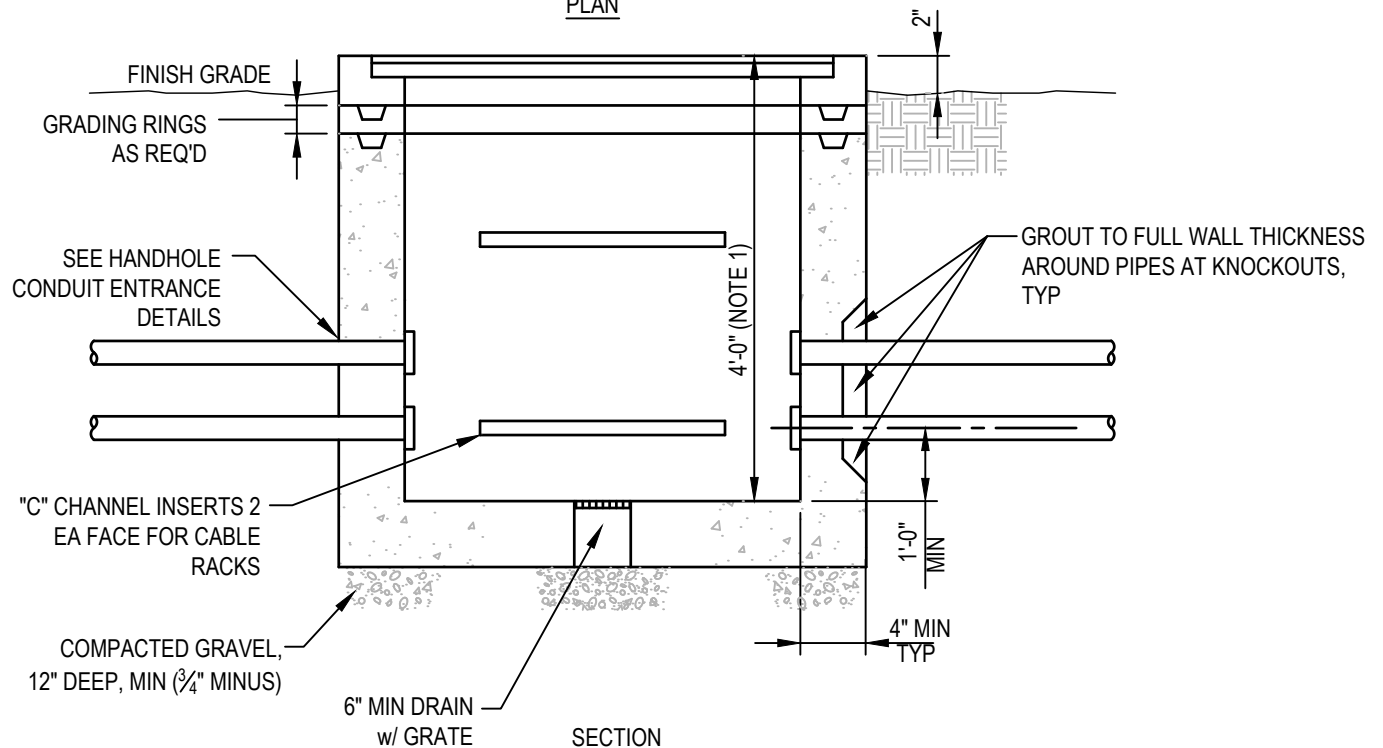


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
HANDHOLE CONDUIT ENTRANCE**

DATE  
04/11/2025  
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ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 43-04



PLAN



SECTION

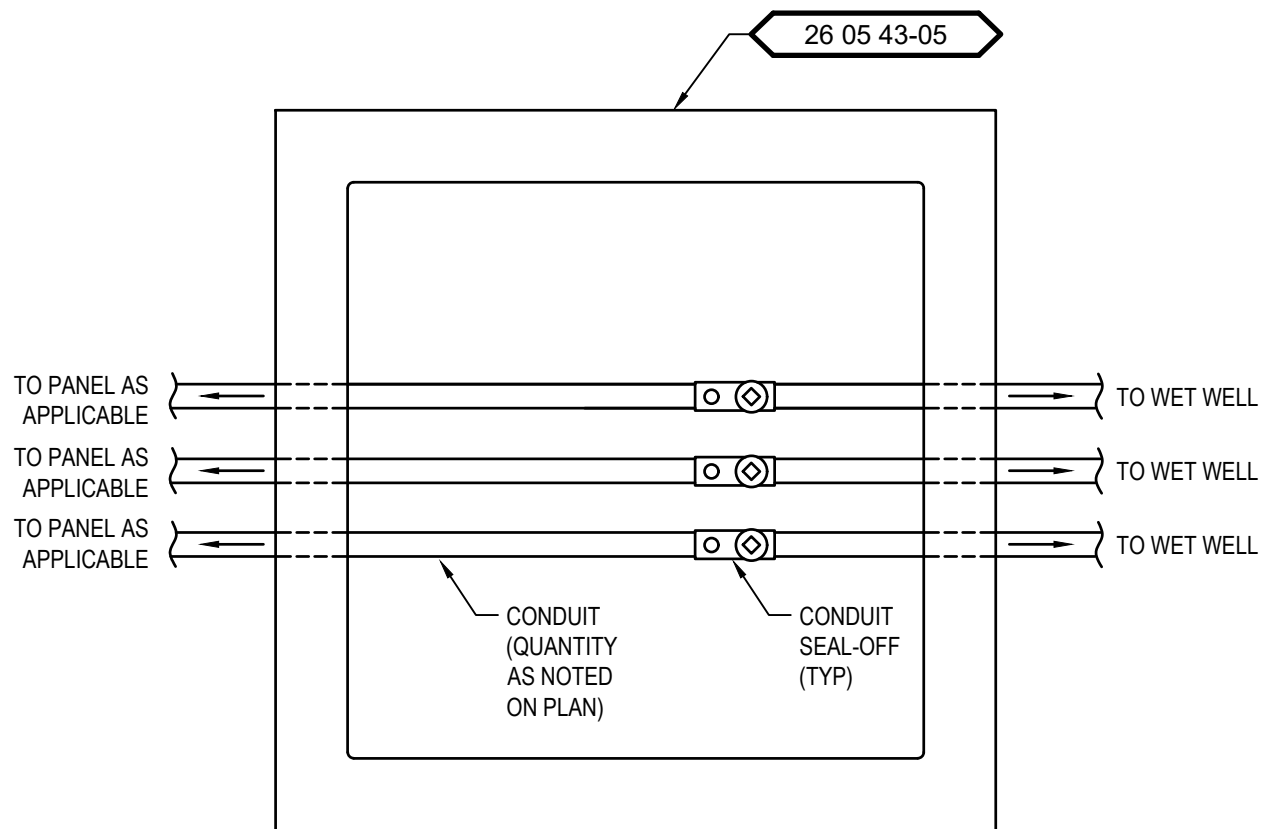
NOTES:

1. TYPICAL SIZE UNLESS NOTED OTHERWISE ON PLANS OR SPECIFICATIONS.
2. INSCRIBE "ELECTRICAL", "CONTROLS" OR "COMMUNICATIONS" AS APPLICABLE.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL HANDHOLE**

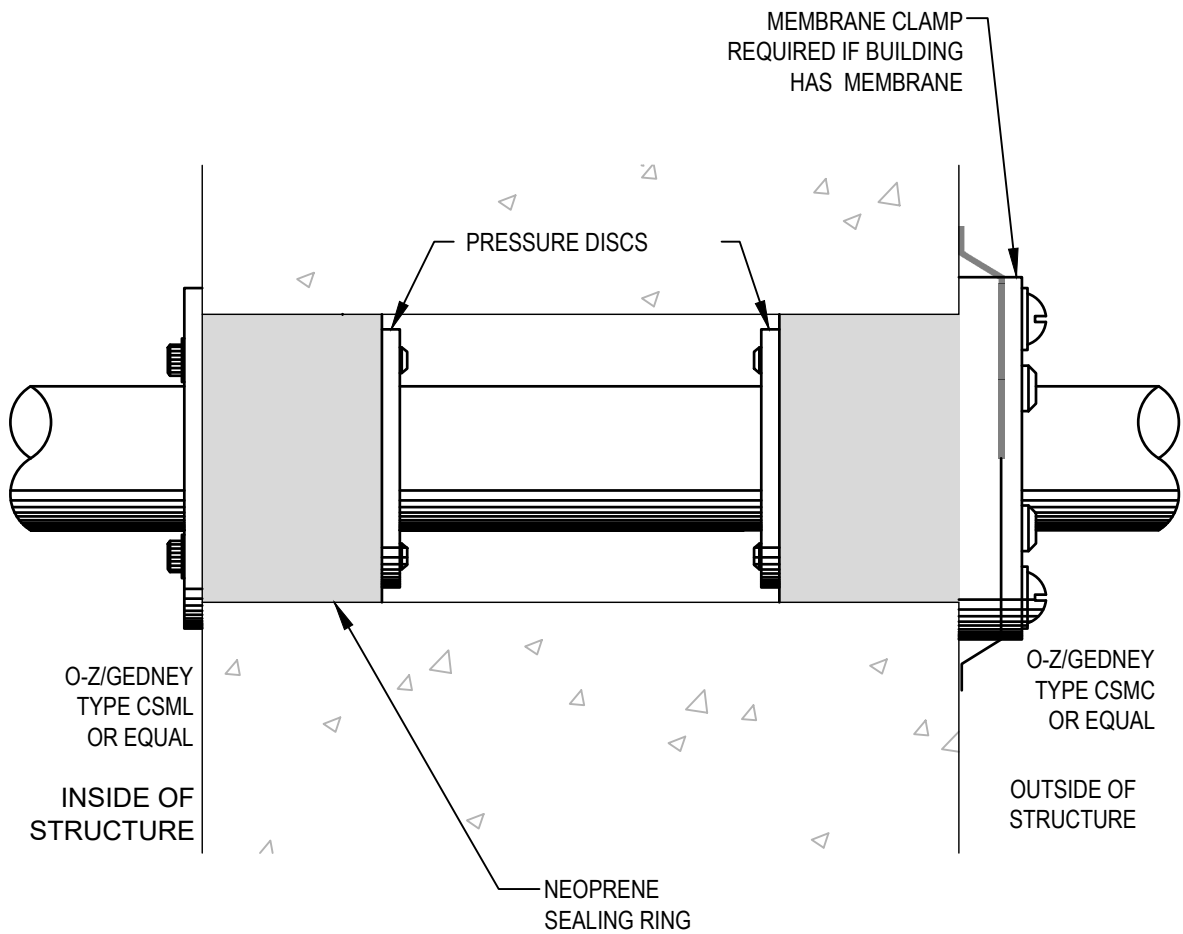
DATE  
04/11/2025  
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ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 43-05



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
EXPLOSION PROOF IN-GRADE JUNCTION BOX**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 43-06





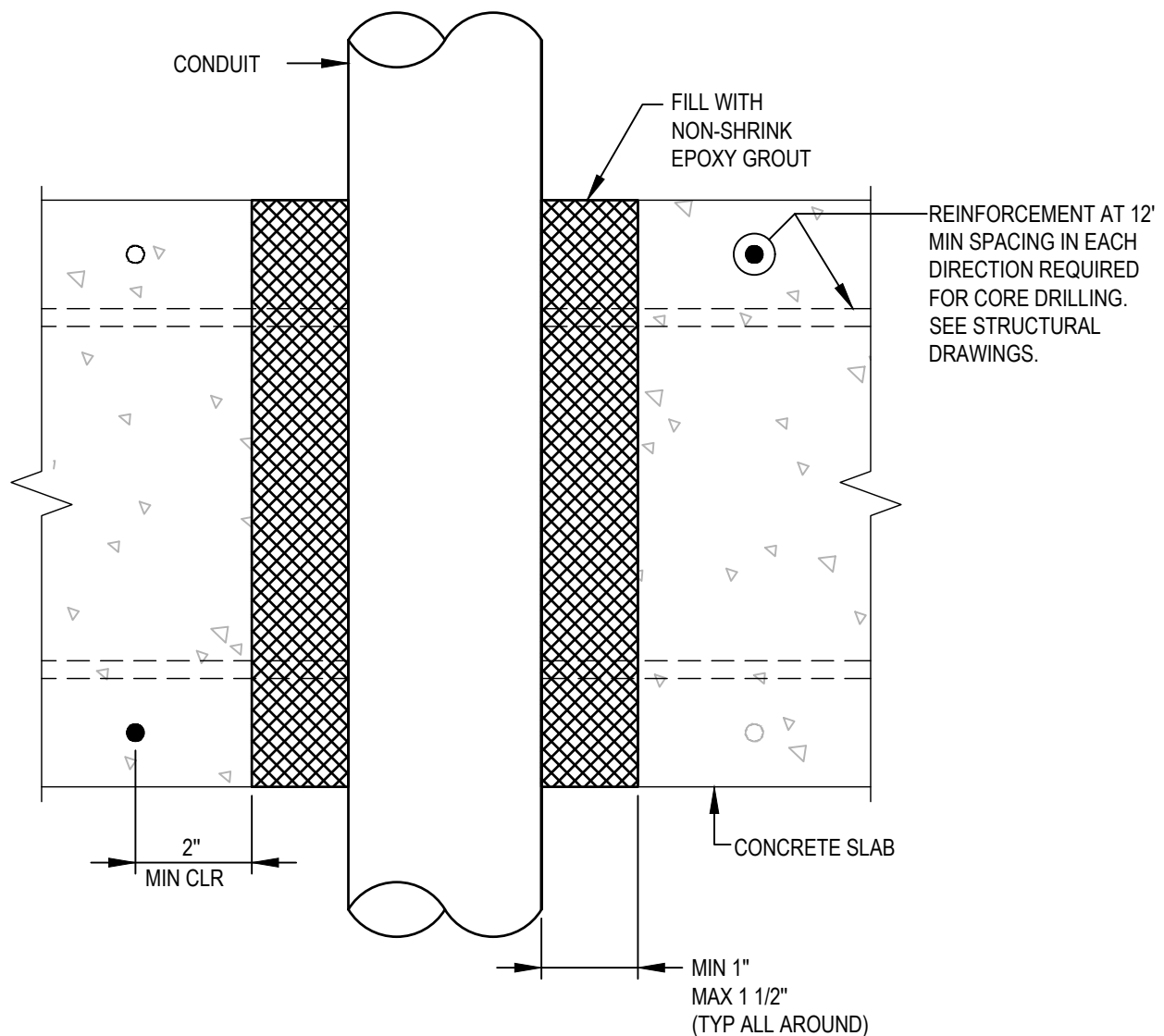
NOTES:

1. REFER TO SPECIFICATIONS FOR CORE-DRILLING REQUIREMENTS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CONDUIT WALL PENETRATION BELOW GRADE**

DATE  
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ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 44-02



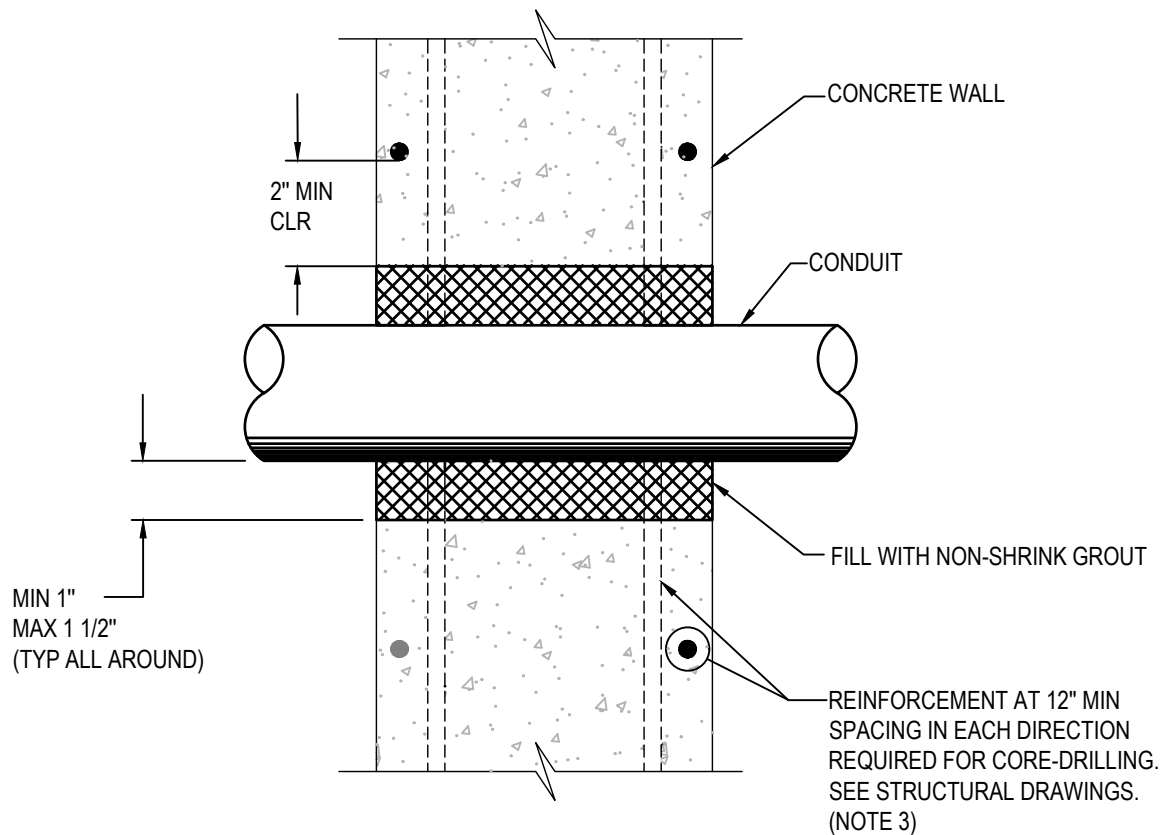
**NOTES:**

1. PROVIDE NON-DESTRUCTIVE TESTING TO DETERMINE LOCATIONS OF REINFORCEMENT. MAINTAIN MIN 2" CLEAR BETWEEN CORE DRILLED OPENING AND REINFORCEMENT.
2. APPLY EPOXY CEMENT BONDING AGENT PRIOR TO GROUTING.
3. PROVIDE CAST-IN SLEEVE FOR PENETRATIONS IN WALLS WITH REINFORCEMENT SPACING LESS THAN 2" IN EACH DIRECTION. REFER TO STRUCTURAL DRAWINGS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CORE DRILLED PENETRATIONS - CONCRETE SLAB**

DATE  
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ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 44-03



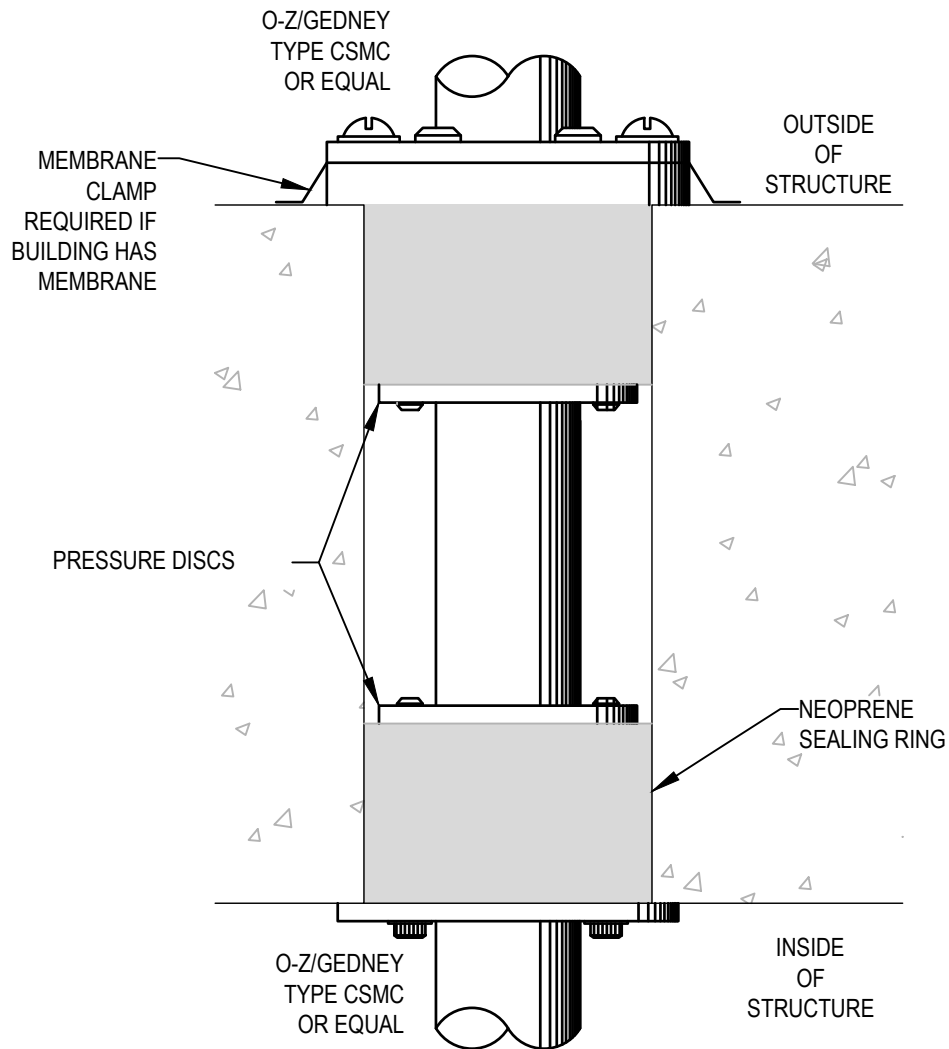
NOTES:

