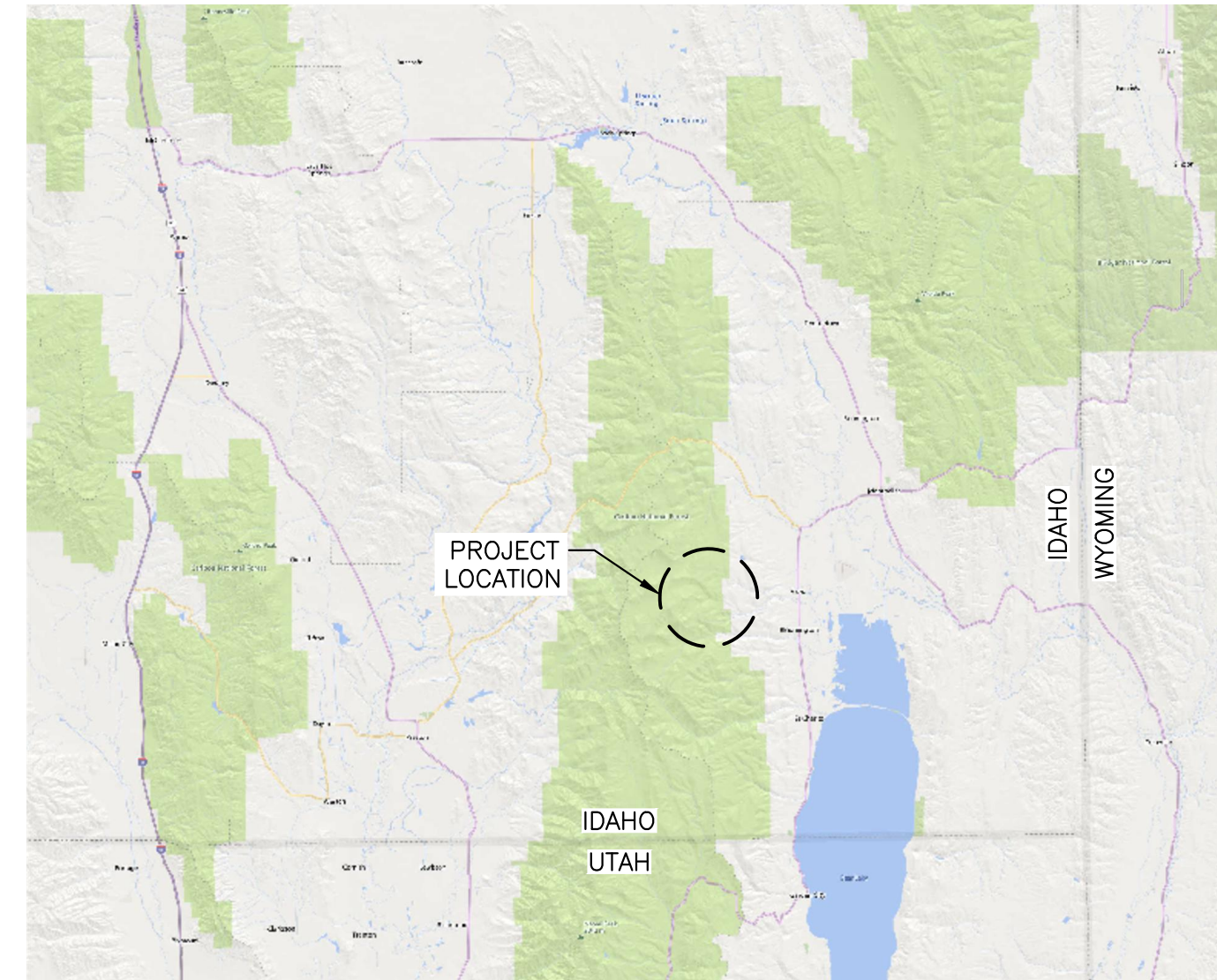


TROUT UNLIMITED

PARIS CREEK DIVERSION PROJECT

ISSUED FOR CONSTRUCTION



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS



PROJECT SITE MAP
SECTIONS 8 AND 9, TOWNSHIP 14S, RANGE 43E
BEAR LAKE COUNTY, IDAHO
LATITUDE: 42°13'05.33"N, LONGITUDE: 111°26'40.10"W



DRAWING INDEX	
DRAWING NO	DESCRIPTION
GENERAL	
G001	LOCATION MAP, VICINITY MAP, PROJECT LIMITS AND DRAWING INDEX
G002	STANDARD SYMBOLS AND ABBREVIATIONS
G003	EXISTING SITE PLAN AND SURVEY CONTROL
G004	HYDRAULIC PROFILE AND DESIGN CRITERIA FLOWS
G005	CONTROL POINTS AND PIPING SCHEDULE
EROSION AND SEDIMENT CONTROL	
EC001	STANDARD EROSION SEDIMENT CONTROL DETAILS
EC002	EROSION SEDIMENT CONTROL AND DEWATERING PLAN
DEMOLITION	
DO01	DEMOLITION PLAN AND PHOTOS
CIVIL	
GC001	GENERAL CIVIL NOTES AND STANDARD CIVIL DETAILS 1
GC002	STANDARD CIVIL DETAILS 2
GC003	STANDARD CIVIL DETAILS 3
GC004	EQUIPMENT SCHEDULES
C100	OVERALL SITE PLAN
C101	DIVERSION AND INTAKE STRUCTURE PLAN
C102	SECTIONS AND DETAILS 1
C103	SECTIONS AND DETAILS 2
C104	SECTIONS AND DETAILS 3
C110	ROCK WEIR PLANS AND DETAILS
C201	PIPELINE PLAN AND PROFILE
C300	FLOW SPLIT AND INTAKE PLAN
C301	FLOW SPLITTER BOX SECTIONS
STRUCTURAL	
GS001	GENERAL STRUCTURAL NOTES
GS002	STANDARD STRUCTURAL DETAILS
S100	DIVERSION STRUCTURE FLOOR PLAN
S101	DIVERSION STRUCTURE TOP PLAN
S102	DIVERSION STRUCTURE ENLARGED PLAN
S103	DIVERSION STRUCTURE SECTIONS
S104	DIVERSION STRUCTURE DETAILS 1
S105	DIVERSION STRUCTURE DETAILS 2
S115	DROP INLET STRUCTURE FLOOR AND TOP PLANS
S116	DROP INLET STRUCTURE SECTIONS AND DETAILS 1
S117	DROP INLET STRUCTURE SECTIONS AND DETAILS 2
S118	DROP INLET STRUCTURE SECTIONS AND DETAILS 3
S300	FLOW SPLITTER BOX FLOOR AND TOP PLANS
S301	FLOW SPLITTER BOX SECTIONS
S302	FLOW SPLITTER SECTIONS AND DETAILS



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
LOCATION MAP, VICINITY MAP, PROJECT LIMITS AND DRAWING INDEX

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



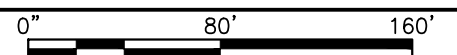
DRAWING
G001
SCALE: AS NOTED

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EXISTING SITE PLAN

SCALE: 1" = 80'



SHEET NOTES:

- TOPOGRAPHY WAS DEVELOPED FROM SITE SURVEY DATA MERGED WITH LIDAR POINTS.
- SITE SURVEY WAS CONDUCTED BY AA HUDSON ON MAY 11, 2022.
- SURVEY COORDINATES ARE PRESENTED IN THE FOLLOWING DATUMS:
 - NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
 - NORTH AMERICAN DATUM 1983 (NAD83)
 - IDAHO STATE PLANE EAST, US FOOT
- THIS PROJECT WAS AUTHORIZED BY ALL PARTIES UNDER THE MEMORANDUM OF UNDERSTANDING REGARDING PARIS CREEK PROJECT DECOMMISSIONING. PROJECT PARTIES ARE AS FOLLOWS:
 - PACIFICORP - "PARIS HYDRO OWNER"
 - TROUT UNLIMITED (TU) - "OWNER"
 - MATTSONS - "LAND OWNERS"
 - PARIS RELIEF CANAL COMPANY - "PARIS RELIEF"
 - UPPER SOUTH FIELD CANAL COMPANY - "SOUTHFIELD"
 - CITY OF PARIS - "CITY"

CONTROL POINTS				
POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
101	203450.905	860959.91	5975.202	SET REBAR W/ PLASTIC CAP
102	201694.506	851597.411	6176.3929	SET REBAR W/ PLASTIC CAP

NOTE:
POINT NO 101 IS LOCATED OUT OF THE PLAN VIEW TO THE NORTHEAST OF SITE.