1. PROVIDE NON-DESTRUCTIVE TESTING TO DETERMINE LOCATIONS OF REINFORCEMENT. MAINTAIN MIN 2" CLEAR BETWEEN CORE DRILLED OPENING AND REINFORCEMENT.
2. APPLY EPOXY CEMENT BONDING AGENT PRIOR TO GROUTING.
3. PROVIDE CAST-IN SLEEVE FOR PENETRATIONS IN WALLS WITH REINFORCEMENT SPACING LESS THAN 2" IN EACH DIRECTION. REFER TO STRUCTURAL DRAWINGS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CORE DRILLED PENETRATION - CONCRETE WALL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 44-04



NOTES:

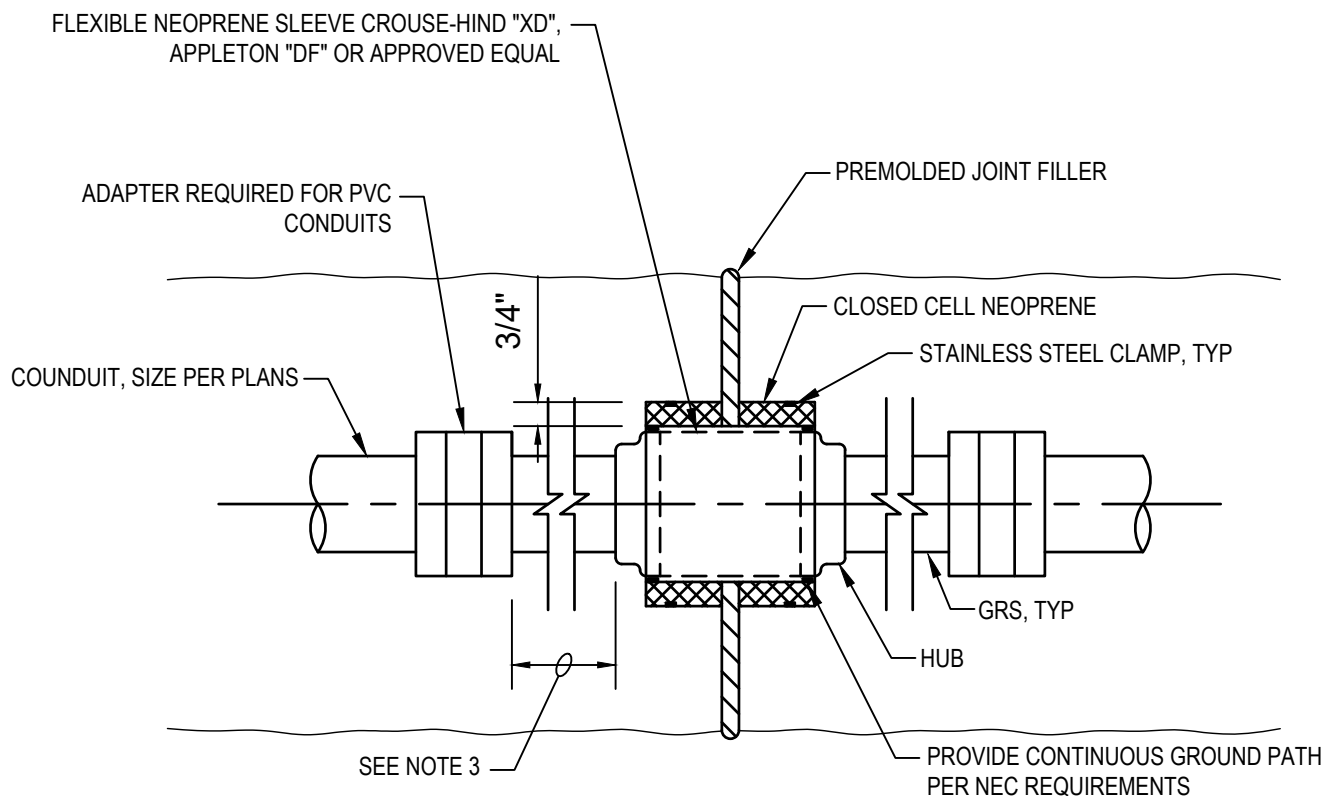
1. REFER TO SPECIFICATIONS FOR CORE-DRILLING REQUIREMENTS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
CORE HOLE CONDUIT - FLOOR PENETRATION**

DATE  
04/11/2025  
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ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 44-05





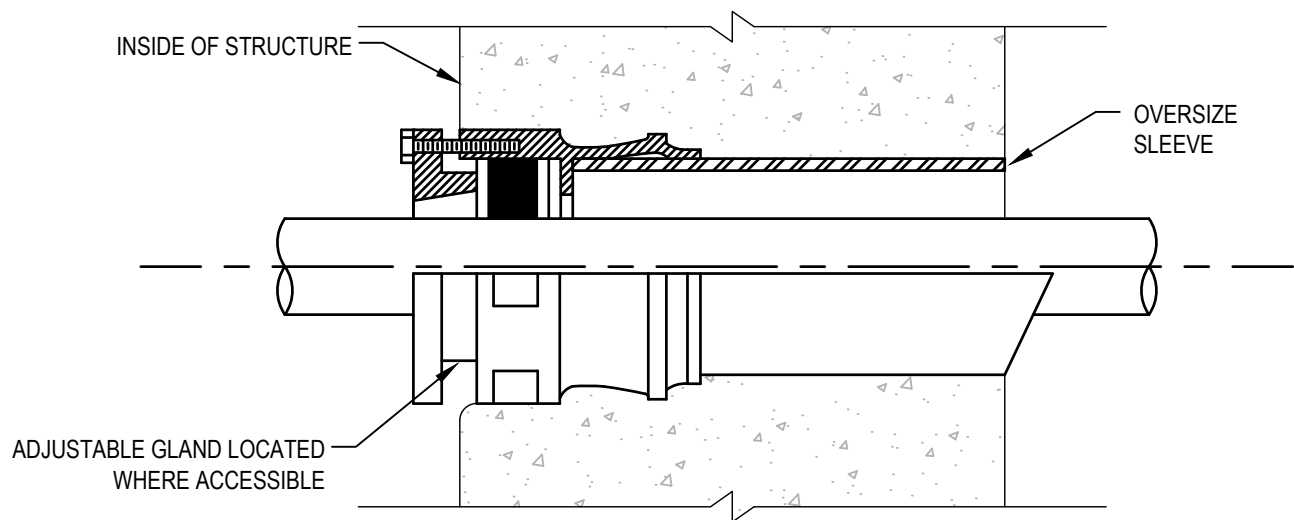
**NOTE:**

1. DETAIL APPLIES TO CONDUIT EMBEDDED IN STRUCTURAL CONCRETE AT BUILDING INTERFACES AND AT STRUCTURAL EXPANSION JOINTS.
2. DETAIL APPLIES TO ALL EXPANSION JOINTS FOR THE UNDERGROUND CONCRETE ENCASED CONDUITS.
3. PVC CONDUIT INSTALLATIONS SHALL HAVE 18 INCHES(MIN) LENGTH OF GRS EACH SIDE OF FITTING.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
EXPANSION / DEFLECTION COUPLING**

DATE  
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ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 05 44-06



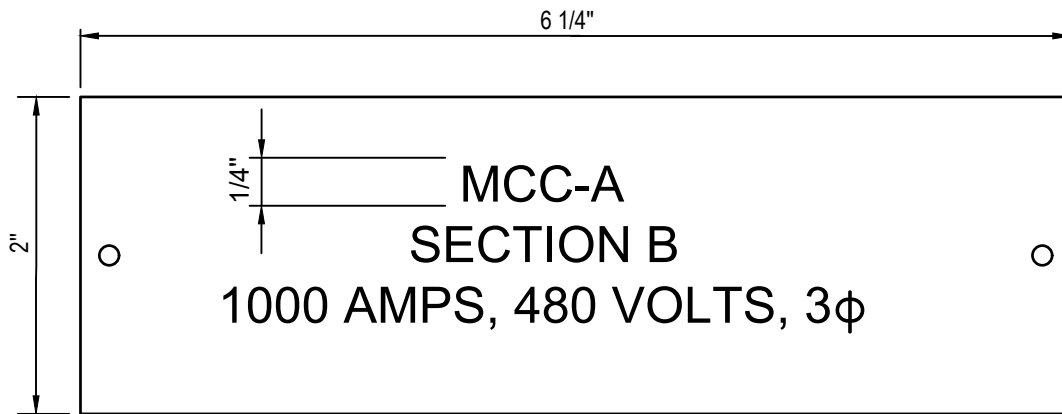
NOTE:

1. USE WATERTIGHT CONDUIT SEAL WHERE CONDUIT PENETRATIONS OF BUILDING EXTERIOR WALLS ARE BELOW GRADE.

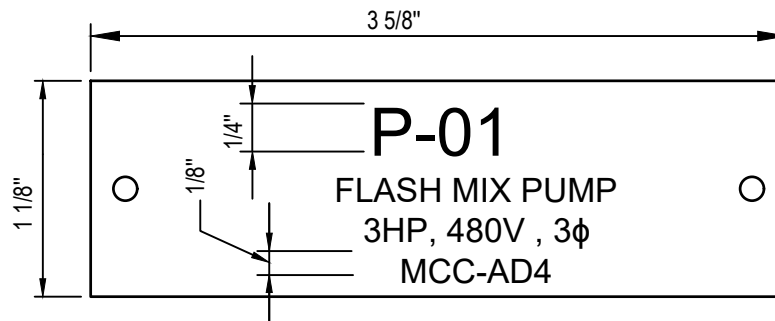


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
WATERTIGHT WALL CONDUIT SEAL**

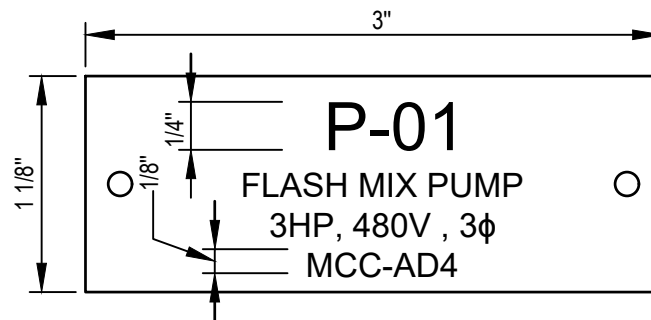
DATE  
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ISSUE FOR REVIEW  
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26 05 44-07



OVERALL ELECTRICAL EQUIPMENT



STARTER OR CIRCUIT BREAKER COMPARTMENT



DISCONNECT, LOCAL CONTROL PANEL

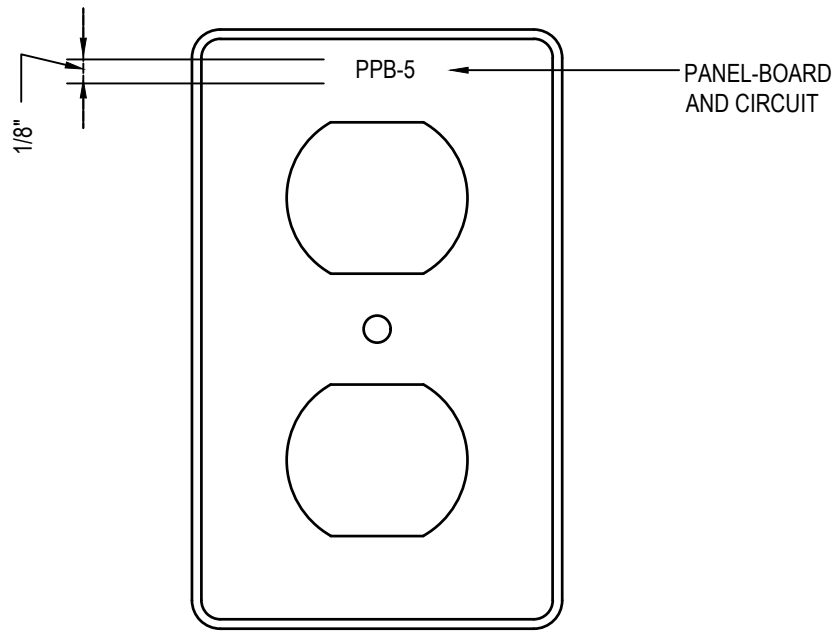
NOTES:

1. REFER TO THE SPECIFICATIONS FOR MATERIALS AND COLOR SCHEMES.
2. NAMEPLATE DIMENSIONS ARE APPROXIMATE.
3. PROVIDE APPROPRIATE LABELING. NOTED TAGS ARE GENERIC.

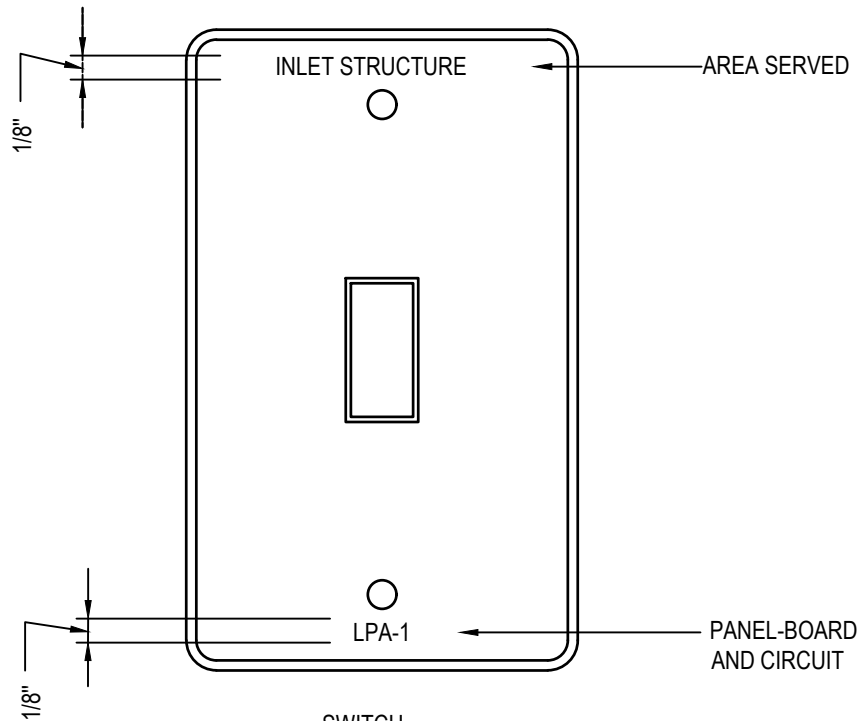


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL ELECTRICAL NAMEPLATES**

DATE  
04/11/2025  
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26 05 53-01



RECEPTACLE



SWITCH

NOTES:

1. ENGRAVE CIRCUIT DESIGNATION DIRECTLY ONTO DEVICE COVER PLATE. FILL LETTERING WITH BLACK ENAMEL.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL PLATE IDENTIFICATION**

DATE  
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26 05 53-02

ATMOSPHERE  
NORMAL WHEN  
GREEN LIGHT IS ON

RED BACKGROUND  
WHITE RETRO REFLECTIVE LETTERS

VENTILATION / GAS  
ALARM  
WHEN RED LIGHT  
IS FLASHING

RED LETTERS

WHITE BACKGROUND

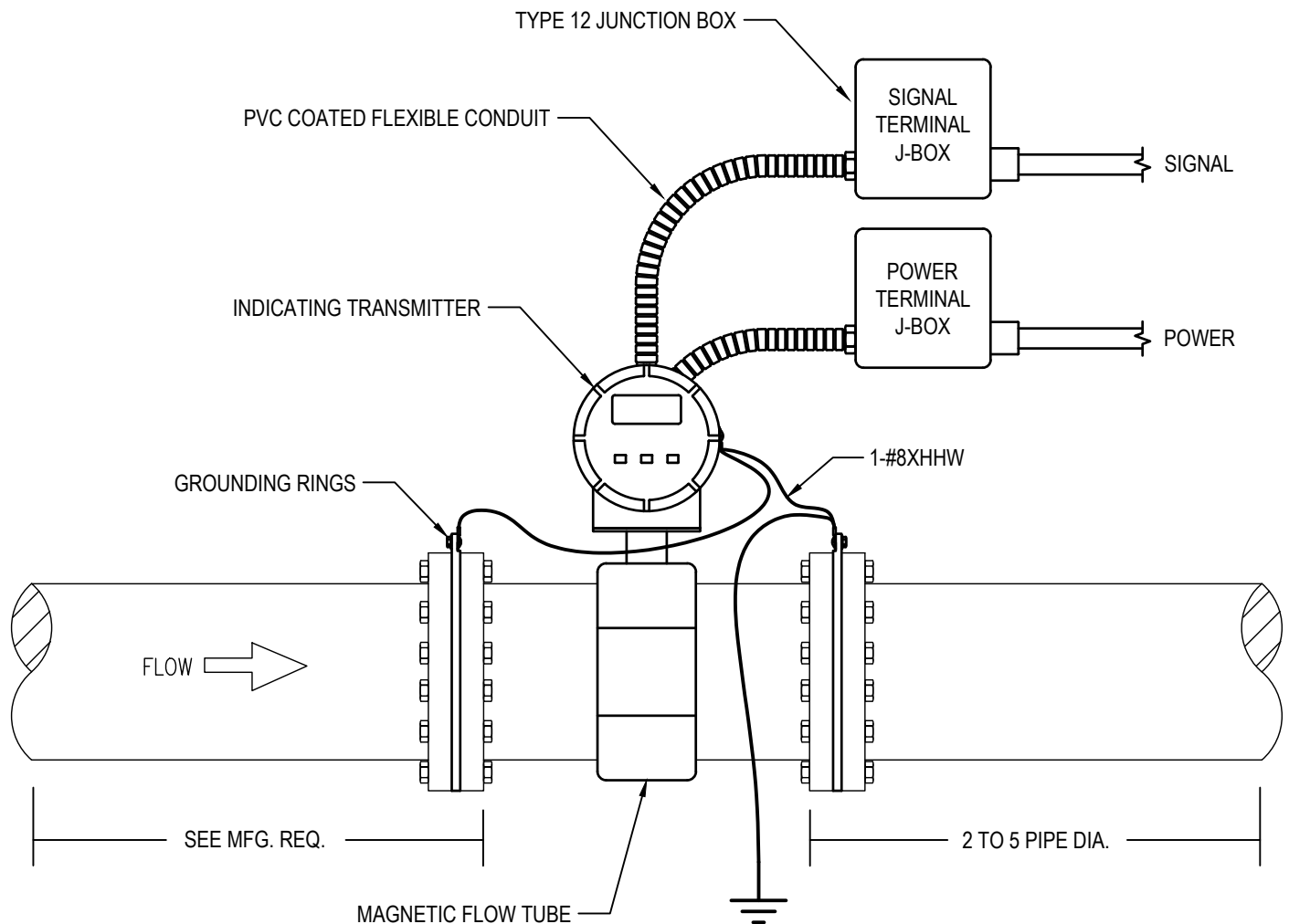
BLACK LETTERS

EACH SIGN SHALL BE 20"X14"  
PLACE BOTH SIGNS AT NOTIFICATION LOCATIONS



CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GO NO/GO SIGNAGE

DATE  
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DETAIL NUMBER  
26 05 53-03