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

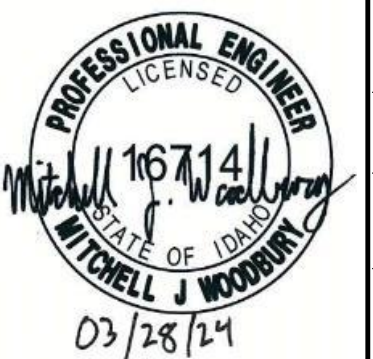
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

EXISTING SITE PLAN AND
SURVEY CONTROL

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24

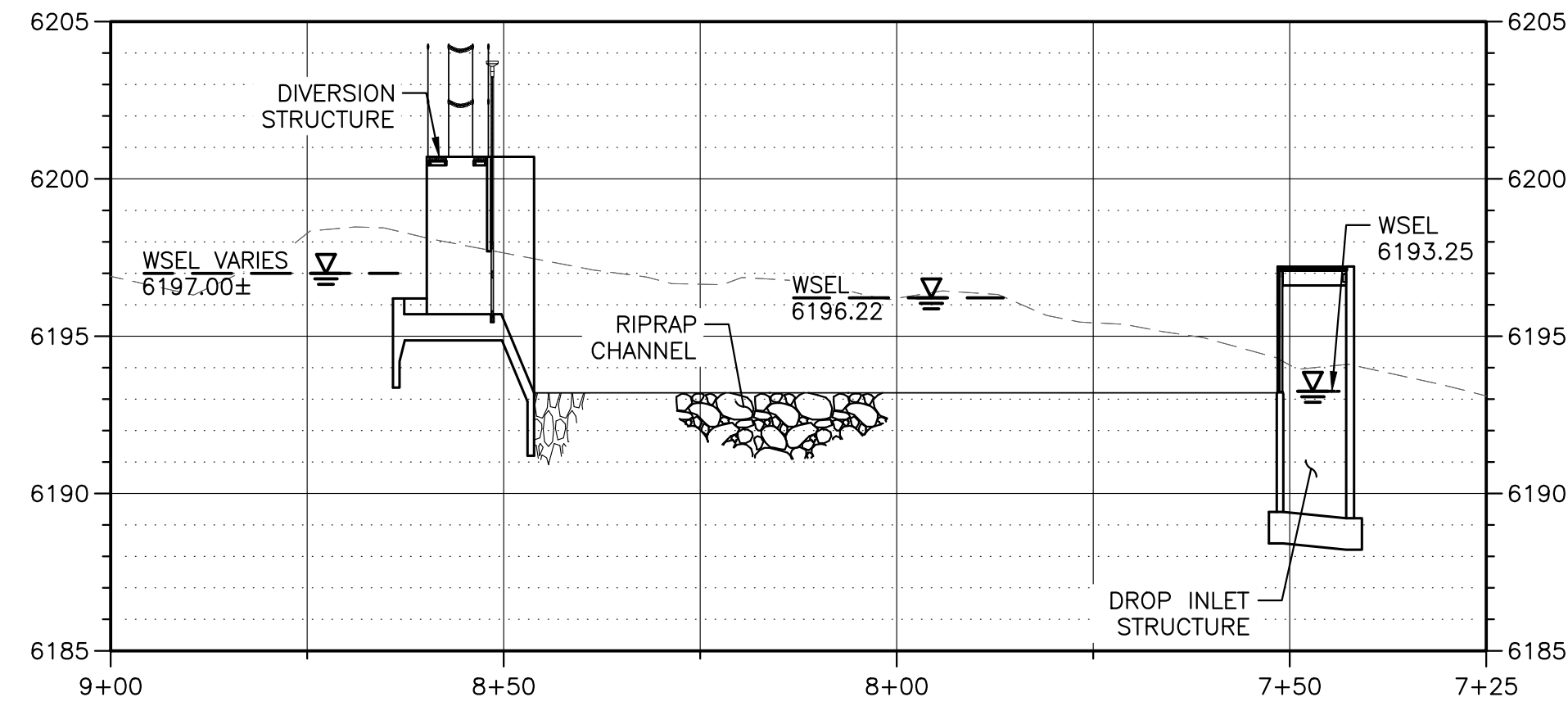


DRAWING
G003
SCALE: AS NOTED

SHEET NOTES:

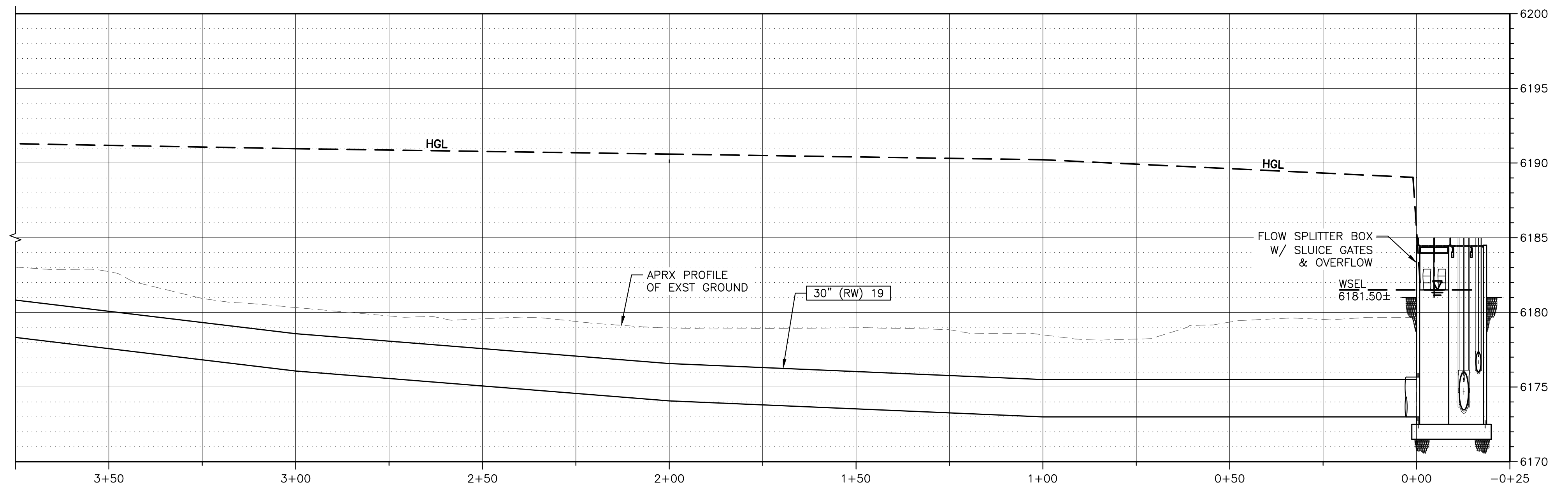
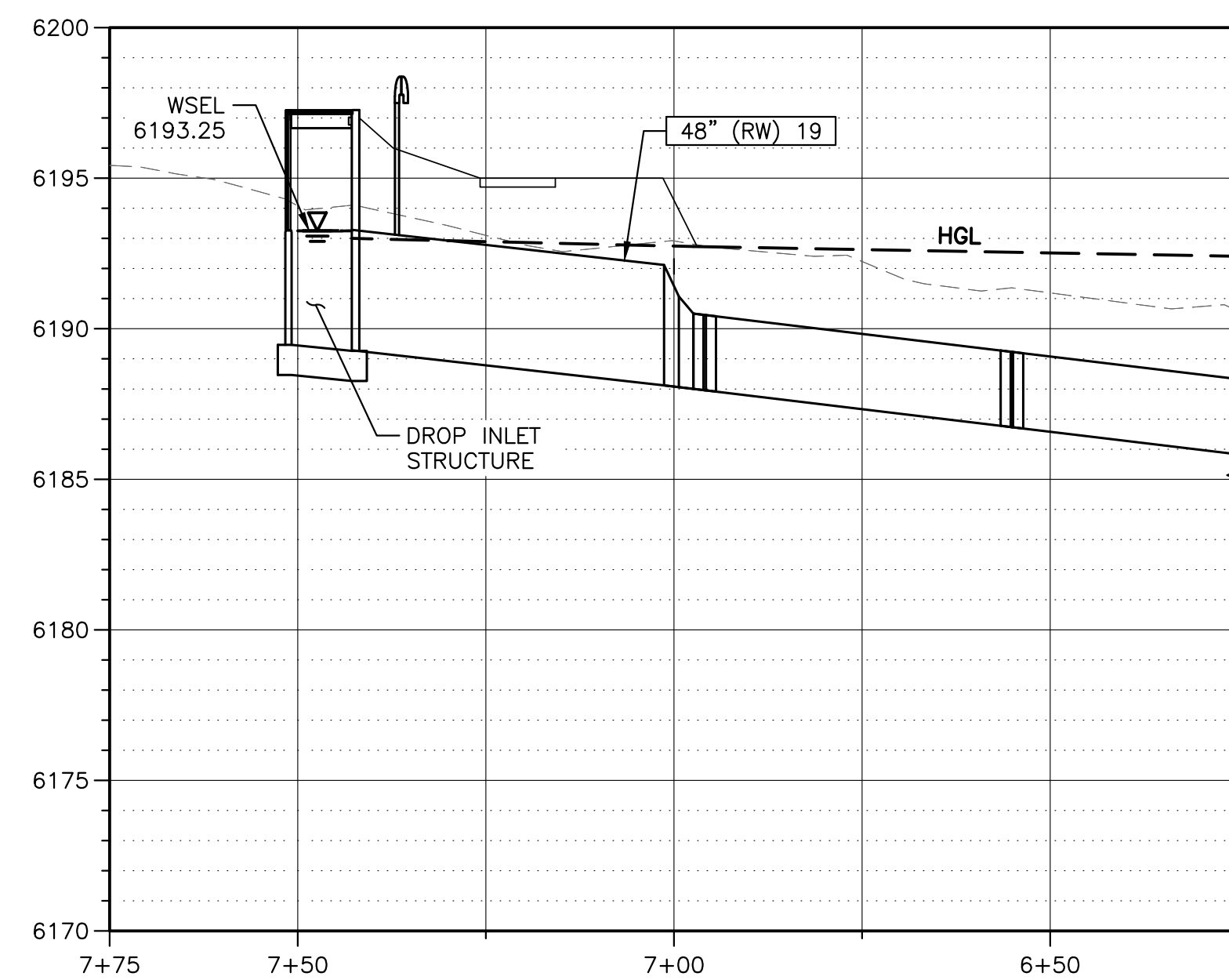
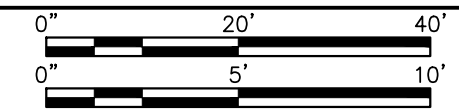
1. DUE TO LIMITED GAUGE DATA, MEAN MONTHLY FLOWS WERE ESTIMATED FROM POWERHOUSE DISCHARGE RECORDS AND 1-YEAR OF USGS GAUGE DATA FOR PARIS CREEK. THE MEAN MONTHLY FLOWS FOR THE IRRIGATION PERIOD ARE PRESENTED IN THE TABLE BELOW.
2. PEAK FLOW AND LOW-FLOW STATISTICS WERE ESTIMATED FROM USGS REGIONAL REGRESSION EQUATIONS (STREAMSTATS).
3. HYDRAULIC PROFILE WATER SURFACE ELEVATIONS ASSUME DIVERSION IS OPERATING AT FULL CAPACITY. ELEVATIONS WILL VARY WITH STREAM FLOWS AND DIVERSION RATES.