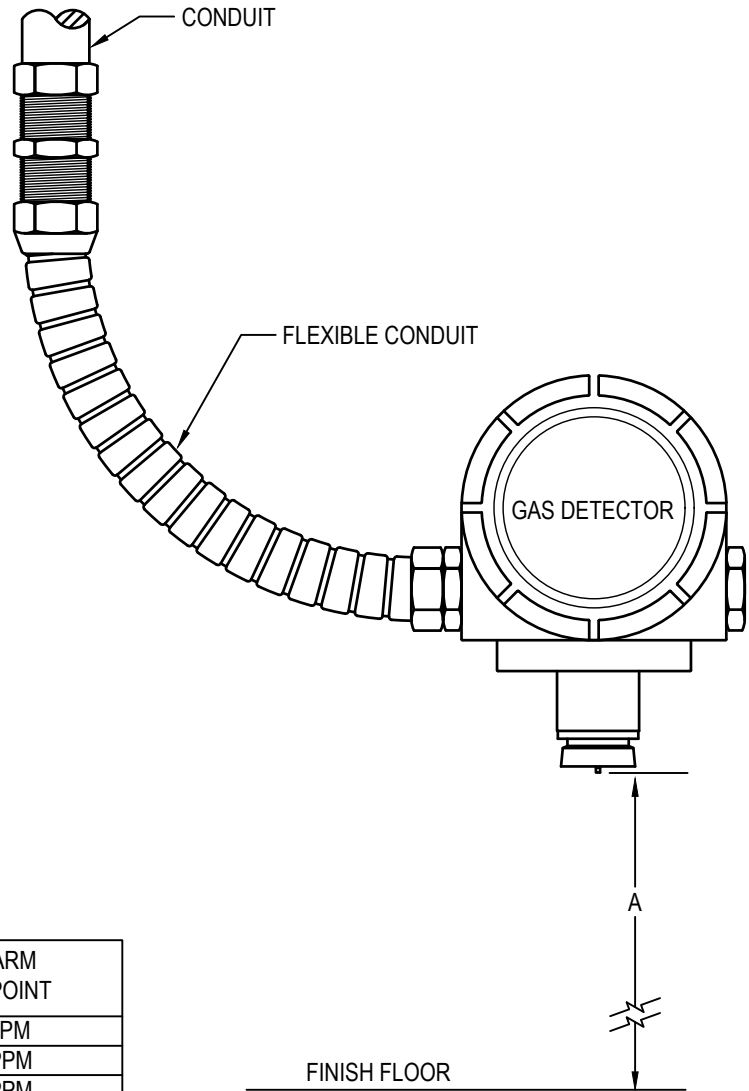
**NOTES:**

1. VERIFY ZERO GROUND POTENTIAL BETWEEN FLOW TUBE AND TRANSMITTER GROUND TERMINAL.
2. CONNECT TRANSMITTER GROUND TERMINAL TO GROUND RINGS.
3. METER BODY SHALL BE CONNECTED TO EARTH GROUND POTENTIAL.
4. EQUALIZE POTENTIAL VIA GROUND RINGS BETWEEN FLUID AND MAG METER.
5. TERMINATIONS WITHIN JUNCTION BOX ARE TO BE MADE USING SCREW CLAMP TERMINAL BLOCKS.
6. TERMINAL JUNCTION BOX CAN BE COMBINED INTO A SINGLE JUNCTION BOX IF 24VDC POWER IS USED.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
MAGNETIC FLOW METER**

DATE  
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GAS	A (INCHES)	ALARM SETPOINT
CARBON MONOXIDE	60	35 PPM
CHLORINE	12	0.5 PPM
CHLORINE DIOXIDE	12	0.1 PPM
HYDROGEN SULFIDE	12	10 PPM
OXYGEN	60	19.5% L - 23.5% H
OZONE	12	0.05 PPM
SULFUR DIOXIDE	12	2 PPM
GAS/METHANE	NOTE 2	20%LEL & 40% LEL

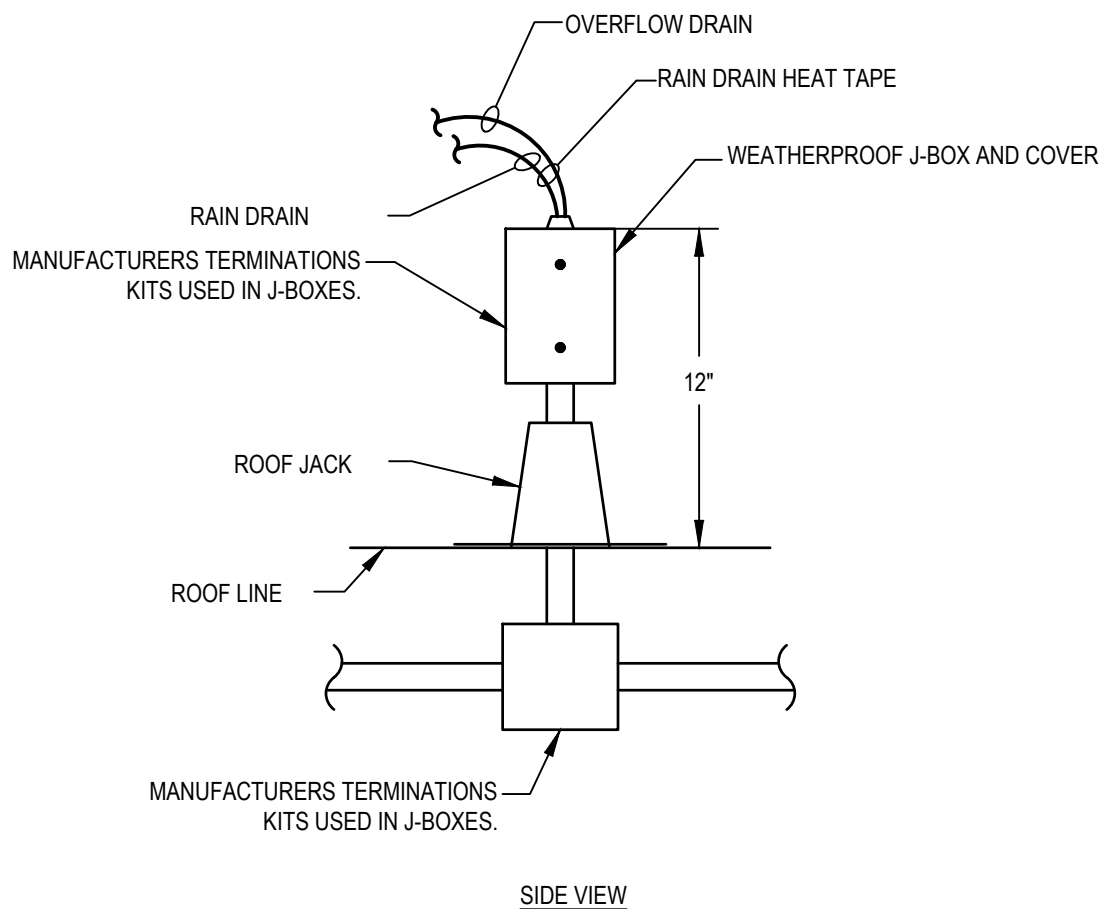
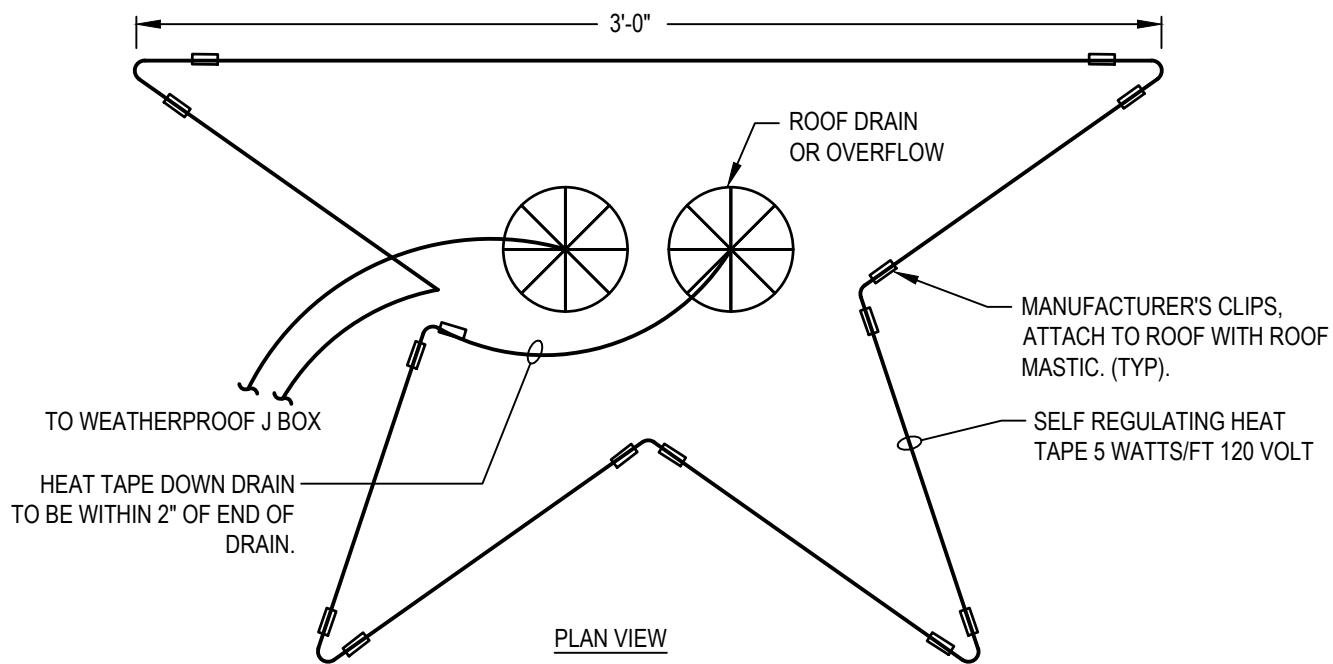
**NOTES:**

1. SETPOINTS BASED ON BELA LIPTAK'S INSTRUMENT ENGINEER HANDBOOK 2002 VOLUME I, TABLE 8.59A
2. MOUNT DEVICE 12" BELOW CEILING.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
GAS DETECTION MOUNTING**

DATE  
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26 27 26-02



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
ROOF HEAT TRACE**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 27 26-03



LINEAR FIXTURE NUT,  
STUD NUT OR HANGER  
AS REQUIRED (TYP)

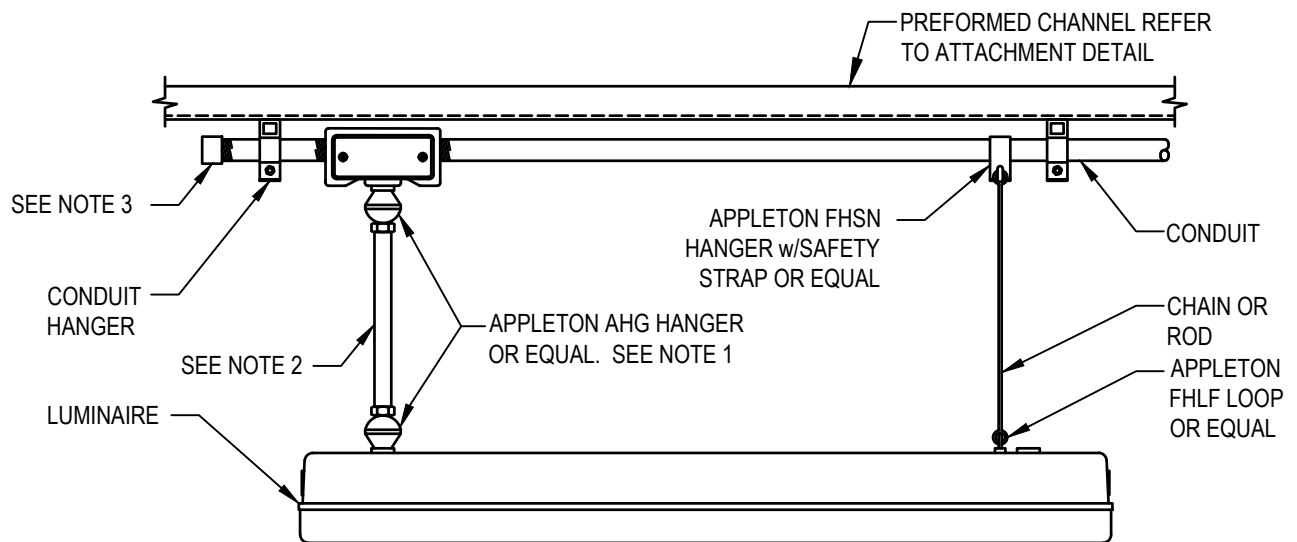
PREFORMED CHANNEL REFER  
TO ATTACHMENT DETAIL

LUMINAIRE

CONDUIT  
HANGER

CONDUIT

FLUSH MOUNTED



SUSPENDED

NOTES:

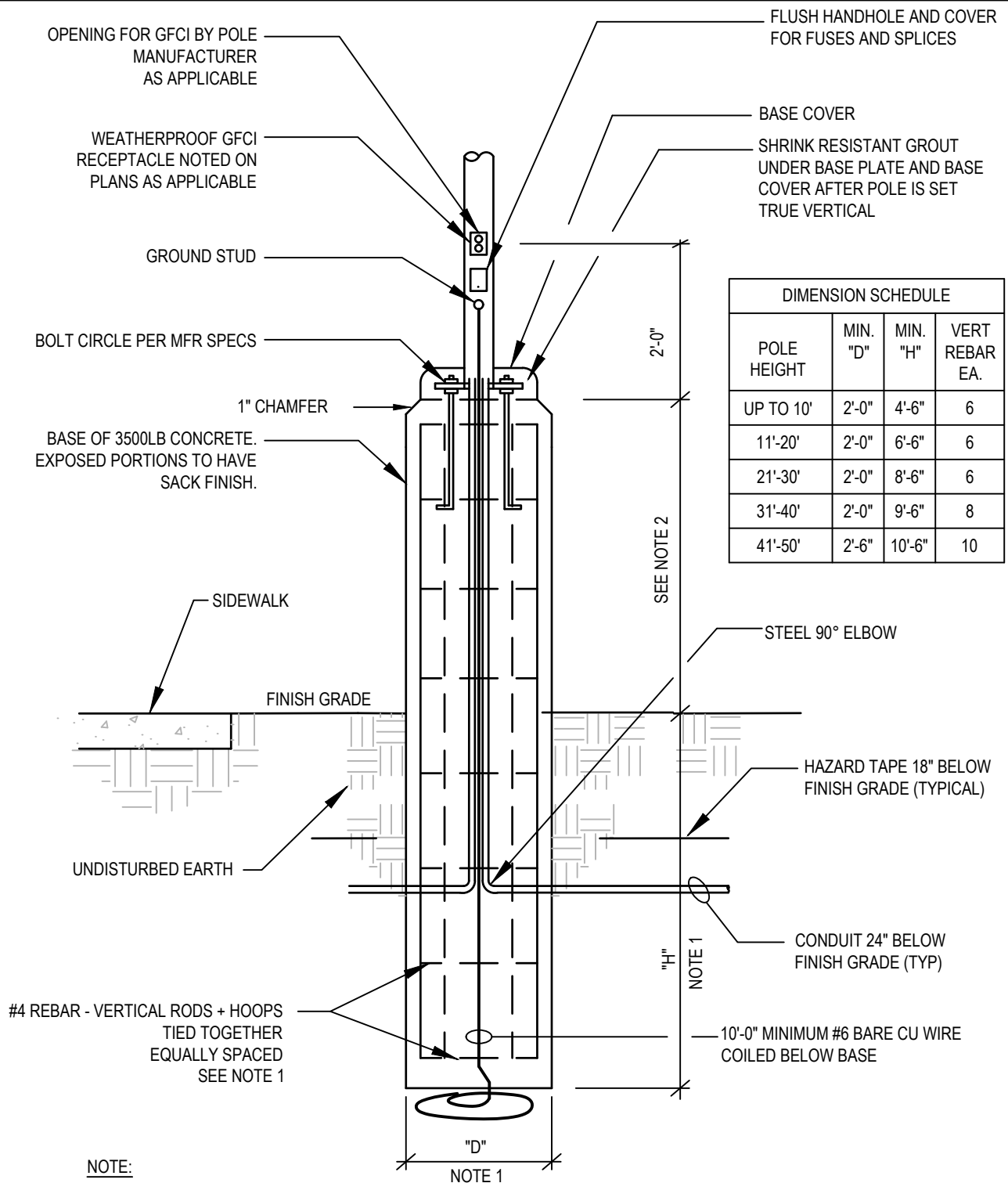
1. USE MEYERS HUB IN WET AND/OR CORROSIVE AREAS.
2. LENGTH AS REQUIRED FOR INDICATED MOUNTING HEIGHT.
3. CAP END CONDUIT AS REQUIRED.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
LINEAR LUMINAIRE MOUNTING**

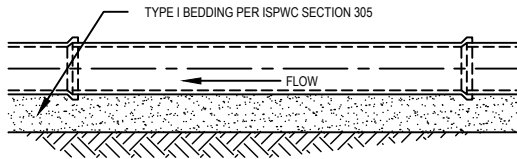
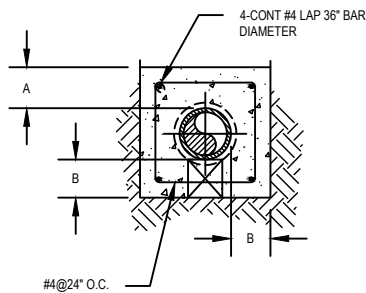
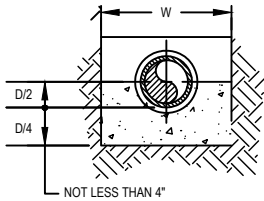
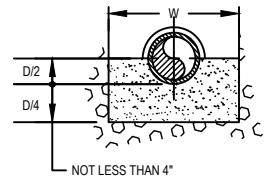
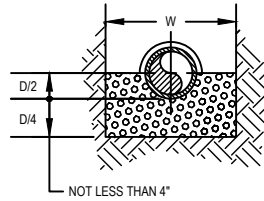
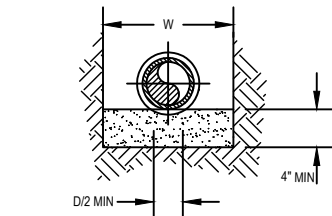
DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW

DETAIL NUMBER  
26 50 00-01

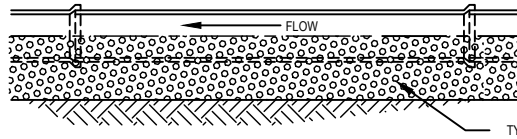


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
LIGHT POLE BASE DETAIL**

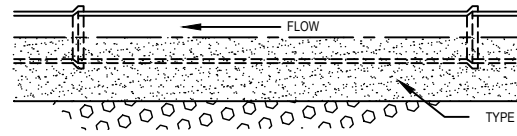
DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
26 56 13-01



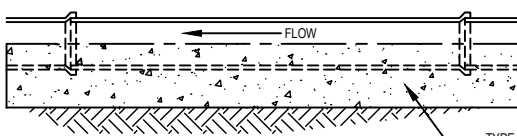
**NORMAL BEDDING**  
(UNYIELDING MATERIAL)



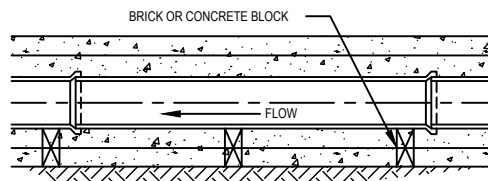
**GRANULAR MATERIAL BEDDING**  
(YIELDING MATERIAL)



**ROCK OR CALICHE-BEDDING**  
90% COMPACTION



**CONCRETE BEDDING**



**REINFORCED CONCRETE ENCASEMENT**

OUTSIDE DIAMETER OF THE PIPE  
BARREL FIRMLY BEDDED IN A  
HAND-SHAPED UNYIELDING MATERIAL

TYPE II BEDDING PER ISPPC SECTION 305

TYPE III BEDDING PER ISPPC SECTION 305

TYPE IV BEDDING PER  
ISPPC SECTION 305

SIZE	B	A
6"	6"	6"
8"	6"	6"
10"	6"	6"
12"	6"	6"
15"	6"	6"
18"	6"	6"
21"	6"	6"
24"	6"	6"
27"	7"	6"
30"	8"	6"
33"	8"	6"
36"	9"	6"
39"	9"	6"
42"	10"	6"

D - OUTSIDE DIAMETER OF PIPE

W - THE WIDTH OF THE TRENCH AT THE TOP OF THE FLEXIBLE PIPE SHALL BE THE DIAMETER OF THE PIPE PLUS 16" MINIMUM. IN ANY CASE, THE WIDTH SHALL BE SUFFICIENT FOR WORK IN CONNECTION WITH LAYING, JOINTING, INSPECTION, PLACING THE BEDDING AND TO PROVIDE FOR THE SAFETY OF WORKERS AND SHALL MEET OSHA REQUIREMENTS.