DESIGN FLOWS AND WATER RIGHTS		
PARIS CREEK	FLOW (CFS)	DESCRIPTION
MAY	65	BEGIN IRRIGATION PERIOD
JUNE	69.5	PEAK RUNOFF TYPICALLY OCCURS IN JUNE
JULY	30.7	
AUGUST	21.5	
SEPTEMBER	17.9	END IRRIGATION PERIOD
2-YEAR	260	BANK FULL CHANNEL DESIGN
50-YEAR	370	PEAK FLOOD FOR DESIGN
100-YEAR	739	INFORMATIONAL ONLY
WATER RIGHTS	FLOW (CFS)	DESCRIPTION
PARIS RELIEF (11-67)	16.00	
PARIS RELIEF (11-64)	13.64	PARIS RELIEF COMBINED WATER RIGHT IS 29.64 CFS.
SOUTH FIELD (11-69)	7.5	



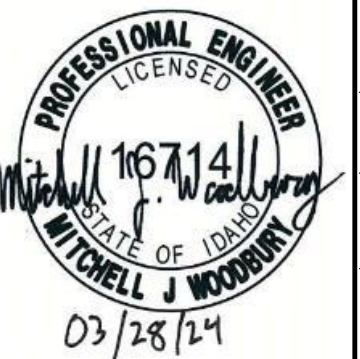
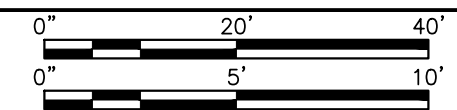
INTAKE HYDRAULIC PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'



PIPELINE HYDRAULIC PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'



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WARNING
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TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
HYDRAULIC PROFILE AND DESIGN CRITERIA FLOWS

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
G004
SCALE: AS NOTED

INTAKE AND FISH SCREEN STRUCTURE				
POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
103	201317.85	851053.23	6196.20	CENTERLINE OF INTAKE STRUCTURE SLAB AT FACE OF CENTER WALL; STA 8+72.54
104	201325.01	851064.33	6193.20	CENTERLINE OF INTAKE STRUCTURE AT SLOPE INVERT; STA 8+59.33
105	201383.38	851154.81	6189.45	CENTERLINE OF DROP INLET STRUCTURE SLAB AT OUTSIDE WALL; STA 7+51.66
106	201388.71	851163.08	6189.25	PIPE INVERT / CENTERLINE OF DROP INLET STRUCTURE SLAB; STA 7+41.82

ROCK WEIRS				
POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
110	201018.49	850651.03	6212.64	ROCK WEIR 1 THROAT INVERT AT CENTERLINE
111	201326.59	851043.85	6197.00	ROCK WEIR 2 THROAT INVERT AT CENTERLINE
112	201361.67	851057.95	6195.50	ROCK WEIR 3 THROAT INVERT AT CENTERLINE

FENCE				
POINT NO	NORTHING	EASTING	DESCRIPTION	
115	201347.56	851073.97	NW CORNER	
116	201403.36	851160.47	NE CORNER	
117	201369.51	851182.30	SE CORNER	
118	201291.54	851059.96	SW CORNER	

PIPELINE				
POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
106	201388.71	851163.08	6189.25	PIPE INVERT AT OUTSIDE FACE OF WALL
120	201414.05	851202.34	6187.70	22.5' HORIZONTAL BEND
121	201421.53	851241.64	6186.36	22.5' HORIZONTAL BEND
122	201783.52	851787.70	6173.00	PIPE INVERT AT OUTSIDE FACE OF FLOW SPLITTER BOX

FLOW SPLITTER BOX				
POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
125	201781.25	851788.53	6184.50	TOW AT SW CORNER
126	201788.30	851805.91	6184.50	TOW AT SE CORNER

FLUID ABBREVIATION	FUNCTION	ALLOWABLE PIPING MATERIAL GROUP NO. (SEE NOTE 1 AND 4)				FIELD TEST REQUIREMENTS (SEE NOTE 3 AND NOTE 4)		
	THIS LIST MAY INCLUDE FLUIDS NOT USED IN THIS PROJECT	EXPOSED PIPING (SEE NOTE 14)		BURIED PIPING (SEE NOTE 13)		MINIMUM TEST PRESSURE PSI	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 2)
(* SEE NOTE 5)	3" DIA AND SMALLER	4" DIA AND LARGER	3" DIA AND SMALLER	4" DIA AND LARGER				
BP	BYPASS	16	16	--	16	75	WATER	(A)
RW	RAW WATER	--	--	--	19	150	WATER	(A)
VT	VENT (SEE NOTE 18)	15,16	15,16	--	--	15 IN Hg	VACUUM	(A) (D) NOTE 18

PIPING MATERIAL SCHEDULE (SEE NOTE 1)			
GROUP NO.	PIPE MATERIAL	FITTINGS / JOINTS	LININGS AND COATINGS (SEE NOTE 13)
5	WELDED STEEL, AWWA C200, UNLINED.	WELDED STEEL, FABRICATED, AWWA C208, UNLINED.	NOT APPLICABLE
16	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT. ASTM D1785. (TYP SERVICE - INDOORS/COVERED)	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467. (SOLVENT & GLUE SHALL BE COMPATIBLE WITH FLUID SERVICE)	NOT APPLICABLE
19	POLYVINYL CHLORIDE PRESSURE PIPE AWWA C900 (FOR DIA'S 4"-12") OR AWWA C905 (FOR DIA'S 14"-24") WITH BELL AND SPIGOT JOINTS.	DUCTILE IRON FITTINGS, 150 PSI, FOR POLYVINYL CHLORIDE PIPE, AWWA C110 CEMENT MORTAR LINED, AWWA C104.	NOT APPLICABLE

TYPICAL PIPE DESIGNATION:

2" UW (24)

PIPE DIAMETER MATERIAL GROUP NUMBER (SEE NOTE 12)

FLUID ABBREVIATION

- NOTES:
- NOTE 1
ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE.
- NOTE 2
LEAKAGE ALLOWANCE IS AS FOLLOWS
A. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
B. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
C. PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE.
D. PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
E. PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OF MORE THAN 4 INCHES MERCURY COLUMN.
- NOTE 3
FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.
- NOTE 4
NO SUBSTITUTIONS U.N.O. IN THE SPECIFICATIONS.
- NOTE 5
NOT USED.
- NOTE 6
STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF PIPE.
- NOTE 7
INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODE.
- NOTE 8
NO APPARENT LEAKS UNDER NORMAL OPERATING CONDITIONS.
- NOTE 9
NOT USED.
- NOTE 10
PIPING MATERIALS SHALL BE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.
- NOTE 11
NOT USED.
- NOTE 12
CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS: —◆—
- NOTE 13
FOR FULL PIPE LINING AND COATING REQUIREMENTS, SEE SPECIFICATIONS.
- NOTE 14
NOT USED.
- NOTE 15
NOT USED.
- NOTE 16
NOT USED.
- NOTE 17
NOT USED.