#### NOTES:

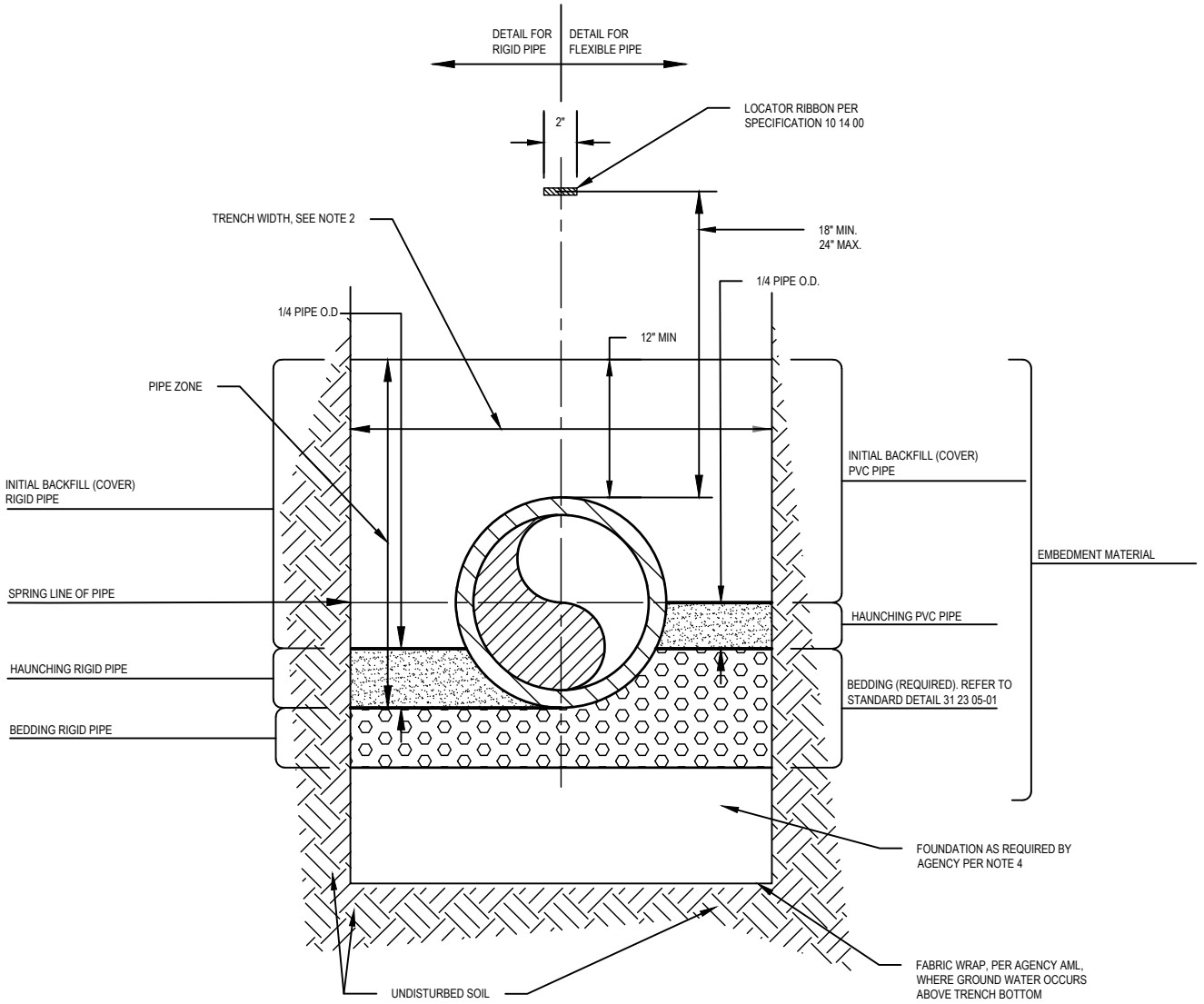
1. ALL CONCRETE SHALL BE 3,000 PSI PER SECTION 305 ARTICLE 2.5 A OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPPC).
2. IN ALL OF THE ABOVE EXAMPLES, BEDDING SHALL CONFORM TO ISPPC SECTION 305.
3. FOR PVC PIPE, BEDDING SHALL ALSO CONFORM TO UNI-BELL PVC PIPE ASSOCIATION HANDBOOK AND PIPE MANUFACTURER'S RECOMMENDATIONS.
4. DIP SHALL BE WRAPPED WITH A DOUBLE LAYER OF 8 MIL POLY-WRAP.
5. FOR SHALLOW MANHOLES, SEWER PIPE HAVING LESS THAN 5-FEET OF COVER, SHALL BE C900 OR DIP AS REQUIRED BY AGENCY. THE C900 OR DIP PIPE SHALL EXTEND TO THE NEXT UPSTREAM AND DOWNSTREAM MANHOLES



## CITY OF HAILEY WOODSIDE WATER RECLAMATION FACILITY HEADWORKS IMPROVEMENTS PIPE BEDDING METHODS

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW

DETAIL NUMBER  
31 23 05-01



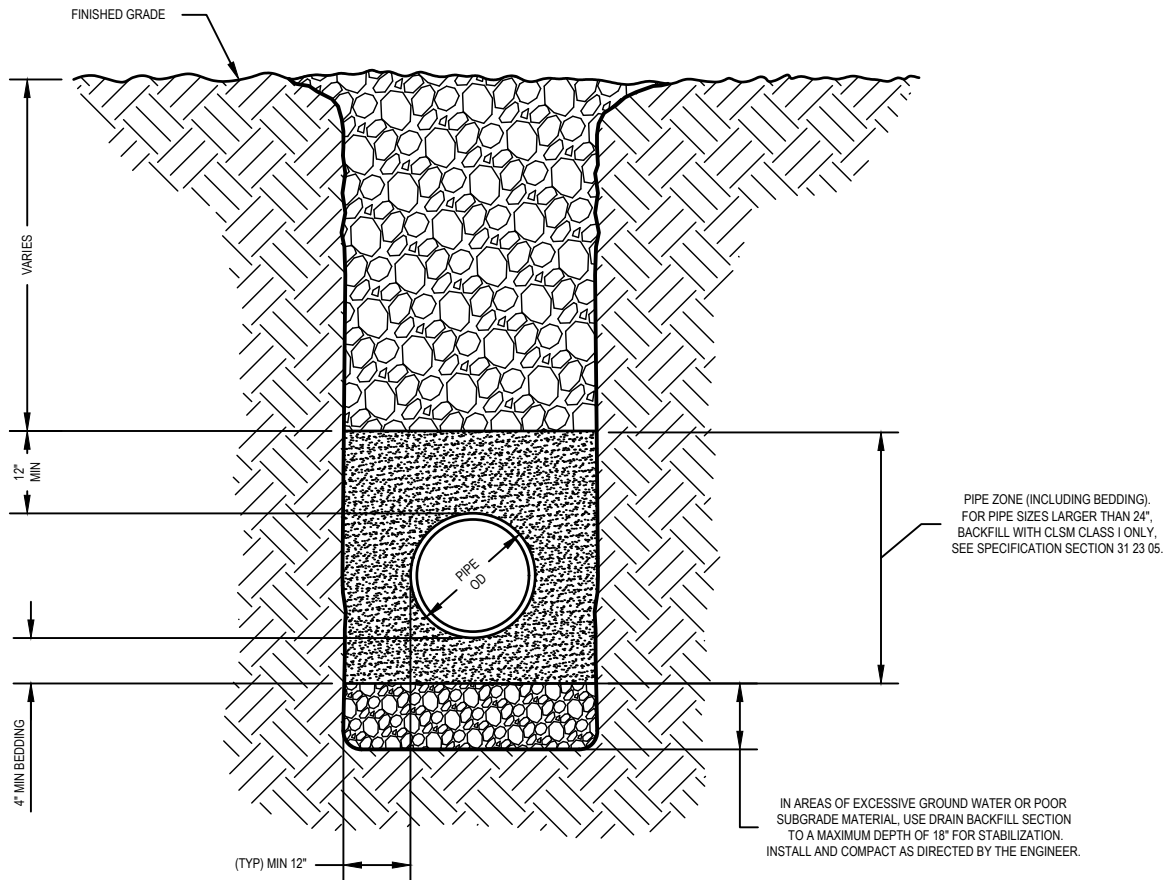
**NOTES:**

1. SEE SPECIFICATION SECTION 31 23 05 FOR OTHER PIPE BEDDING, HAUNCHING, COVER AND, BACKFILL REQUIREMENTS.
2. MINIMUM TRENCH WIDTH SHALL BE PIPE OUTSIDE DIAMETER PLUS 24".
3. BEDDING, HAUNCHING AND INITIAL COVER FOR PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF THE UNI-BELL HANDBOOK OF PVC PIPE, LATEST EDITION, AND THE PIPE MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE SUITABLE FOUNDATION AS REQUIRED BY THE AGENCY IN AREAS OF UNSTABLE TRENCH BOTTOM, WET CONDITIONS, OVER-EXCAVATION, ROCKY TRENCH BOTTOM AND ELSEWHERE AS DIRECT BY THE AGENCY. DEPTH OF FOUNDATION SHALL BE 12" FOR PIPE 15" OR LESS, 24" FOR PIPE GREATER THAN 15".
5. TRENCH WALL SUPPORT SHALL CONFORM TO OSHA REQUIREMENTS.



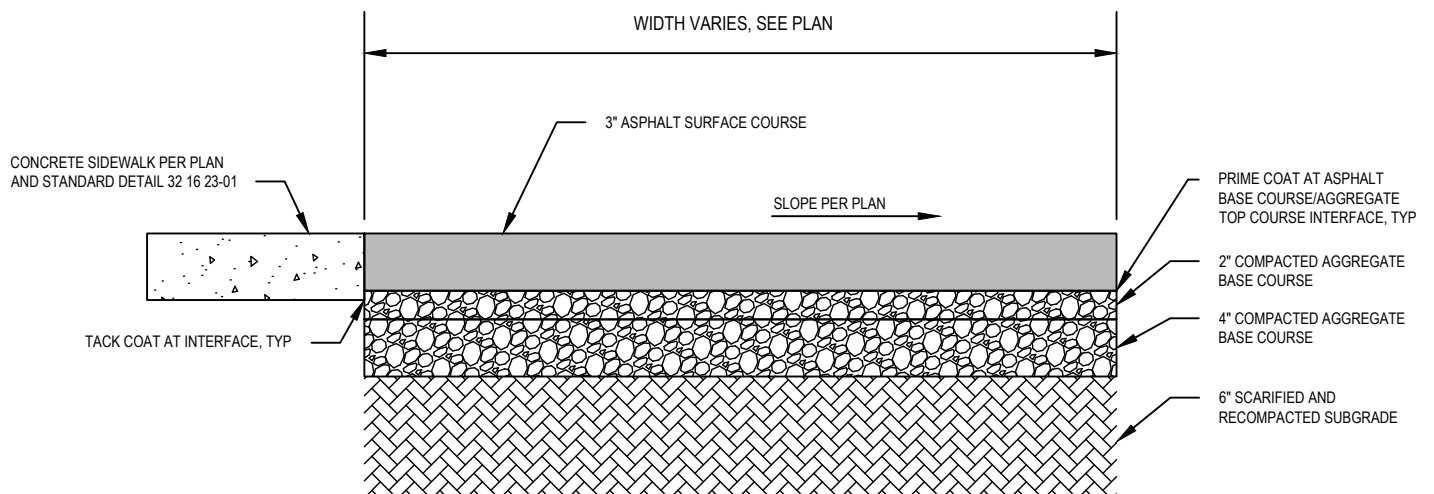
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PIPE BEDDING, HAUNCH SUPPORT, AND INITIAL COVER**

DATE  
04/11/2025  
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ISSUE FOR REVIEW  
DETAIL NUMBER  
31 23 05-02



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TRENCH BACKFILL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
31 23 05-03



NOTE:

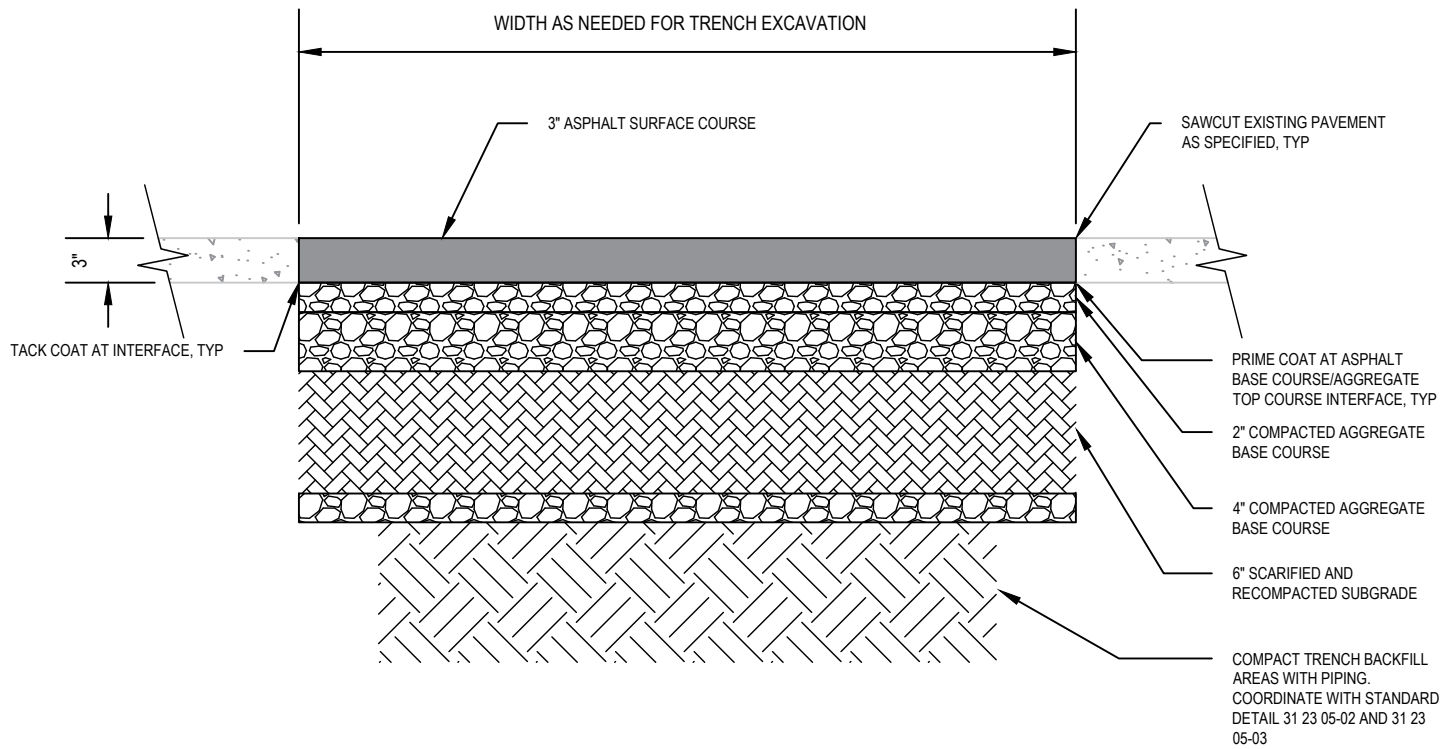
1. SEE SPECIFICATION SECTION 32 12 00 FOR ASPHALT PAVING DETAILS



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL PAVING SECTION**

DATE  
**04/11/2025**  
ISSUE  
**ISSUE FOR REVIEW**

DETAIL NUMBER  
**32 12 00-01**



**NOTE:**

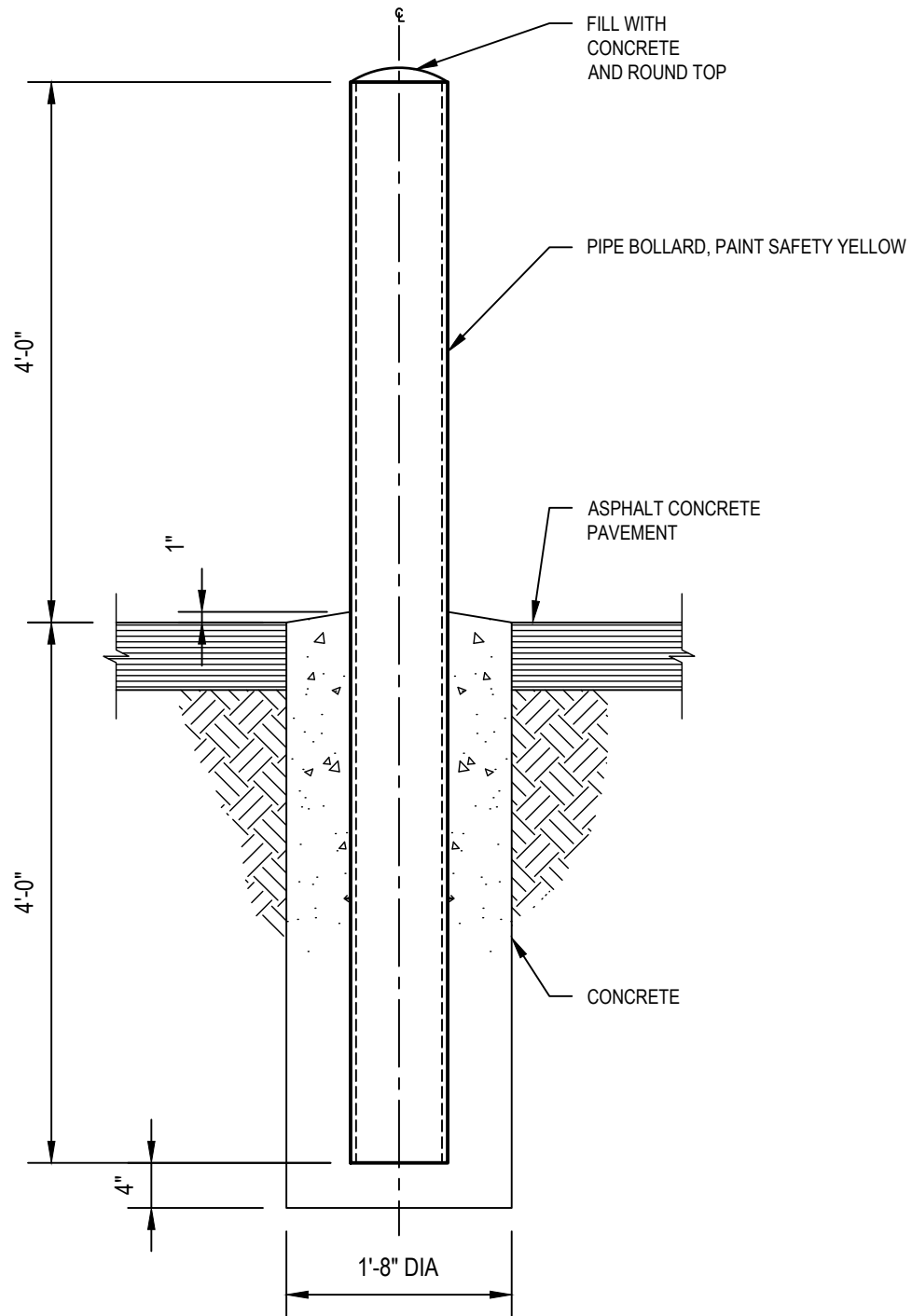
1. SEE SPECIFICATION SECTION 32 12 00 FOR ASPHALT PAVING DETAILS



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PAVEMENT SURFACE REPAIR**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW

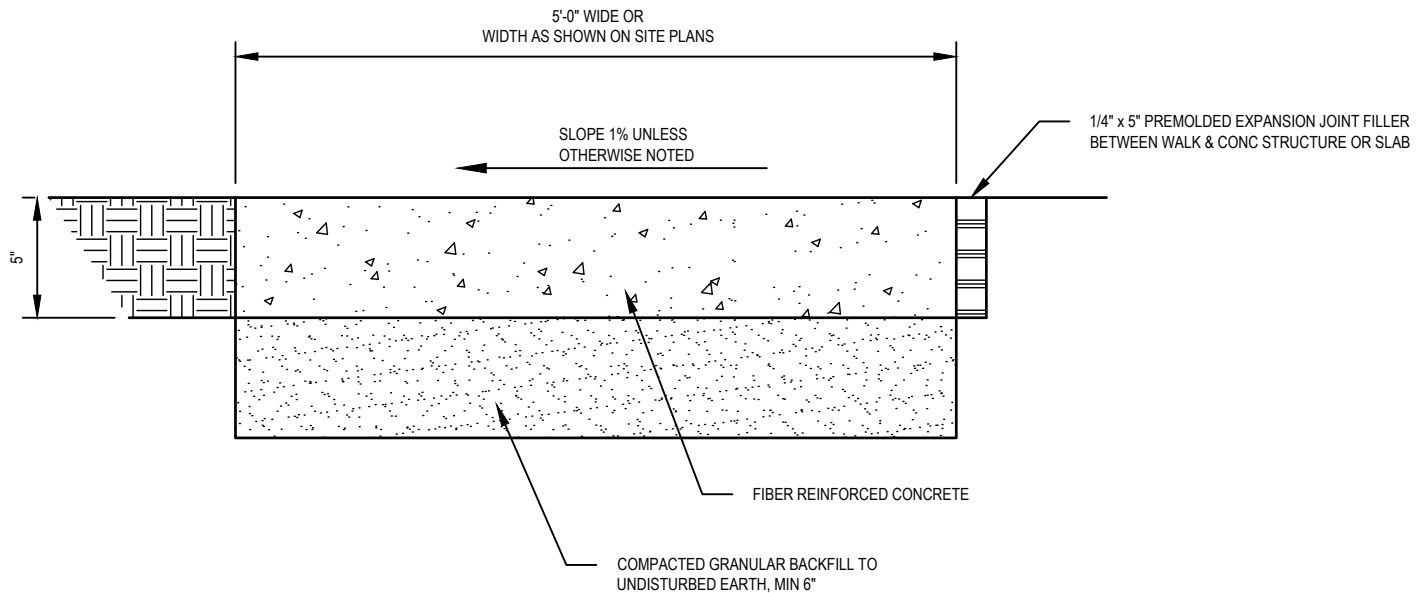
DETAIL NUMBER  
32 12 00-02



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
BOLLARD**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
32 12 00-03





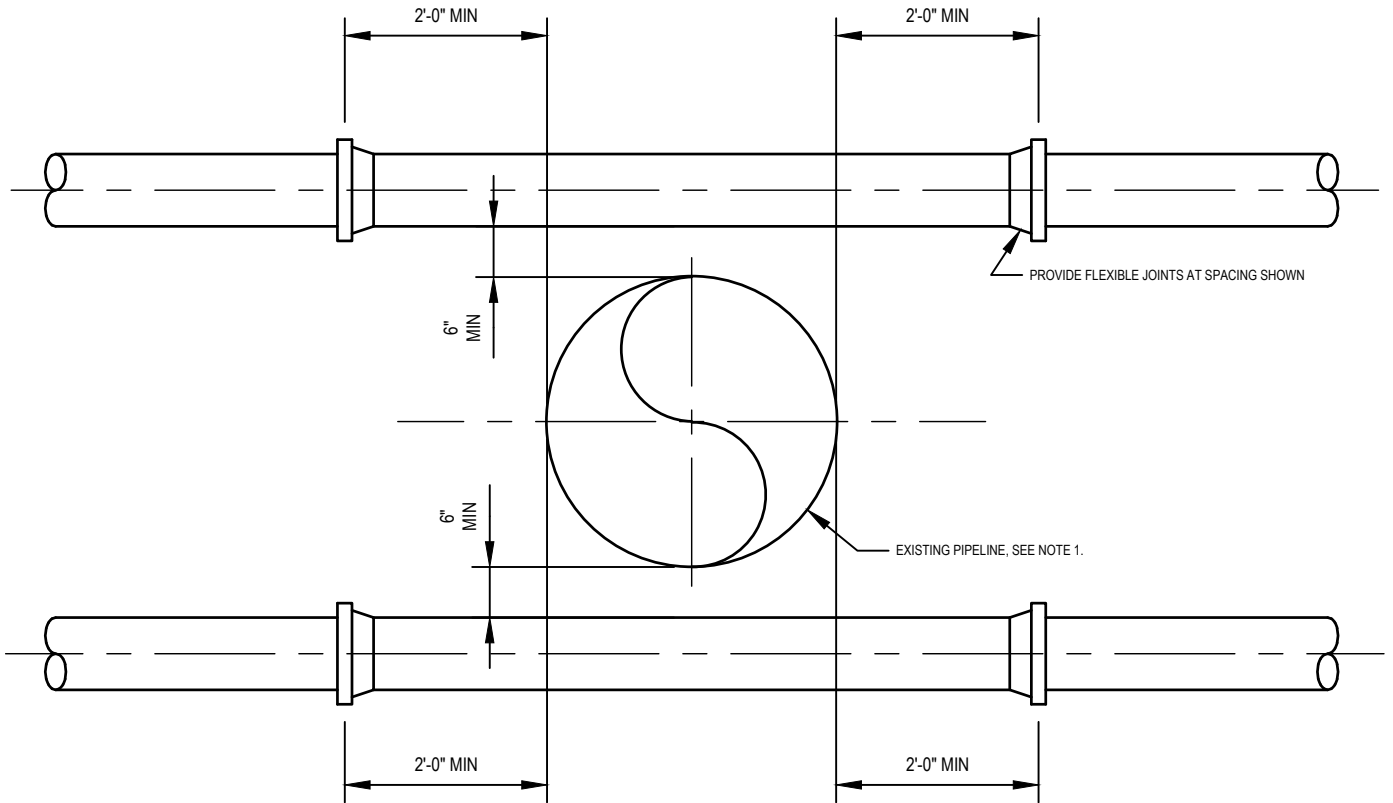
**NOTES:**

1. PROVIDE TOOLED CONTRACTION JOINTS AT SAME INTERVAL AS WALK WIDTH.
2. PROVIDE EXPANSION JOINTS CONSISTING OF 1/4" CONCRETE PREMOLDED JOINT FILLER AT SPACING NOT GREATER THAN 30 FEET.
3. SEE SPECIFICATION SECTION 03 31 30 FOR FIBER REQUIREMENTS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL CONCRETE WALK**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
32 16 23-01



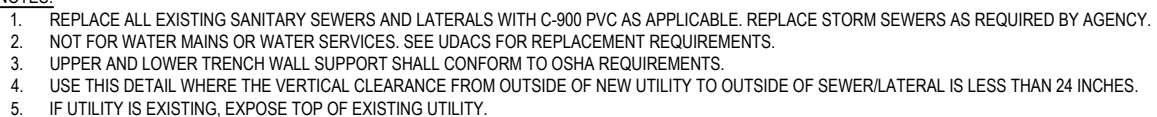
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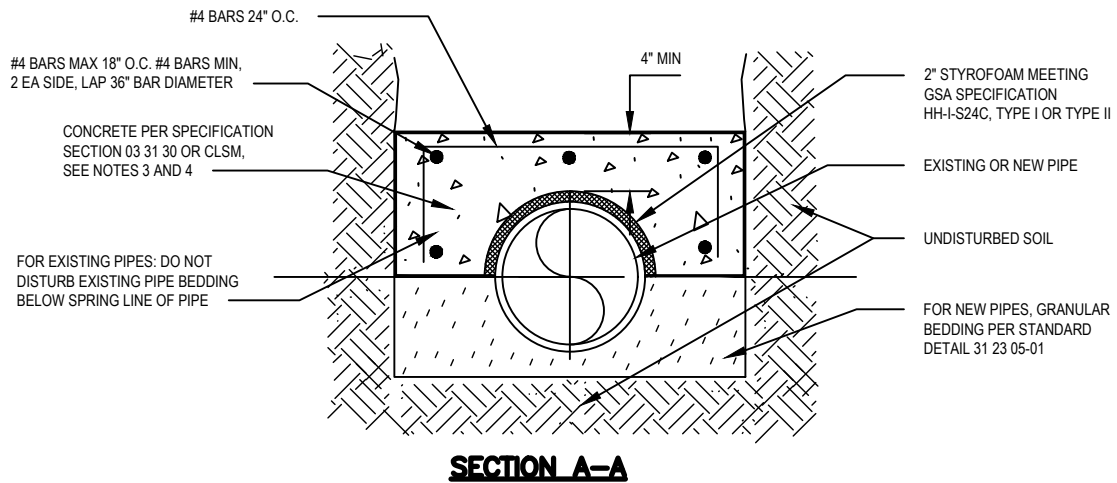
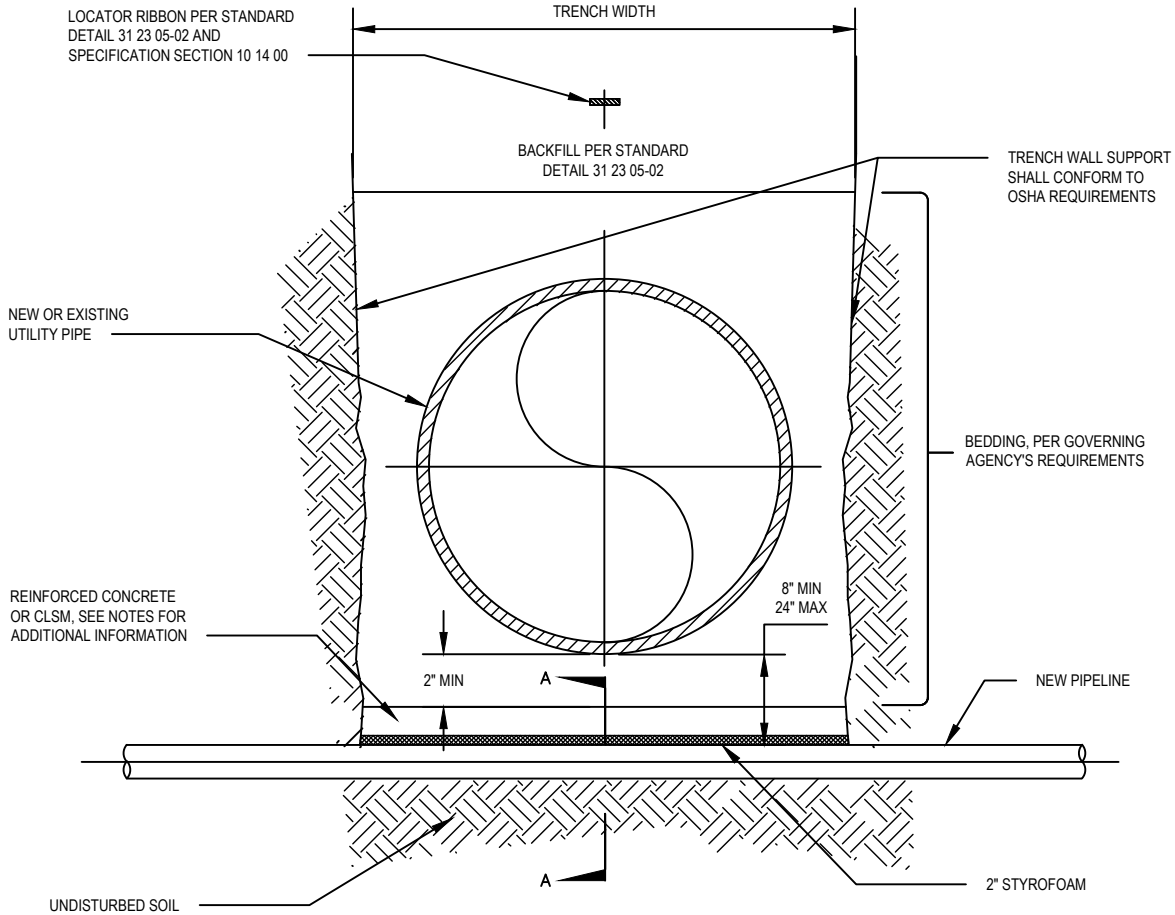
1. NOT APPLICABLE TO WATER AND SEWER LINE CROSSINGS.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
TYPICAL PIPE JOINT LOCATIONS AT PIPELINE CROSSINGS**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-01





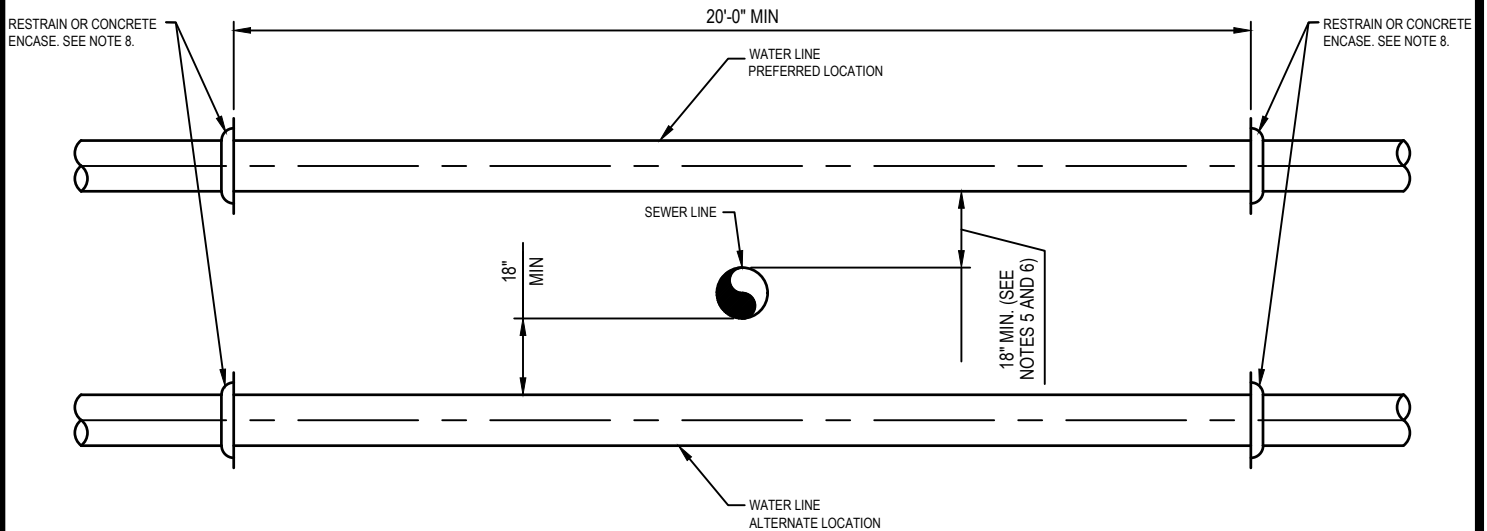
**NOTES:**

1. USE THIS DETAIL WHERE THE VERTICAL CLEARANCE FROM OUTSIDE OF UTILITY PIPE TO OUTSIDE OF SEWER/LATERAL IS LESS THAN 24 INCHES AND GREATER THAN 8".
2. WHERE VERTICAL CLEARANCE FROM OUTSIDE OF UTILITY PIPE TO OUTSIDE OF SEWER/LATERAL IS LESS THAN 8", CONTACT GOVERNING AGENCY FOR REQUIREMENTS.
3. FOR UTILITY PIPES GREATER THAN 24" IN DIAMETER WITH 24" OR LESS COVER, CONTRACTOR SHALL USE CONCRETE.
4. FOR UTILITY PIPES 24" OR LESS IN DIAMETER WITH 24" OR LESS COVER, CONTRACTOR SHALL USE CLSM.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PROTECTION OF NON-POTABLE PIPELINE UNDER A UTILITY**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-03



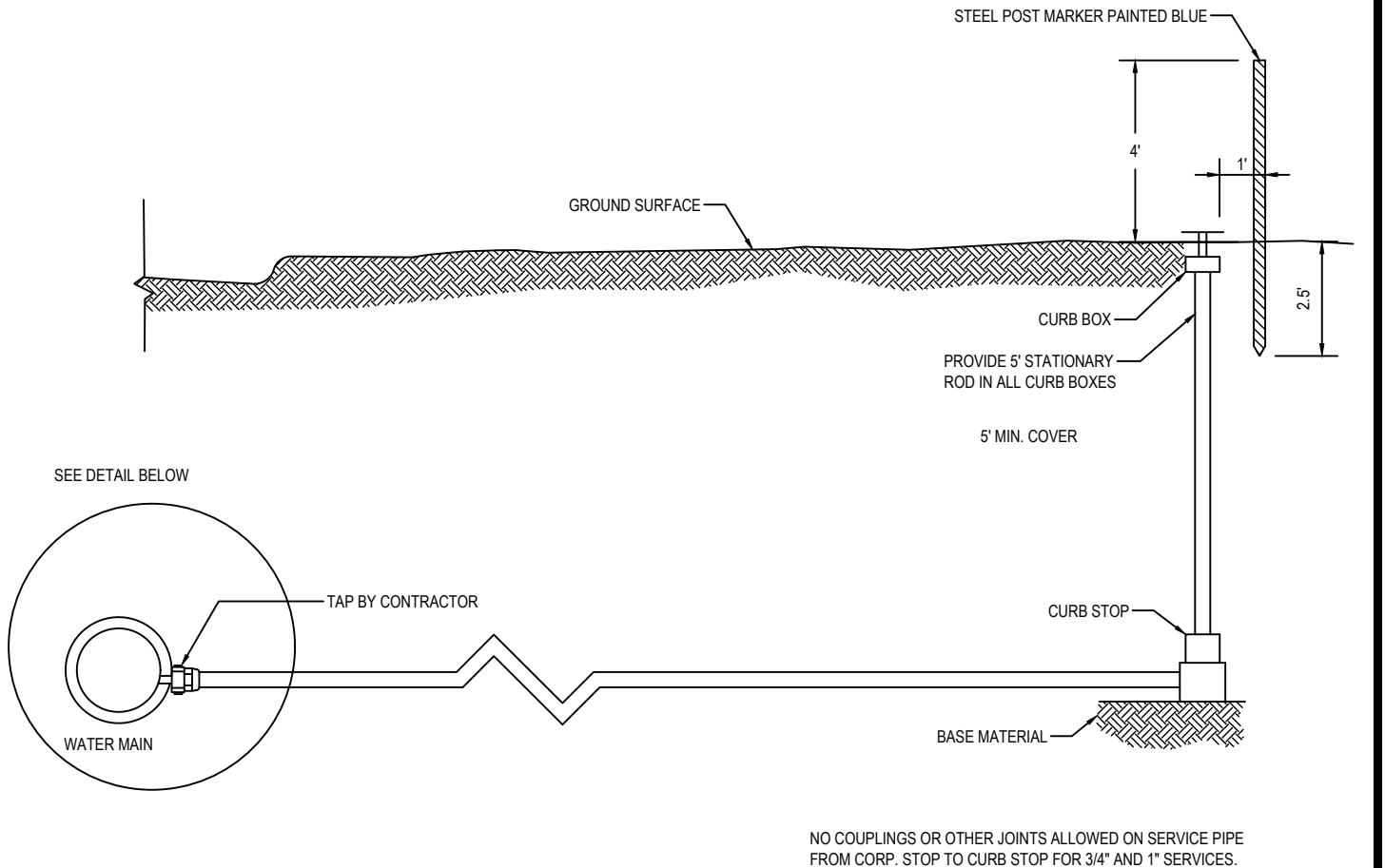
**NOTES:**

1. CROSSINGS IN ACCORDANCE WITH IDAPA §8.01.08.
2. INSTALL AIR RELIEF VALVE WITH NEW PRECAST CONCRETE VALVE VAULT IF CROSSING CREATES A HIGH POINT IN NEW PIPE.
3. INSTALL RESTRAINED JOINT FITTINGS FOR VERTICAL OR HORIZONTAL ALIGNMENT CHANGES REQUIRED TO AVOID UTILITY CONFLICTS.
4. "SEWER LINE" IS UNDERSTOOD TO INCLUDE ANY NON-POTABLE SERVICES ASSOCIATED WITH THE WRF, INCLUDING, BUT NOT LIMITED TO: RAW SEWAGE (RS), FILTER EFFLUENT (FE), SLUDGE (SL), ETC.
5. SEWER LINE INSTALLED WITH LESS THAN 18" VERTICAL SEPARATION BELOW POTABLE LINE SHALL UTILIZE A C-900 PIPE SLEEVE WITH CLSM ENCASUREMENT IN ANNULAR SPACE BETWEEN SEWER LINE AND PIPE SLEEVE.
6. SEWER LINE INSTALLED WITH 18" OR GREATER VERTICAL SEPARATION BELOW POTABLE LINE SHALL HAVE POTABLE JOINTS AS FAR AS POSSIBLE FROM SEWER LINE AND SEWER LINE SHALL USE CONCRETE BEDDING PER STANDARD DETAIL 31 23 05-01 TO PREVENT SETTLING.
7. SEWER LINES INSTALLED ABOVE POTABLE LINES SHALL NOT BE INSTALLED WITH LESS THAN 18" VERTICAL SEPARATION.
8. CROSSING POTABLE PIPELINES WITH NON-POTABLE PIPELINES SHALL BE PERPENDICULAR. IF POTABLE PIPELINE IS EXISTING, INSTALL NON-POTABLE CROSSING AS FAR BETWEEN POTABLE JOINTS AS POSSIBLE.

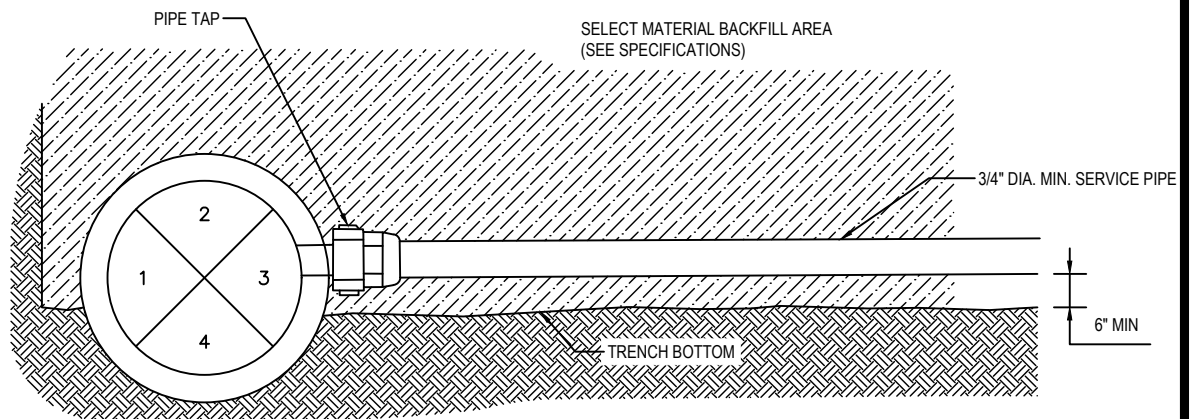


**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
WATER/SEWER CROSSING DETAIL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-04



DETAIL OF A PROPERLY INSTALLED CORPORATION STOP. TAP MAIN AT SPRINGLINE.