REV	DATE	BY	DESCRIPTION
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0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

0 1/2 1

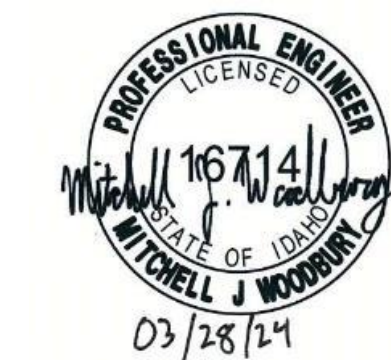
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

CONTROL POINTS AND PIPING SCHEDULE

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING

G005

SCALE: AS NOTED

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SHEET NOTES:

1. ALL TEMPORARY EROSION, SEDIMENT CONTROL, AND DEWATERING MEASURES SHOWN IN THIS PLAN SET ARE FOR CONTRACTORS INFORMATION ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING AN EROSION, SEDIMENT CONTROL, AND DEWATERING PLAN THAT MEETS ALL STATE, FEDERAL, AND LOCAL REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE TEMPORARY MEASURES FOR THE DURATION OF THE PROJECT.
4. ALL TEMPORARY MEASURES SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
5. ALL CONSTRUCTION EQUIPMENT SHALL BE CLEAN AND FREE OF DIRT, GREASE, AND DEBRIS UPON ARRIVAL TO THE SITE.
6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, SEDIMENTS, SEDIMENT-LADEN WATER, CHEMICALS, OR ANY OTHER TOXIC OR DELETERIOUS MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO ADJACENT RIVERS, STREAMS, OR WETLANDS.
7. ALL DISCHARGE FROM DEWATERING ACTIVITIES SHALL BE RELEASED IN SUCH A MANNER THAT PREVENTS EROSION OR DAMAGE AT THE POINT OF DISCHARGE. DISCHARGE RETURNING TO NATURAL WATERWAYS SHALL ADHERE TO ALL APPLICABLE WATER QUALITY STANDARDS.
8. ALL TEMPORARY EROSION, SEDIMENT CONTROL, AND DEWATERING MATERIALS SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION FOLLOWING COMPLETION OF PERMANENT SITE STABILIZATION.
9. ALL STAGING, CLEARING AND GRADING AREAS SHALL BE ISOLATED FROM NATURAL WATERWAYS AND WETLANDS USING SILT FENCE AND/OR STRAW WATTLE BARRIERS.
10. ALL SOIL AND MATERIAL STOCKPILES SHALL BE PLACED IN A STABLE LOCATION AND PLASTIC SHEETING SHALL BE USED TO TEMPORARILY COVER SOIL AND/OR MATERIAL DURING CONSTRUCTION IF INACTIVE FOR A PERIOD OF MORE THAN 7 DAYS. SEE STANDARD DETAIL EC106.

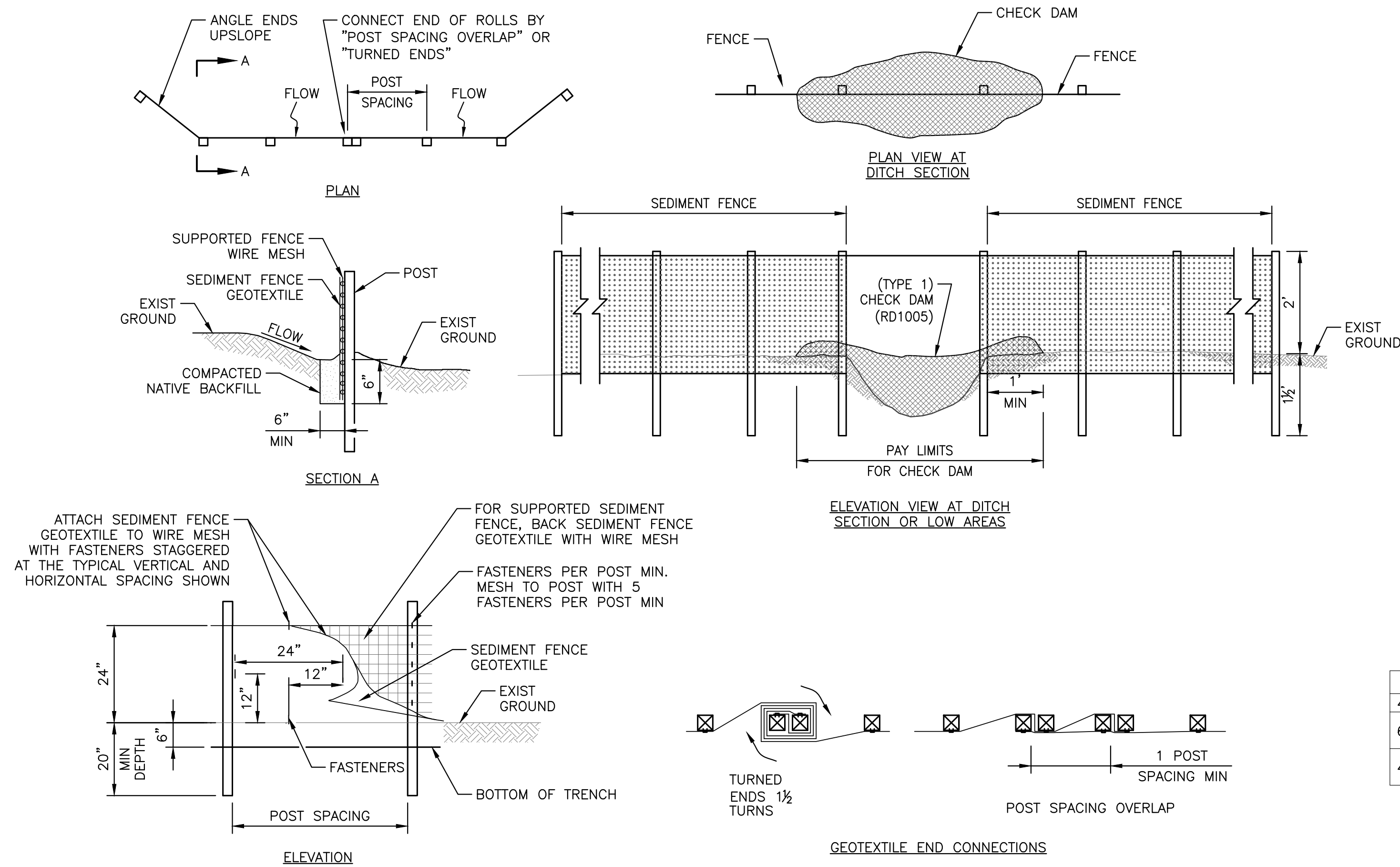


TABLE 1
FENCE SPACING FOR GENERAL APPLICATION

INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

GRADE	MAXIMUM SPACING ON GRADE
GRADE ≤ 0%	300'
10% ≤ GRADE < 15%	150'
15% ≤ GRADE < 20%	100'
20% ≤ GRADE < 30%	50'
30% ≤ GRADE	25'

TABLE 2
POST SPACING

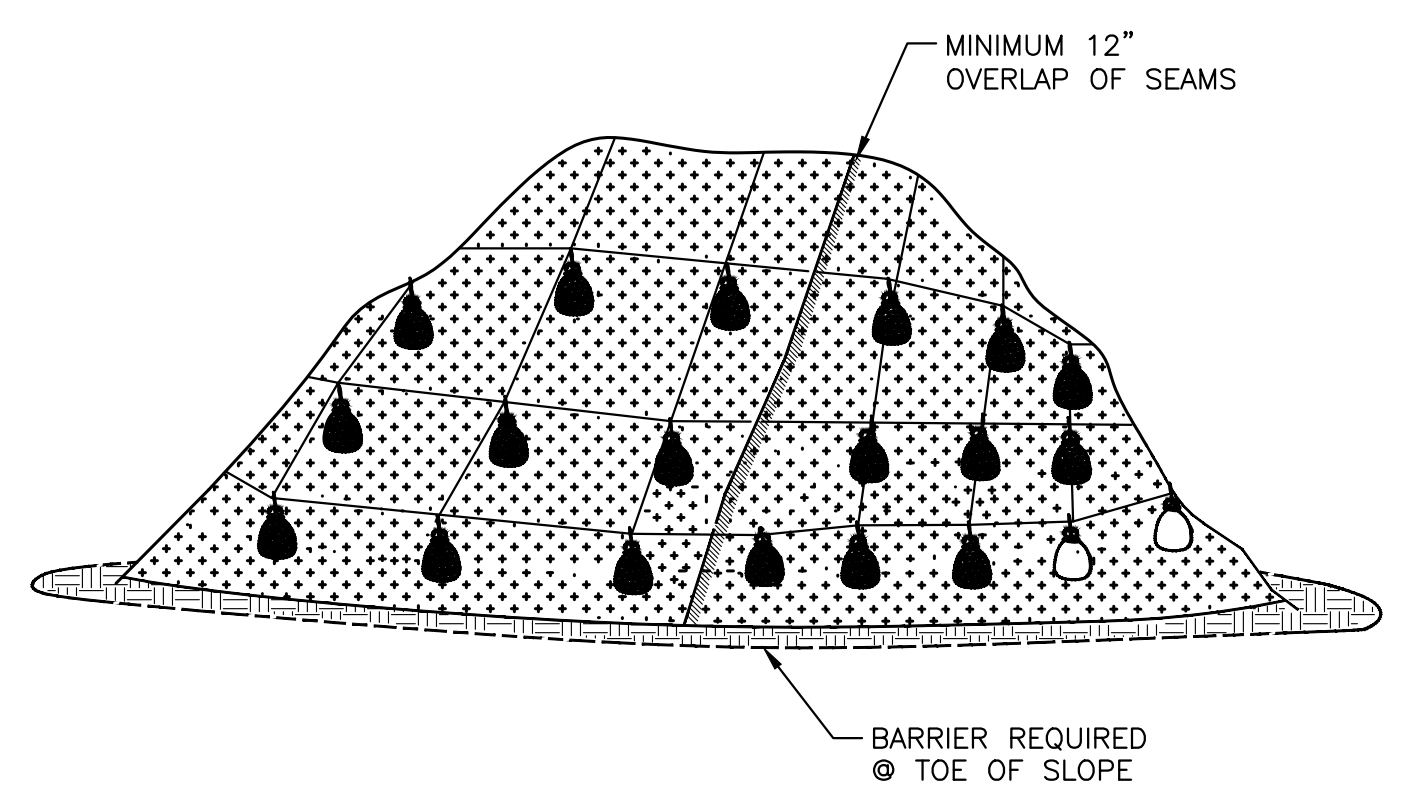
4'	SUPPORTED SEDIMENT FENCE
6'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * LESS THAN 50%
4'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * MORE THAN 50%