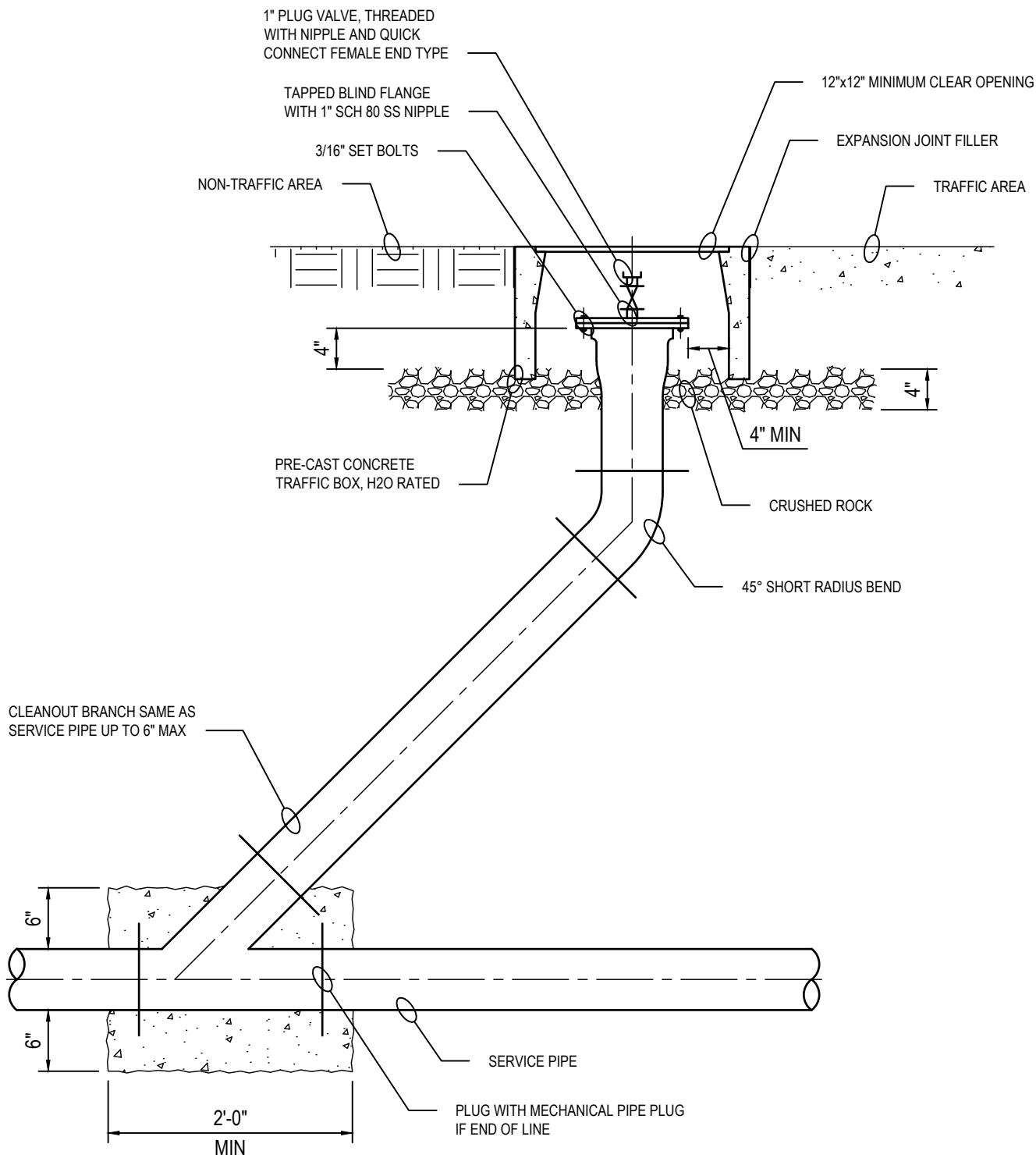
GENERAL NOTES:

1. WATER SERVICE LINES SHALL HAVE A MINIMUM 5-FOOT COVER MEASURED FROM THE EXISTING GROUND SURFACE.
2. WATER SERVICE LINES SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS OR AS SPECIFIED.
3. BEDDING SHALL BE 1" DIA. MAXIMUM WITHIN 6" OF SERVICE PIPE.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
WATER SERVICE LINE**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-05



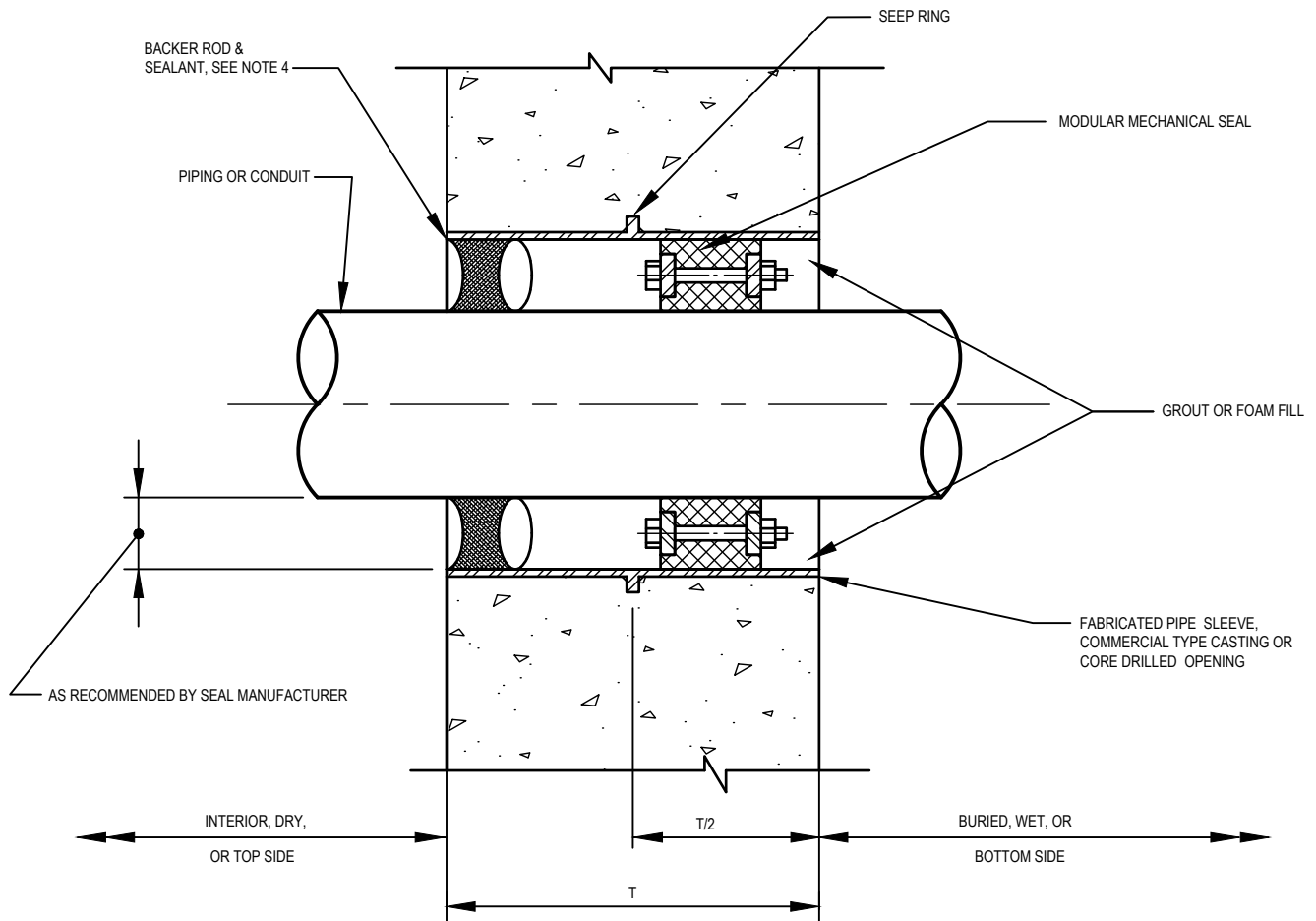
**NOTE:**

1. PROVIDE RESTRAINED JOINTS



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PRESSURE CLEANOUT AT GRADE**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-06



**NOTES:**

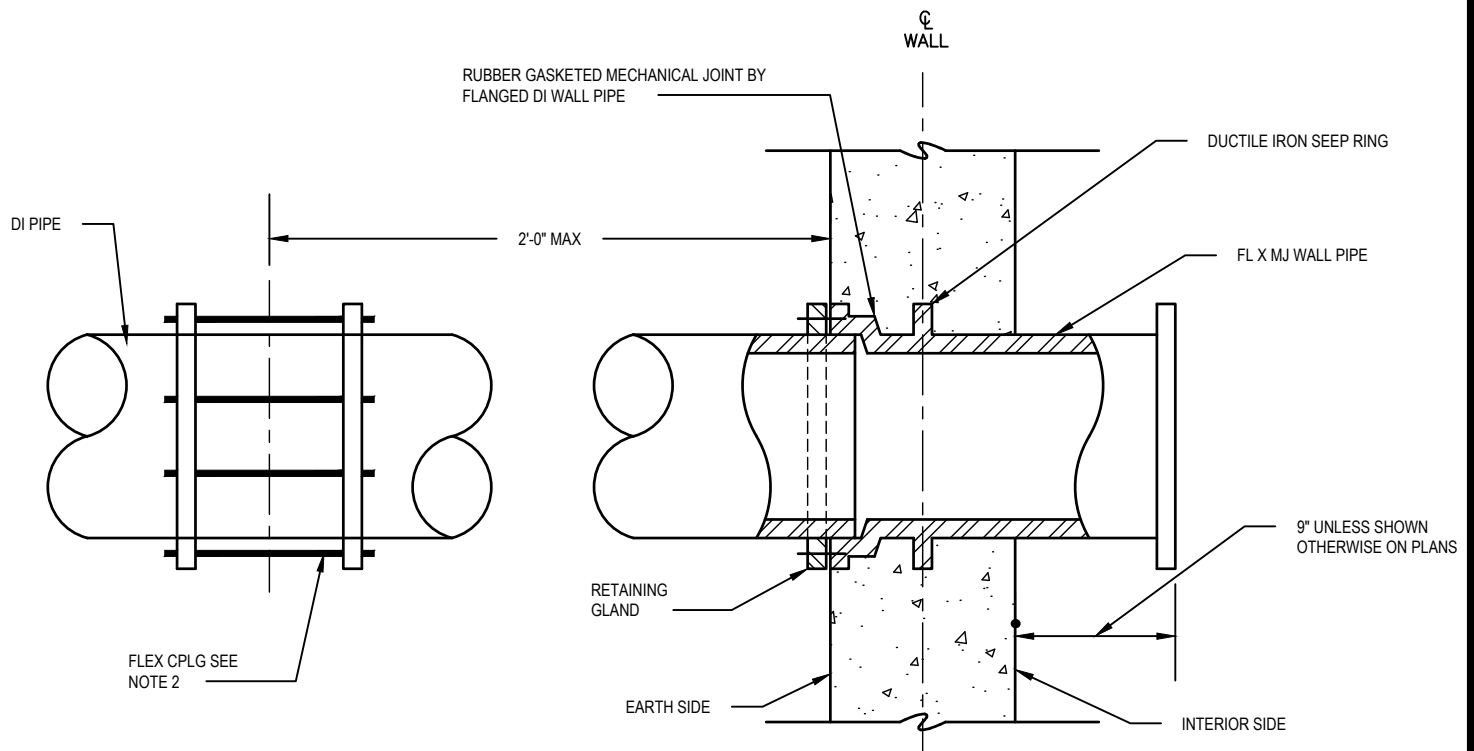
1. BOLT HEADS ON ACCESSIBLE SIDE OF PENETRATION.
2. PROVIDE DOUBLE ROW OF SEALS FOR PIPES 16" DIAMETER AND LARGER IF CONCRETE THICKNESS PERMITS.
3. ONE SEAL FOR WALLS LESS THAN 8" THICK, TWO FOR WALLS 8" THICK AND LARGER.
4. INSTALL BACKER ROD AND SEALANT ONLY ON TOP SIDE OF SLABS OR AT FINISHED WALLS.
5. PIPE PENETRATION TYPE C PER SPECIFICATION SECTION 01 73 20.
6. SEAL PER SPECIFICATION SECTION 01 73 20.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
MODULAR MECHANICAL SEAL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-07





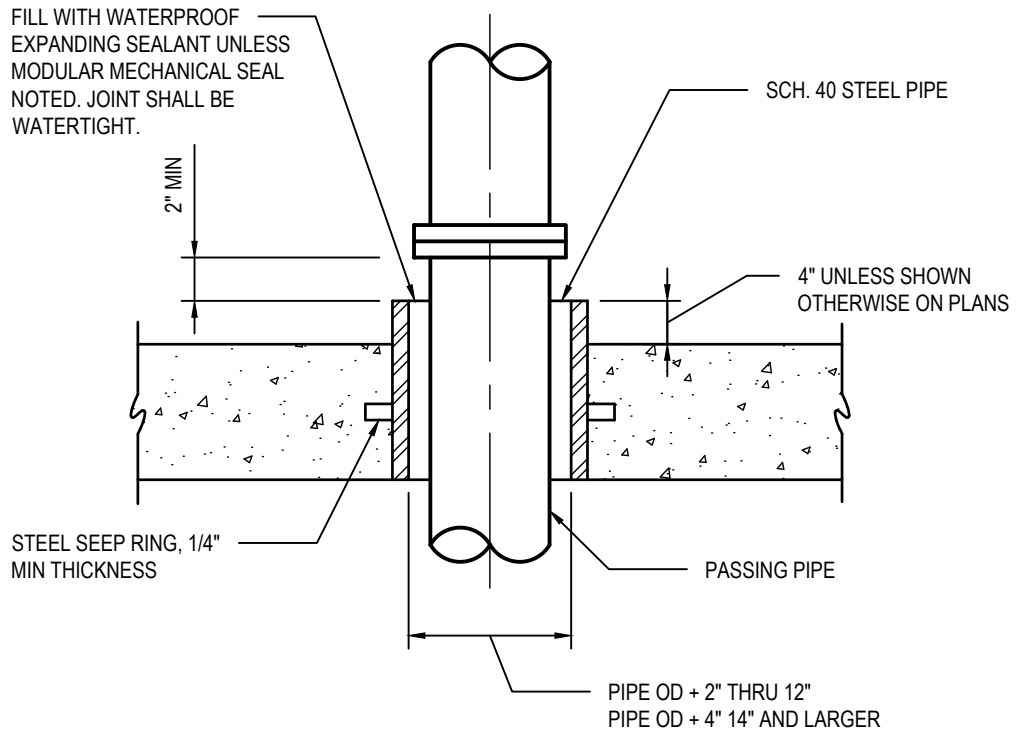
**NOTES:**

1. COAT & LINE WALL PIPE w/ SPECIFIED PAINT AND/OR CEMENT SYSTEMS PRIOR TO CONC PLACEMENT.
2. PROVIDE TWO FLEX CPLGS WHERE SHOWN, SECOND CPLG TO BE 2'-0" FROM FIRST CPLG.
3. PIPE JOINT IS NOT RESTRAINED AT SLEEVE COUPLING.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
WALL PIPE**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-08



**NOTE:**

1. LINE AND COAT WALL PIPE IN ACCORDANCE WITH SPECIFICATION SECTION 09 96 00 PRIOR TO CONCRETE PLACEMENT.
2. CONTRACTOR OPTION TO USE HDPE WALL PIPE IN LIEU OF STEEL.



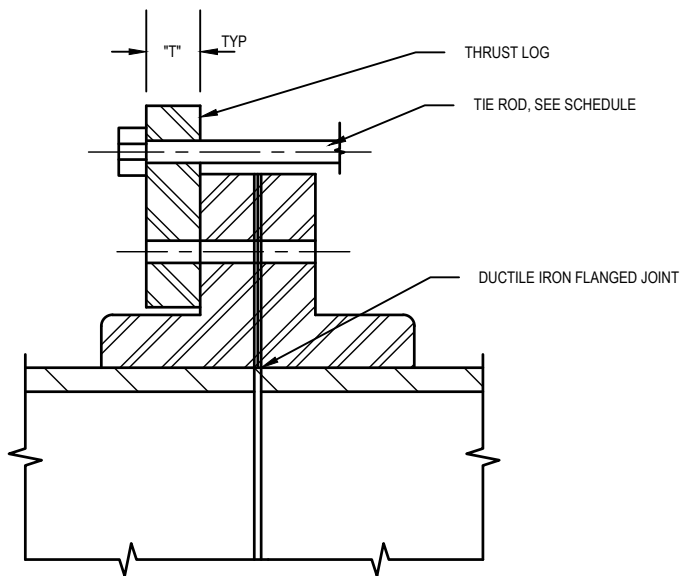
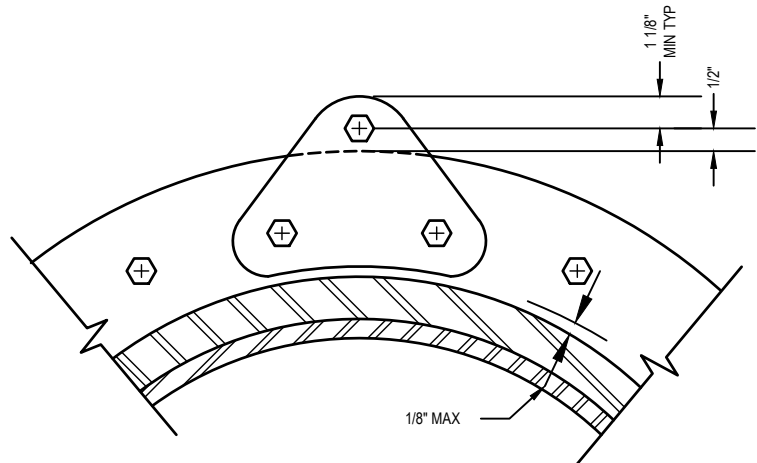
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
STEEL FLOOR SLEEVE**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-09

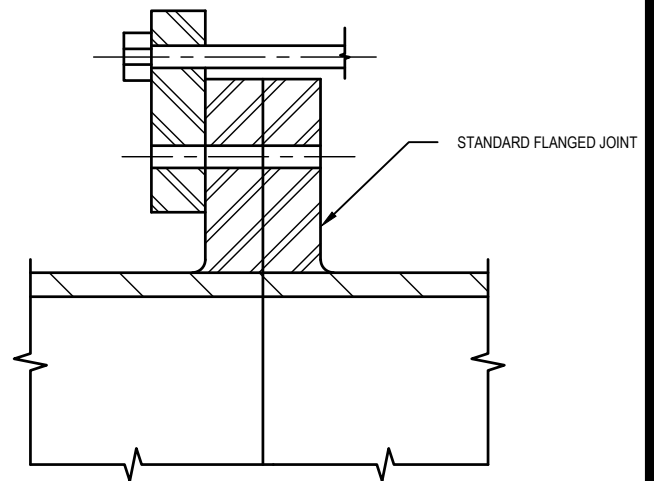
PIPE DIA (IN)	TIE ROD DIA (IN)	"T" MINIMUM LUG THICKNESS DIA (IN)
4 - 6	5/8	1/2
8 - 12	5/8	1/2
14 - 18	5/8	7/8
20 - 24	5/8	1 1/4