* GEOTEXTILE GRAB ELONGATION VALUE AS DOCUMENTED BY "LEVEL B" MFR'S DOCUMENTATION (SEE STANDARD SPECIFICATIONS).

SILT FENCE DETAIL

SCALE: NTS

EC101

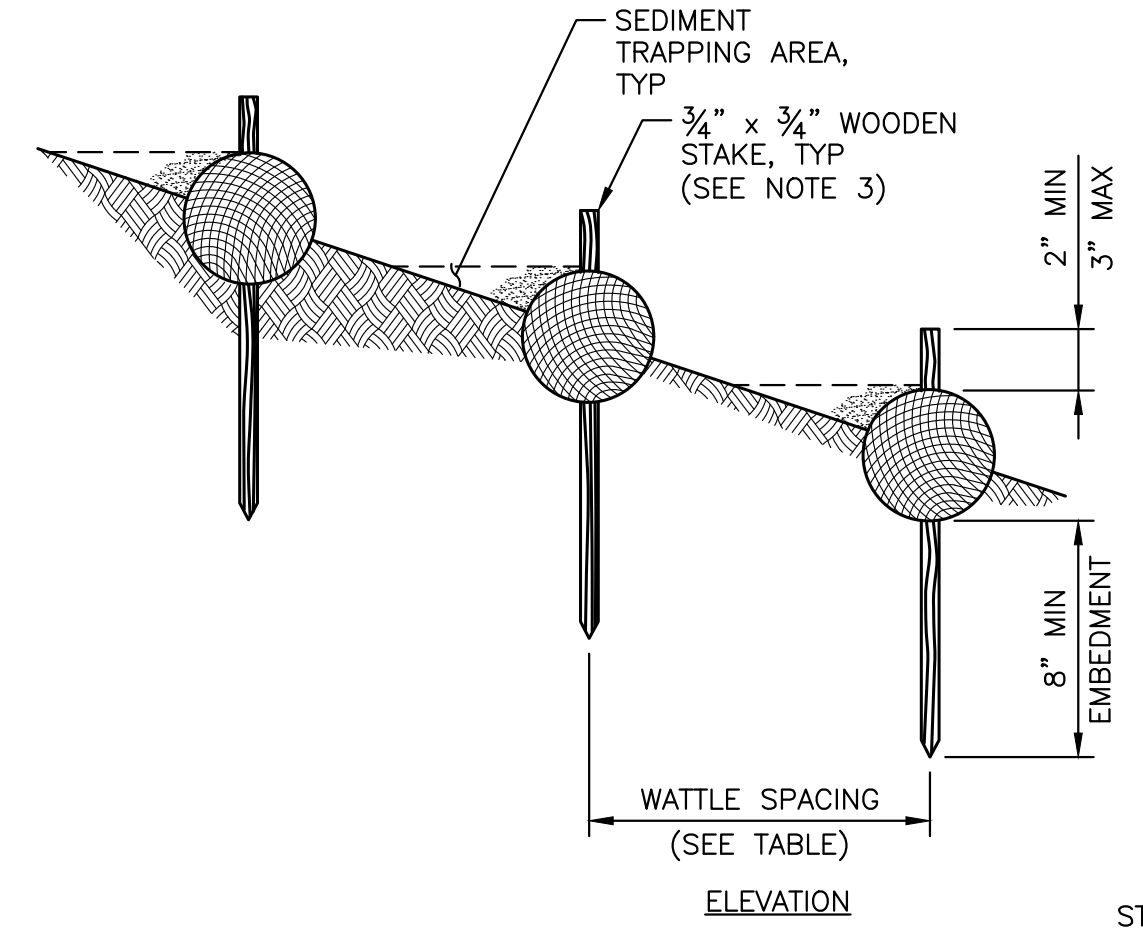


- NOTES:**
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
 2. BARRIER REQUIRED @ TOE OF STOCK PILE.
 3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