**NOTE:**

1. MAXIMUM PIPE PRESSURE = 50 PSI
2. GRIND ALL EDGES SMOOTH



**DI PIPE**



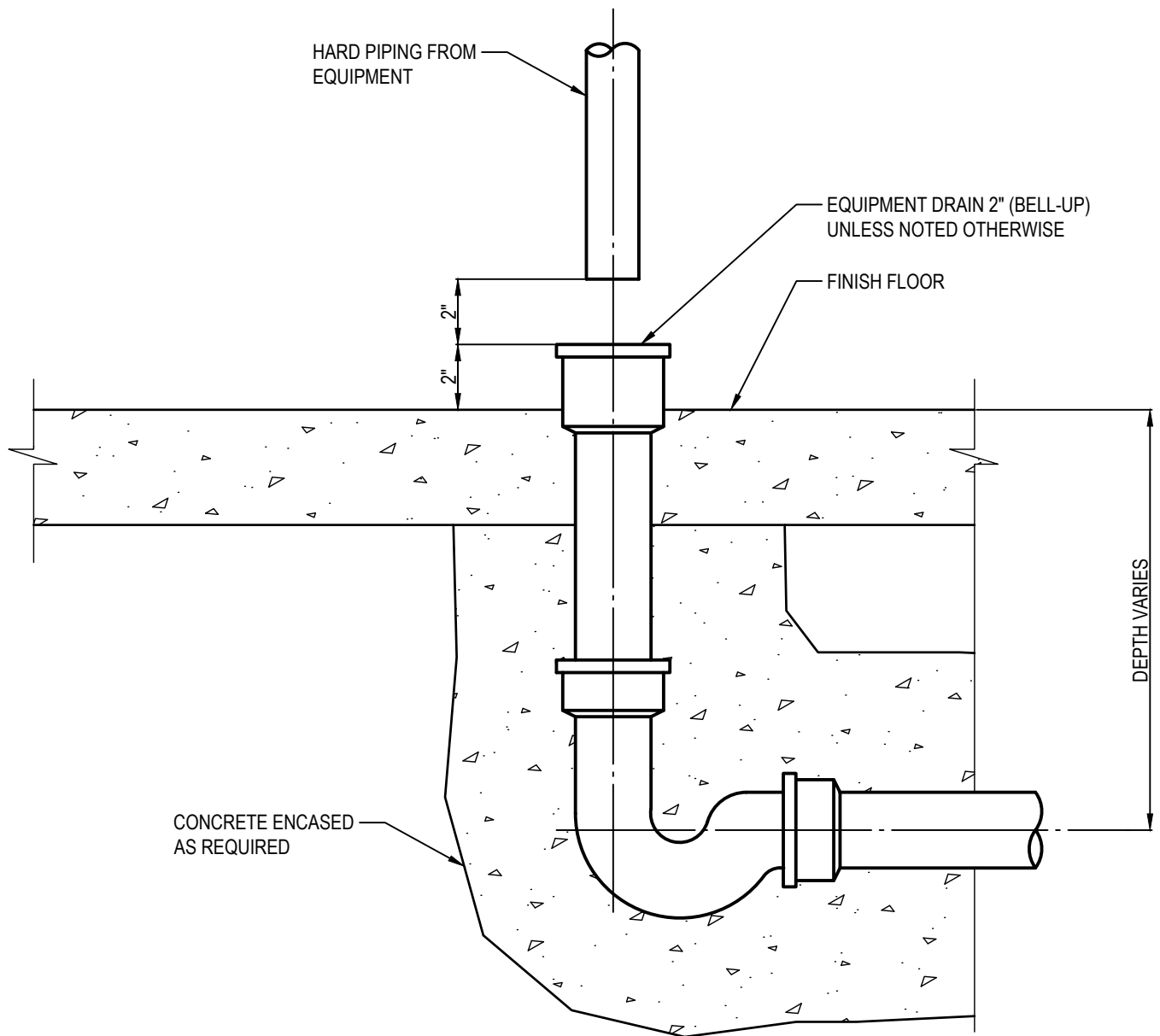
**STEEL PIPE**

**SECTIONS**



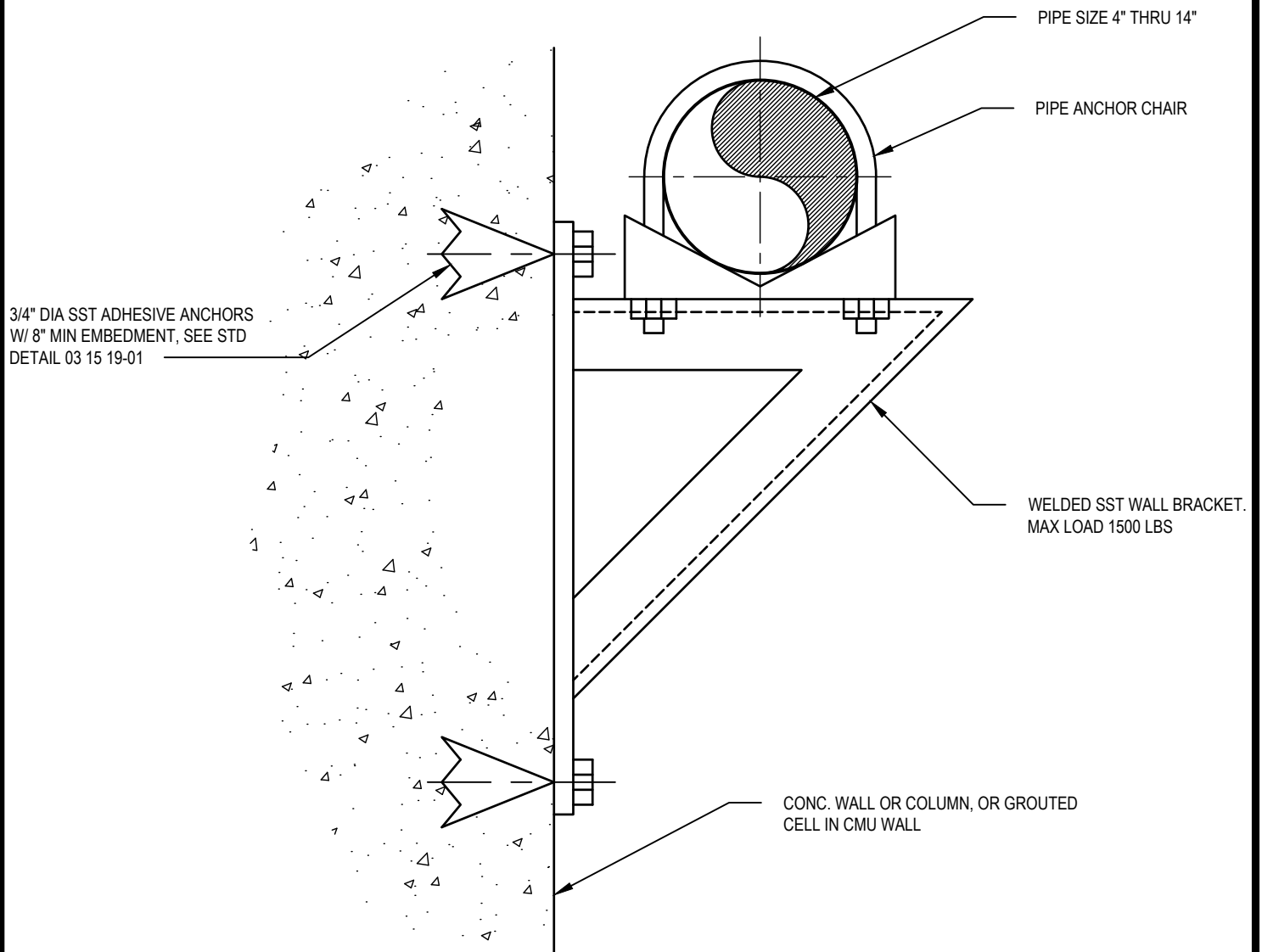
**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
THRUST TIE FOR FLEXIBLE COUPLING**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-10



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
EQUIPMENT DRAIN BELL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 00-11



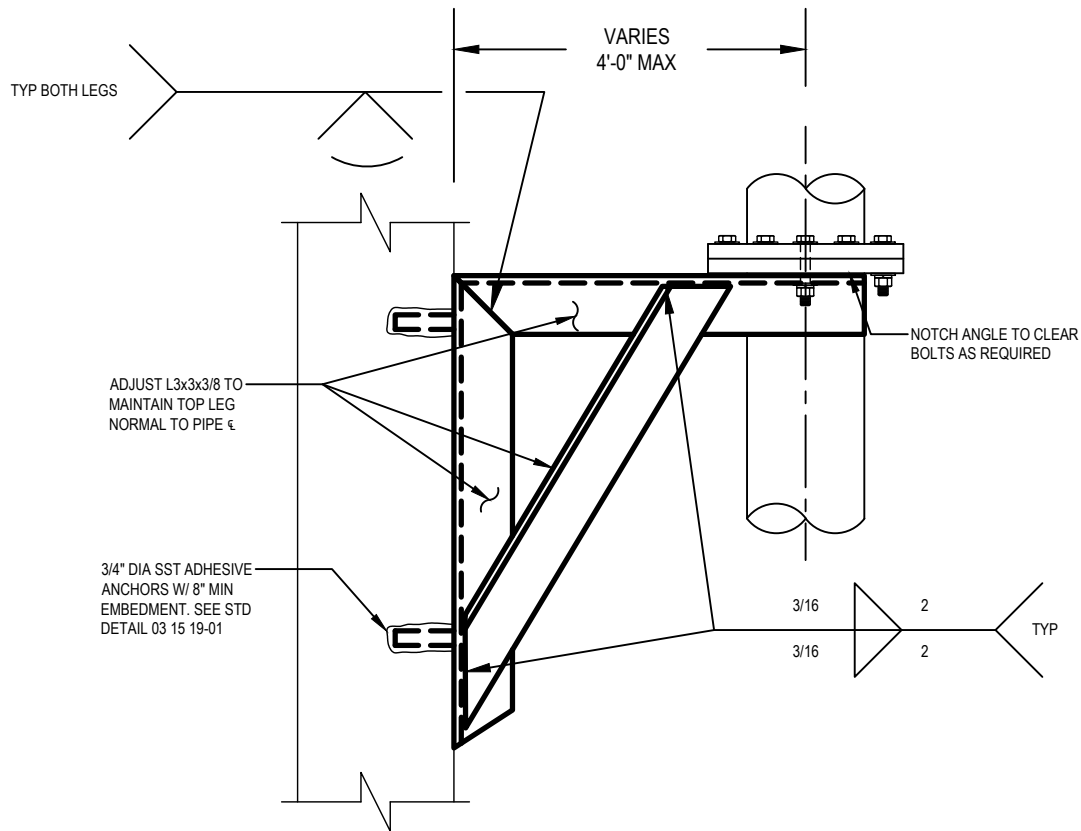
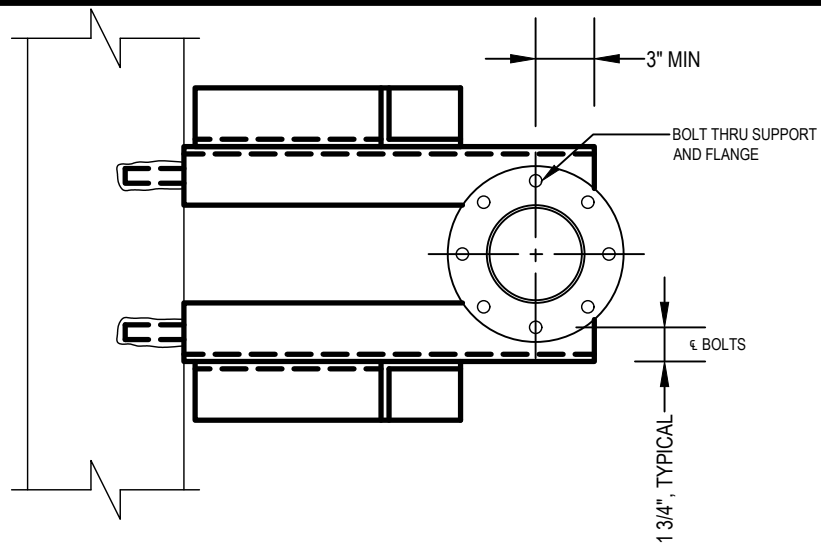
**NOTES:**

1. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTION 40 05 07.
2. CONTRACTOR SHALL SUBMIT STRUCTURAL DESIGN CALCULATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 01 18 10 AND 40 05 07.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
KNEE BRACE SUPPORT**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-01



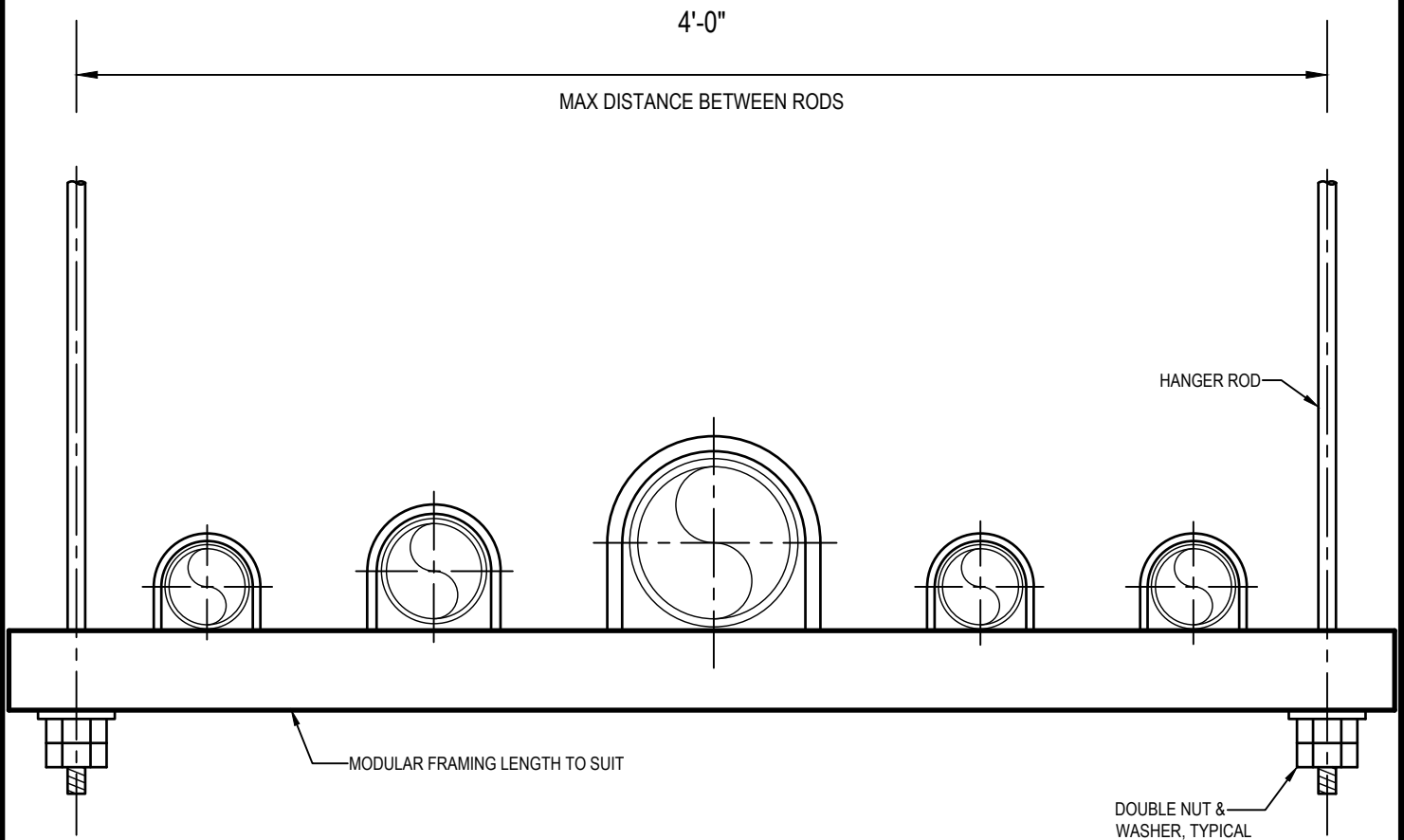
**NOTE:**

1. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTION 40 05 07.
2. CONTRACTOR SHALL SUBMIT STRUCTURAL DESIGN CALCULATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 01 18 10 AND 40 05 07.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
RISER PIPE SUPPORT**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-02



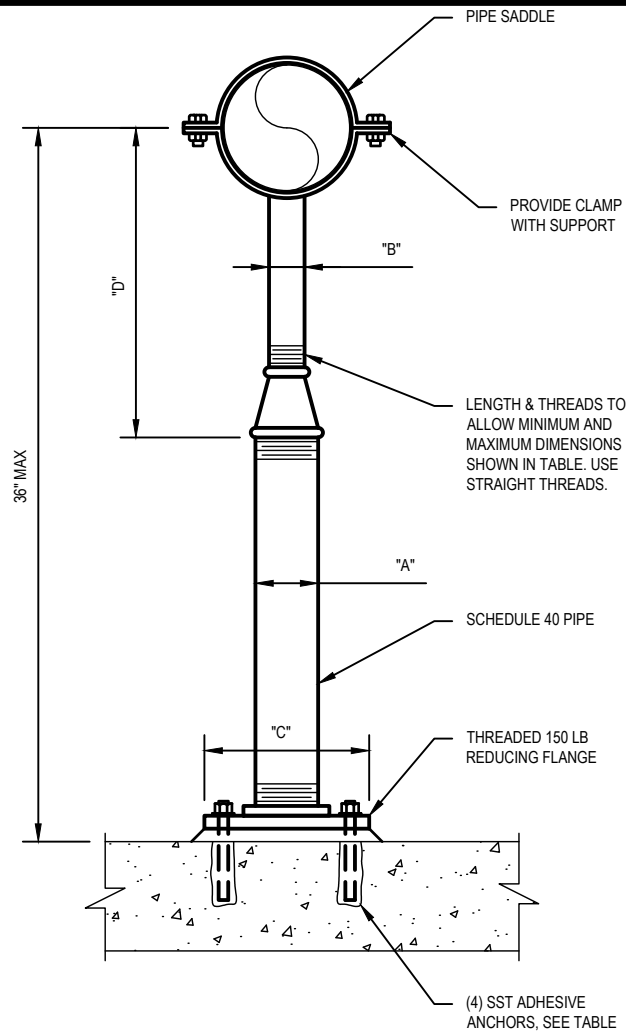
**NOTES:**

1. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTION 40 05 07.
2. CONTRACTOR SHALL SUBMIT STRUCTURAL DESIGN CALCULATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 01 18 10 AND 40 05 07.
3. WHEN INSULATED PIPING IS BEING SECURED TO SUPPORT BAR, THE INSULATION SHALL BE CONTINUOUS. DO NOT CUT INSULATION AT SUPPORT BARS. STRAPS OR U-BOLTS SHALL BE INSTALLED OVER INSULATION. PROVIDE SHEET METAL SADDLES BENEATH PIPING INSULATION.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
MODULAR TRAPEZE HANGER**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-03



**NOTES:**

1. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTION 40 05 07.
2. CONTRACTOR SHALL SUBMIT STRUCTURAL DESIGN CALCULATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 01 18 10 AND 40 05 07.
3. FOR SUPPORTS WITH GRAVEL OR ROCK BASE SURFACE, PLACE BASEPLATE ON MIN. 15"W x 15"L x 12"H CONCRETE BASE.