PLASTIC SHEETING

SCALE: NTS

EC106



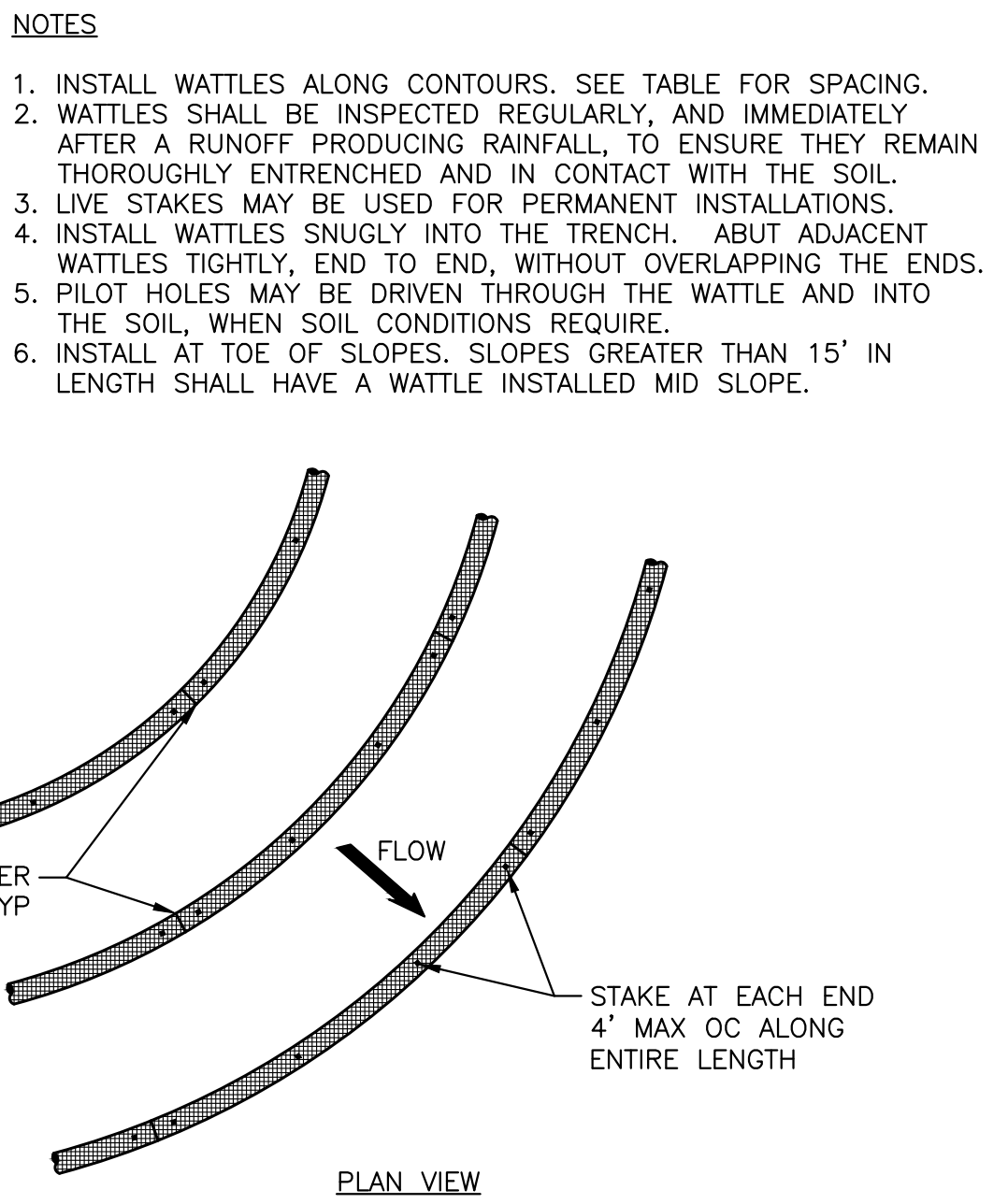
WATTLE SPACING TABLE

SLOPE	MAXIMUM SPACING
1:1	10 FEET
2:1	20 FEET
3:1	30 FEET
4:1	40 FEET
>4:1	80 FEET

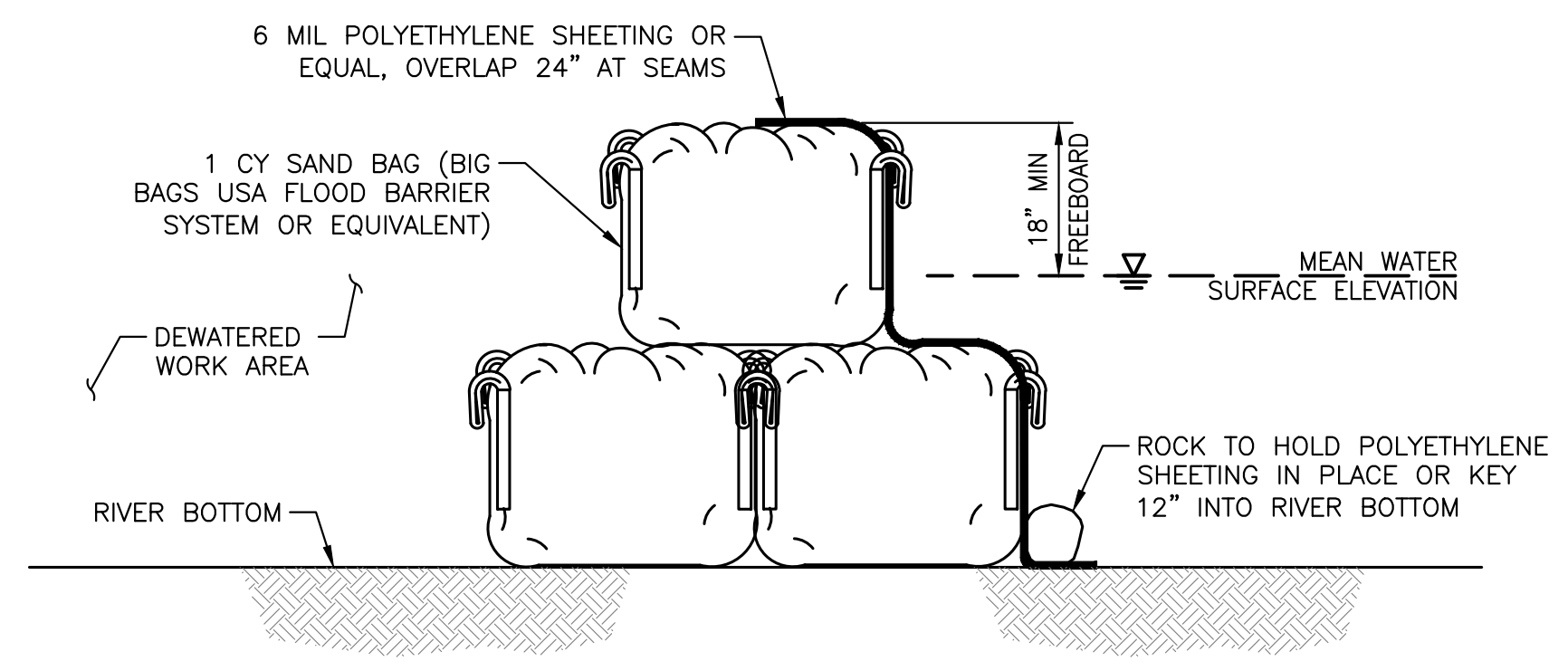
WATTLE

SCALE: NTS

EC107



- NOTES**
1. INSTALL WATTLES ALONG CONTOURS. SEE TABLE FOR SPACING.
 2. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
 3. LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
 4. INSTALL WATTLES SNUGLY INTO THE TRENCH. ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
 5. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLE AND INTO THE SOIL, WHEN SOIL CONDITIONS REQUIRE.
 6. INSTALL AT TOE OF SLOPES. SLOPES GREATER THAN 15' IN LENGTH SHALL HAVE A WATTLE INSTALLED MID SLOPE.

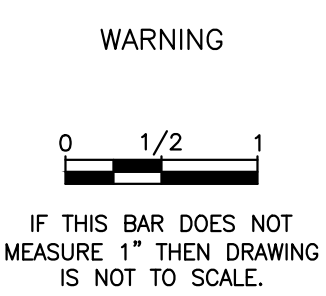


- NOTES:**
1. PROVIDE ADDITIONAL SAND BAG TIER AS NECESSARY TO ACCOMMODATE DEEPER WATER DEPTHS UP TO A MAXIMUM OF 3 TIERS TOTAL.

TEMPORARY COFFERDAM

SCALE: NTS

EC110



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
STANDARD EROSION SEDIMENT CONTROL DETAILS

DESIGNED J. WOODBURY
DRAWN J. LAHMEN
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
EC001
SCALE: AS NOTED

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
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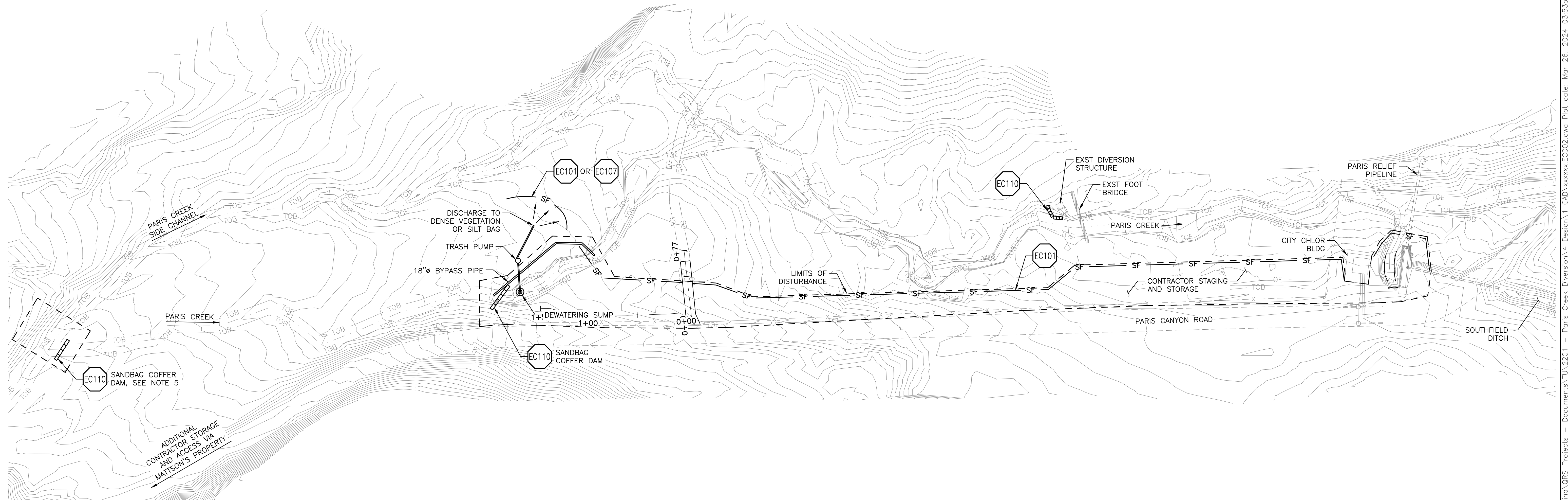
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LEGEND:

- SF — SILT FENCE
- - - - - LIMITS OF DISTURBANCE

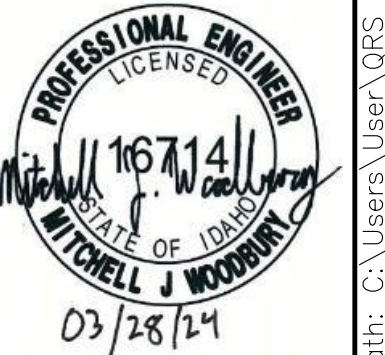
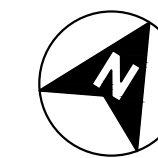
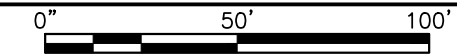
DEWATERING NOTES:

1. DEWATERING PLAN SHOWN IS FOR CONTRACTOR'S INFORMATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND IMPLEMENTATION OF THE DEWATERING PLAN, SEE SPECIFICATIONS 31 23 19.
2. DISCHARGE FROM ANY DEWATERING MEASURES REQUIRED FOR COMPLETION OF THE WORK SHALL NOT RESULT IN EROSION OF THE PROPERTY OR CAUSE INCREASE IN TURBIDITY OF THE STREAM.
3. CONTRACTOR MAY DISCHARGE TO DENSELY VEGETATED AREAS OR NATURAL DEPRESSIONS WHERE WATER MAY INFILTRATE INTO THE GROUND.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ADDITIONAL MEASURES SUCH AS SILT BAGS, SILT FENCING, OR VISQUEEN SHEETING IN ORDER TO PREVENT EROSION AT THE POINT OF DISCHARGE OR INCREASED TURBIDITY IN THE STREAM.
5. INSTALL TEMPORARY COFFERDAM TO PUSH WATER INTO EXIST SIDE CHANNEL DURING CONSTRUCTION OF THE INTAKE STRUCTURE. UPON COMPLETION OF DIVERSION STRUCTURE WORK, COFFERDAM SHALL BE RELOCATED TO DIRECT FLOW TO THE MAIN CHANNEL FOR INSTALLATION OF THE UPPER ROCK VANE.
6. ADDITIONAL CONTRACTOR STAGING AND ACCESS TO UPPER ROCK VANE AVAILABLE ON MATTSON'S PROPERTY WEST OF PARIS CANYON ROAD CROSSING OF PARIS CREEK (LOCATED OUT OF VIEW)



EROSION, SEDIMENT CONTROL, AND DEWATERING PLAN

SCALE: 1" = 50'



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

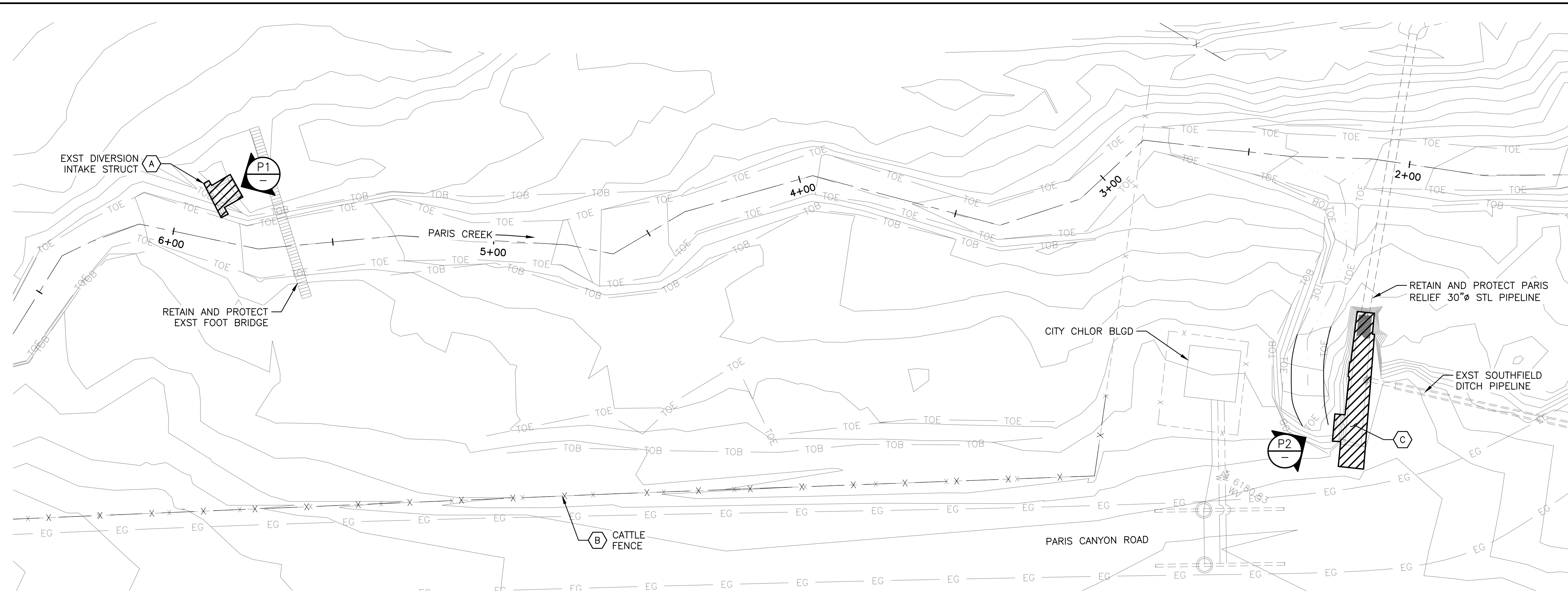


TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 EROSION SEDIMENT CONTROL AND DEWATERING PLAN

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24



DRAWING
EC002
 SCALE: AS NOTED



- SHEET NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXST STRUCTURES TO BE DEMOLISHED.
 2. DEMOLITION OF PARIS HYDRO TAILRACE STRUCTURE SHALL ONLY OCCUR WITH PACIFICORP REPRESENTATIVE APPROVAL. HYDROPOWER FACILITY MAY REMAIN IN OPERATION THROUGH 2023.
 3. UNLESS OTHERWISE NOTED, ALL DEMOLISHED MATERIAL SHALL BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED WASTE FACILITY.

- SHEET KEY NOTES:**
- A EXST DIVERSION STRUCTURE TO BE DEMOLISHED IN PLACE. CONTRACTOR SHALL RUBBLIZE CONC AND BURY IN EMBANKMENT FILL.
 - B DEMO ~820 FEET OF EXST CATTLE FENCE ALONG PIPELINE RIGHT-OF-WAY.
 - C SEE SHEET C100 CONTRACT NOTES. DEMO EXST CONC TAILRACE STRUCTURE, GRATING AND GATES. RETAIN AND PROTECT EXST PARIS RELIEF 30"Ø STL PIPELINE.

LEGEND:
 DEMOLITION

DEMO PLAN
 SCALE: 1" = 20'