<b>FLOOR PIPE SUPPORT SCHEDULE</b>							
DIMENSIONS IN INCHES							
PIPE SIZE	"A"	"B"	"C"	"D"		ANCHORS	
				MINIMUM	MAXIMUM	DIA	EMBED
≤ 2 1/2	2 1/2	1 1/2	9	8	13	5/8	7
3	2 1/2	1 1/2	9	8 1/2	13 1/2	5/8	7
3 1/2	2 1/2	1 1/2	9	8 1/2	13 1/2	5/8	7
4	3	2 1/2	9	9 1/2	14	5/8	7
6	3	2 1/2	9	10 1/2	15 1/2	5/8	7
8	3	2 1/2	9	11 1/2	16 1/2	5/8	7
10	3	2 1/2	9	13 1/2	18 1/2	5/8	7
12	3	2 1/2	9	15	19 1/2	5/8	7
14	4	3	11	16 1/2	20 1/2	3/4	8
16	4	3	11	17 1/2	22 1/2	3/4	8
18	6	3 1/2	13 1/2	19 1/2	24	3/4	8
20	6	3 1/2	13 1/2	21	25 1/2	3/4	8
24	6	4	13 1/2	23 1/2	28 1/2	3/4	8
30	6	4	13 1/2	27	31 1/2	3/4	8
32	6	4	13 1/2	28 1/2	32 1/2	3/4	8
36	6	4	13 1/2	30 1/2	34 1/2	3/4	8



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
FLOOR PIPE SUPPORT**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-04

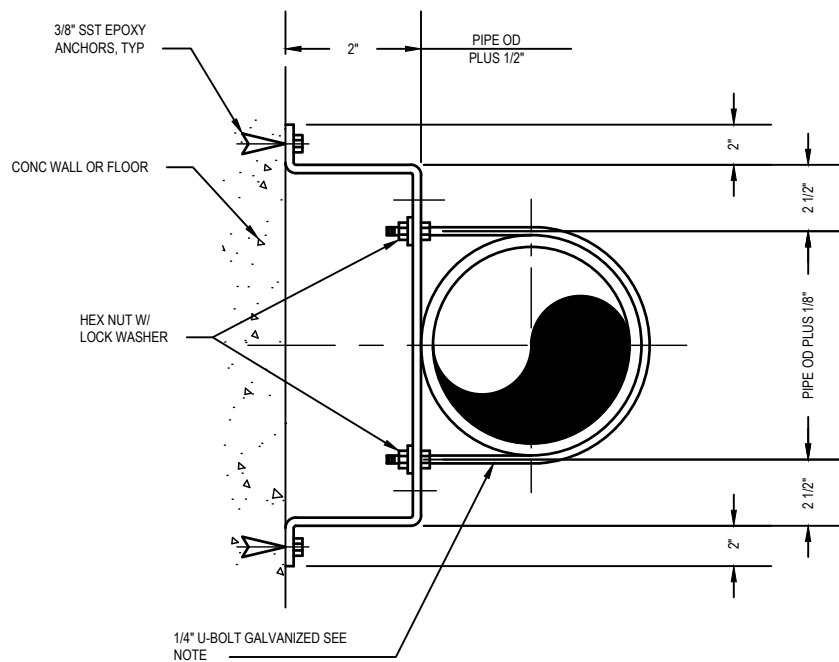


18 GA SST SHEET SLEEVE  
STRAPPED AROUND PIPE W/  
SST HOSE CLAMPS SEE NOTE

BAR 3 x 3/8" SST SEE NOTE

PLASTIC PIPE 4" TO 8"

## PLAN



## SECTION

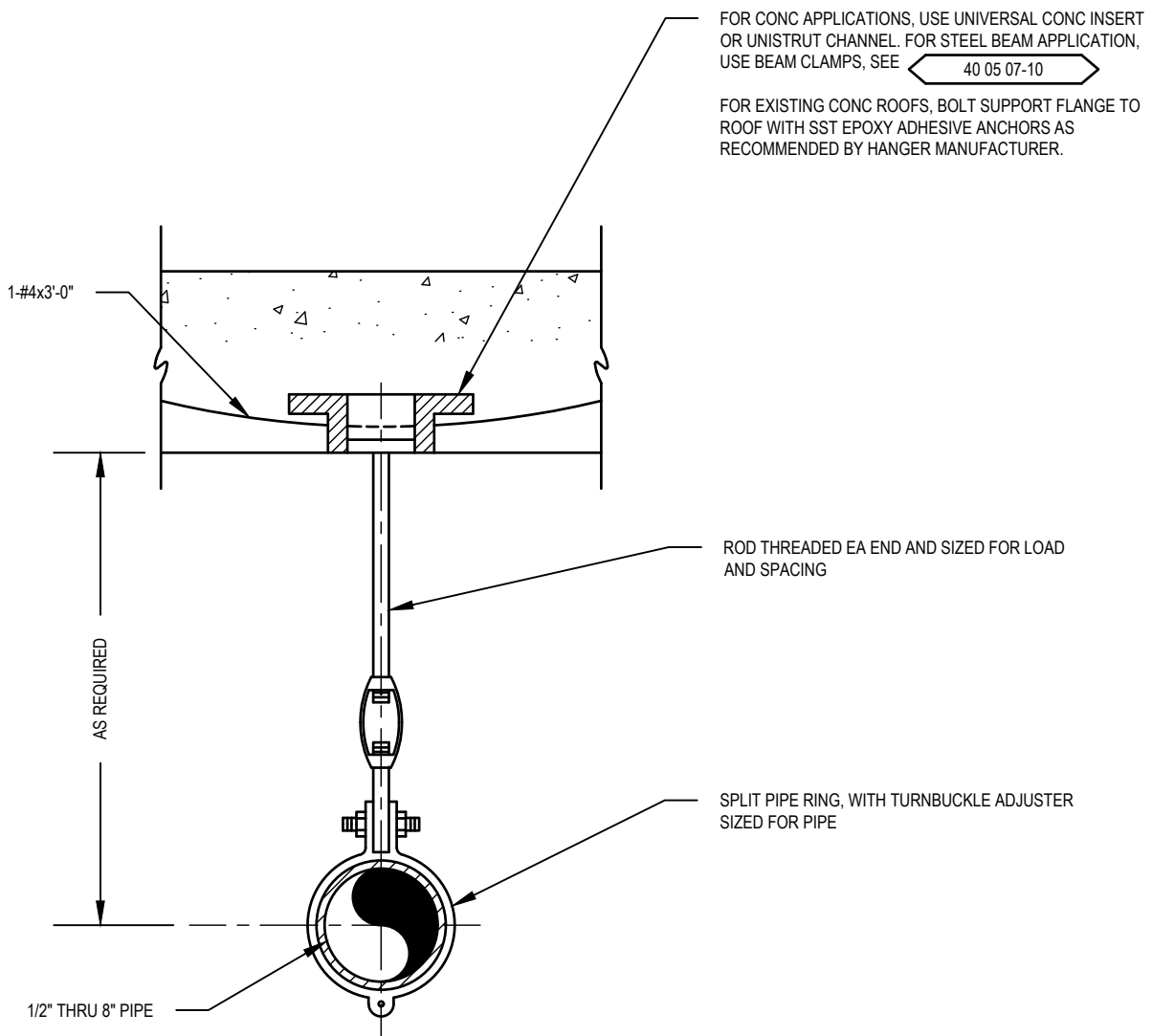
### NOTES:

1. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTION 40 05 07.
2. CONTRACTOR SHALL SUBMIT STRUCTURAL DESIGN CALCULATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 01 18 10 AND 40 05 07.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PLASTIC PIPE SUPPORT**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-05



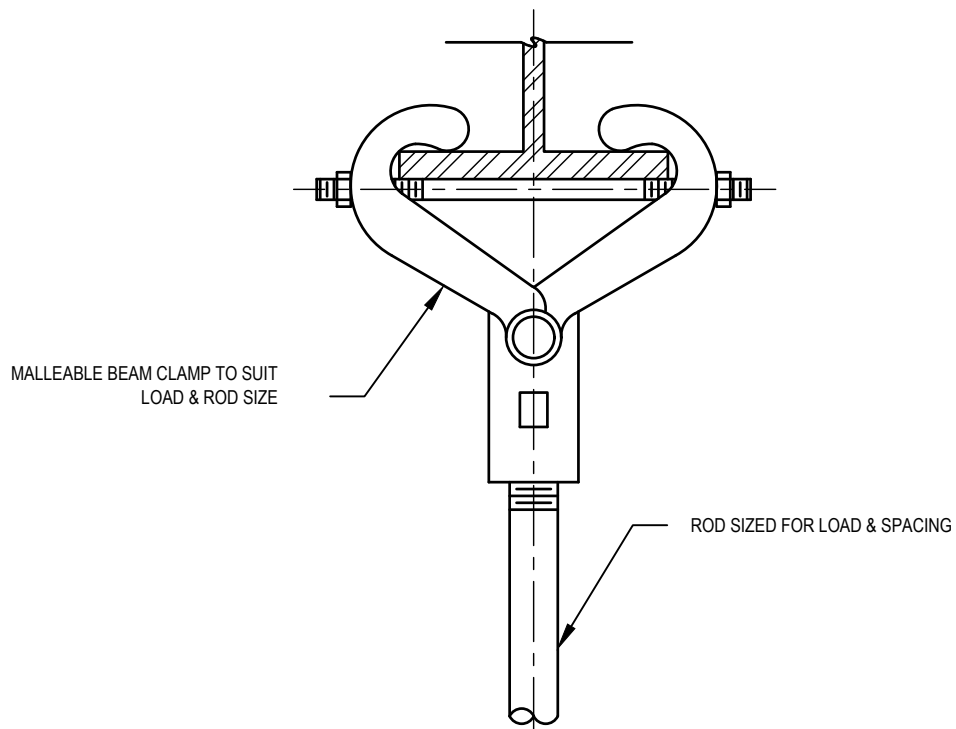
**NOTES:**

1. TOTAL LOADING ON EACH CONC. INSERT OR OTHER TYPE HANGER ROD ANCHOR SHALL NOT EXCEED MFR.'S RECOMMENDED LOADINGS.
2. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, REFERENCE SPECIFICATION SECTION 40 05 07.
3. PIPE INSULATION SHALL BE CONTINUOUS THROUGH HANGERS. PROVIDE METAL SADDLE TO PROTECT INSULATION.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PIPE HANGER DETAIL (TYPE 2)**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-06



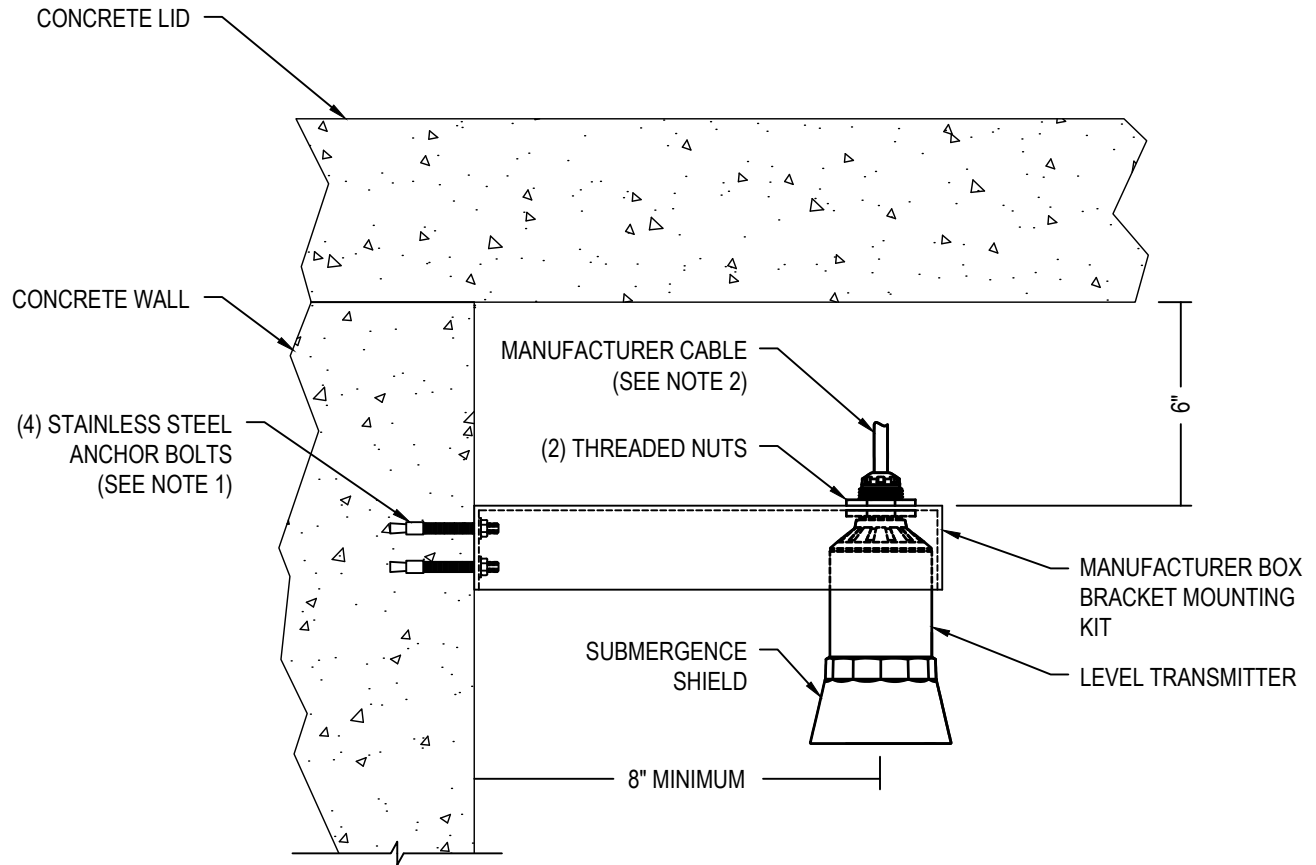
NOTE:

1. TOTAL LOADING OF EACH BEAM CLAMP SHALL NOT EXCEED MFR RECOMMENDED LOADINGS.
2. MATERIAL FOR ALL COMPONENTS SHALL BE 304 SST UNLESS NOTED OTHERWISE, REFERENCE SPECIFICATION SECTION 40 05 07.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
BEAM CLAMP**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 05 07-07



**NOTES:**

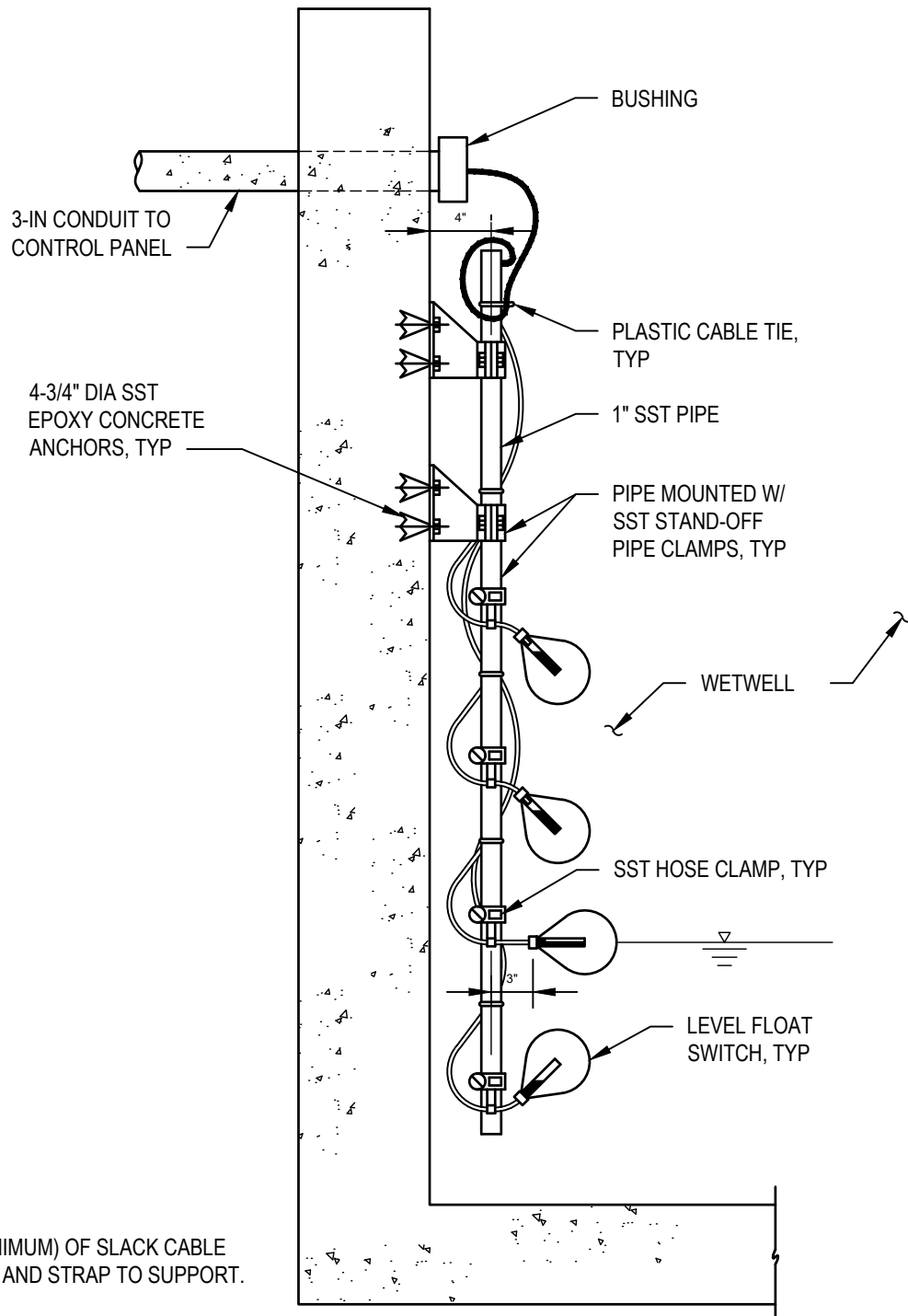
1. SIZE ANCHOR BOLTS PER BOX BRACKET REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS. 3-1/2" EMBEDMENT MINIMUM.
2. ROUTE MANUFACTURER CABLE VIA CONDUIT (NOT SHOWN) TO REMOTE DISPLAY OR TRANSMITTER. PROVIDE SUFFICIENT LENGTH OF LIQUID-TIGHT FLEXIBLE CONDUIT TO FACILITATE REMOVAL OF SENSOR.



**KETCHUM / SVWSD WATER RECLAMATION FACILITY  
SOLIDS DEWATERING IMPROVEMENTS**

**RADAR LEVEL TRANSMITTER WET WELL**

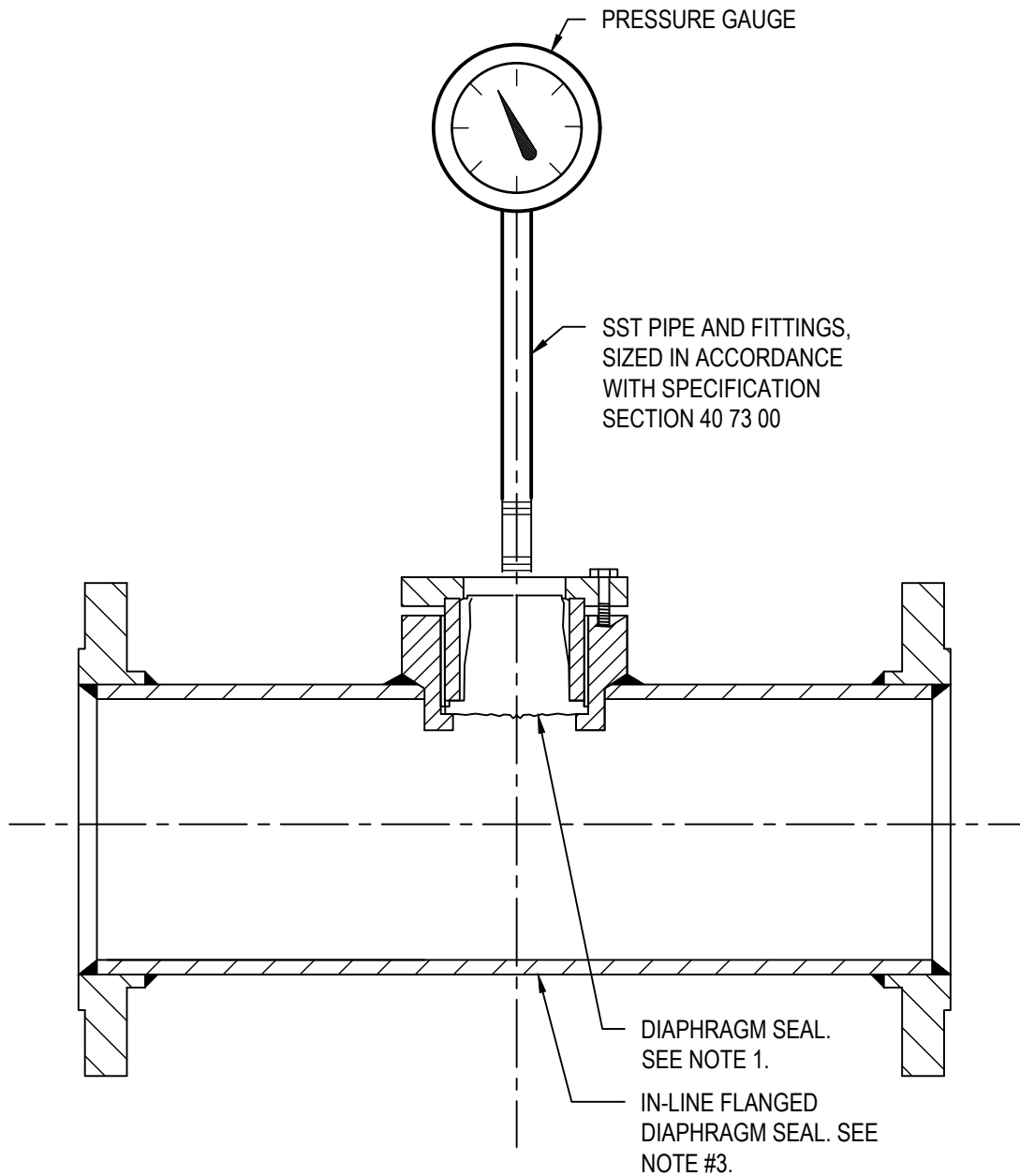
DATE  
02/07/2025  
ISSUE  
ISSUED FOR BID  
AND CONSTRUCTION  
DETAIL NUMBER  
40 72 00-01



# KETCHUM / SVWSD WATER RECLAMATION FACILITY SOLIDS DEWATERING IMPROVEMENTS

## WET WELL SWITCHES SUPPORT BRACKET

DATE  
02/07/2025  
ISSUE  
ISSUED FOR BID  
AND CONSTRUCTION  
DETAIL NUMBER  
40 72 00-02



**NOTES:**

1. IN-LINE FLANGED DIAPHRAGM SEAL UNITS TO BE FACTORY ASSEMBLED.
2. MODIFY ORIENTATION OF INSTRUMENT WHERE INSTALLED ON VERTICAL PIPE.
3. 316 SST DIAPHRAGM SEAL AND LOWER HOUSING UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATION SECTION 40 73 00.



**CITY OF HAILEY WOODSIDE WATER  
RECLAMATION FACILITY  
HEADWORKS IMPROVEMENTS  
PRESSURE GAUGE WITH DIAPHRAGM SEAL**

DATE  
04/11/2025  
ISSUE  
ISSUE FOR REVIEW  
DETAIL NUMBER  
40 73 00-01