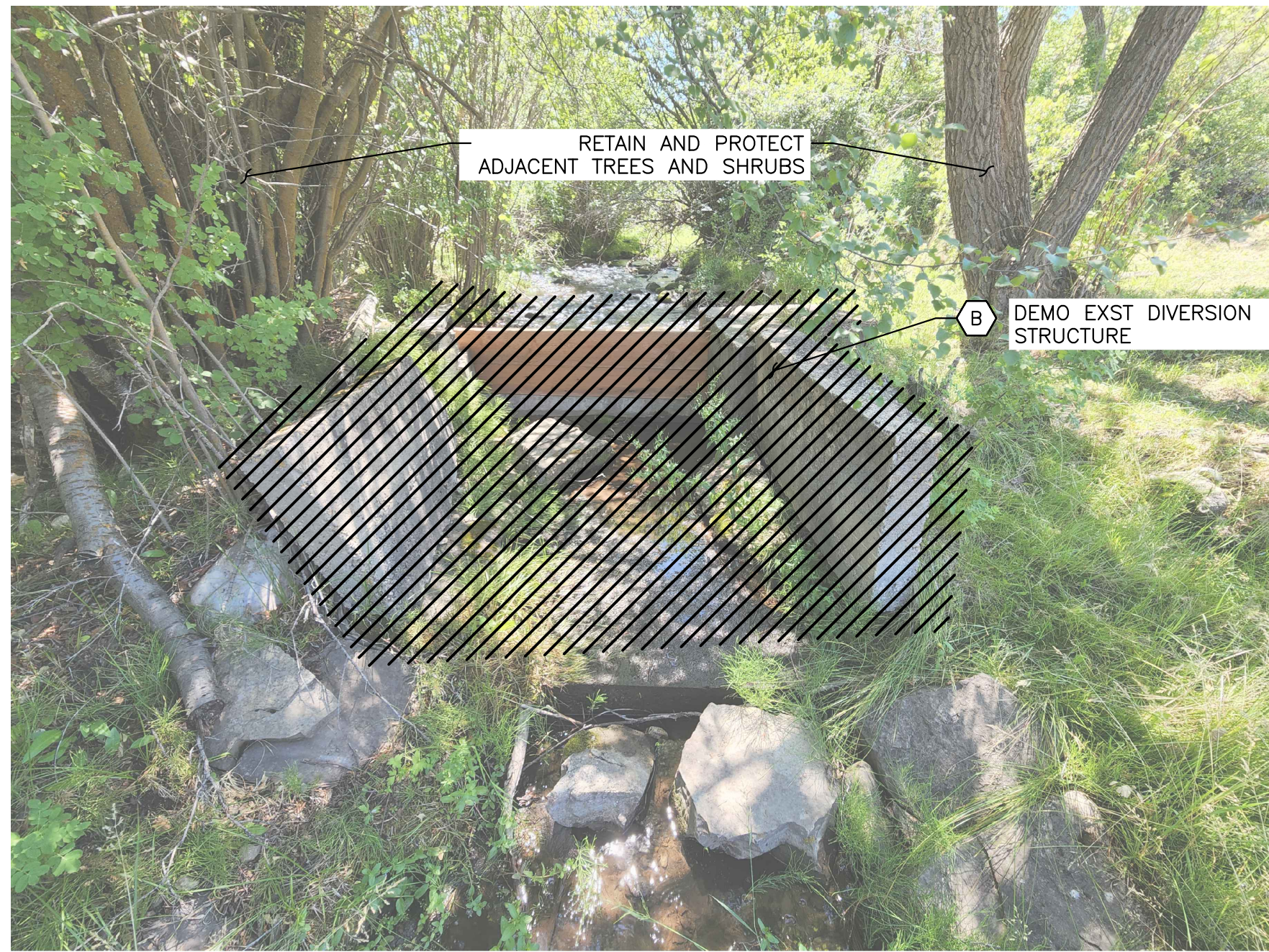


PHOTO - EXST DIVERSION STRUCTURE
 SCALE: NTS

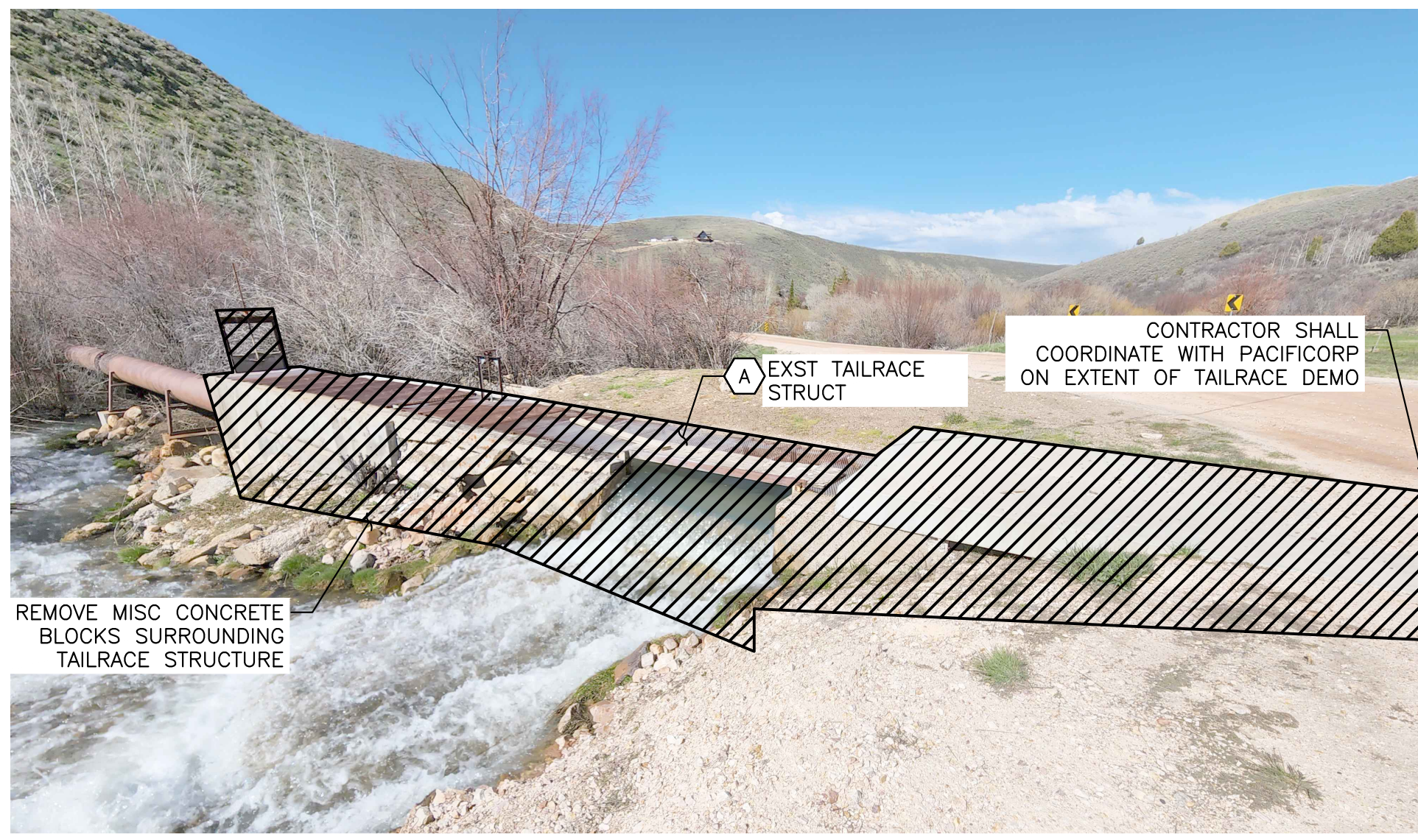


PHOTO - EXST TAILRACE STRUCTURE
 SCALE: NTS

PROFESSIONAL ENGINEER
 LICENSED
 16714
 MITCHELL J. WOODBURY
 STATE OF IDAHO
 03/28/24

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
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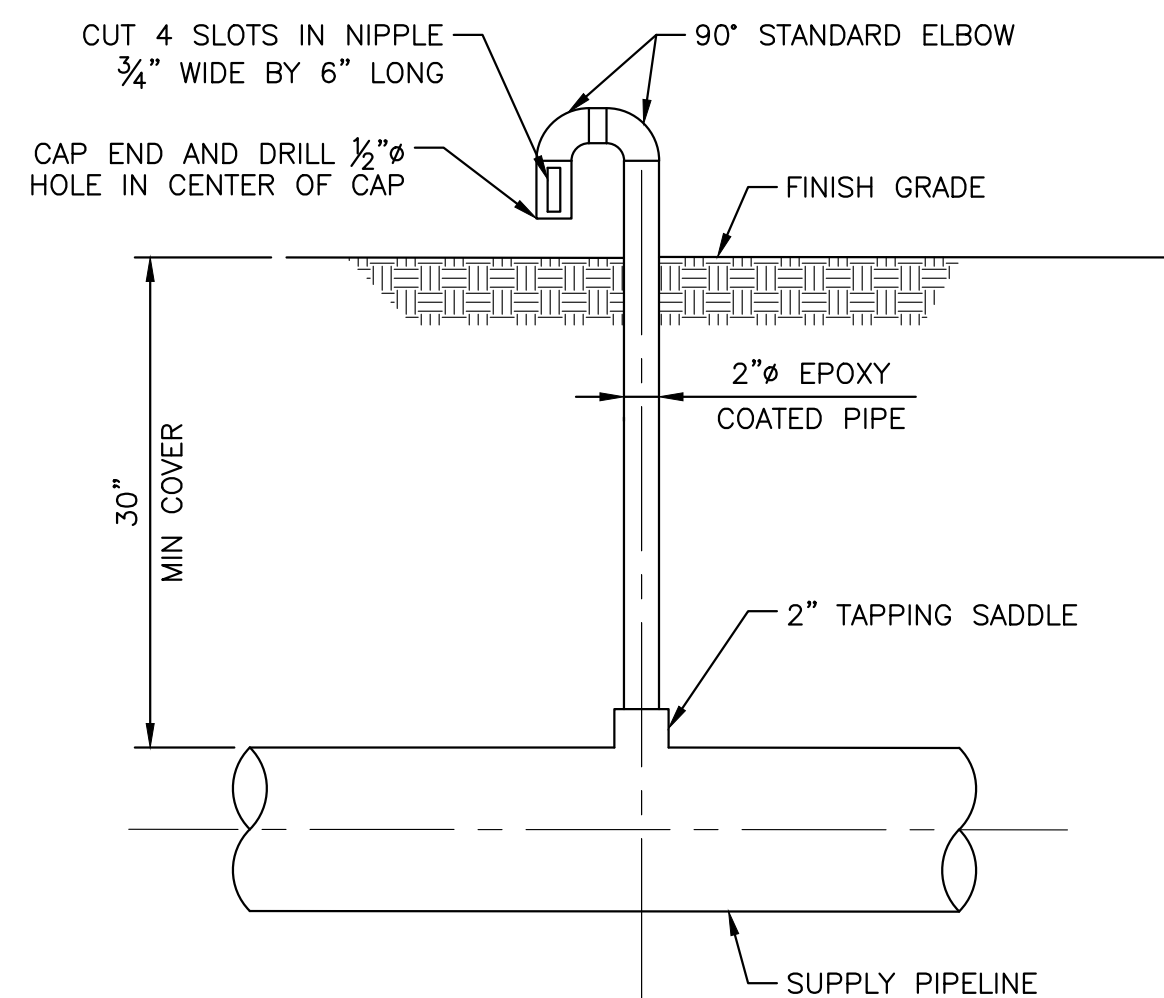
TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DEMOLITION PLAN AND PHOTOS

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24



DRAWING
D001
 SCALE: AS NOTED

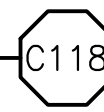
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NOTE:
1. COVER SLOTS AND HOLES WITH 10 MESH BRASS OR STAINLESS SCREEN.

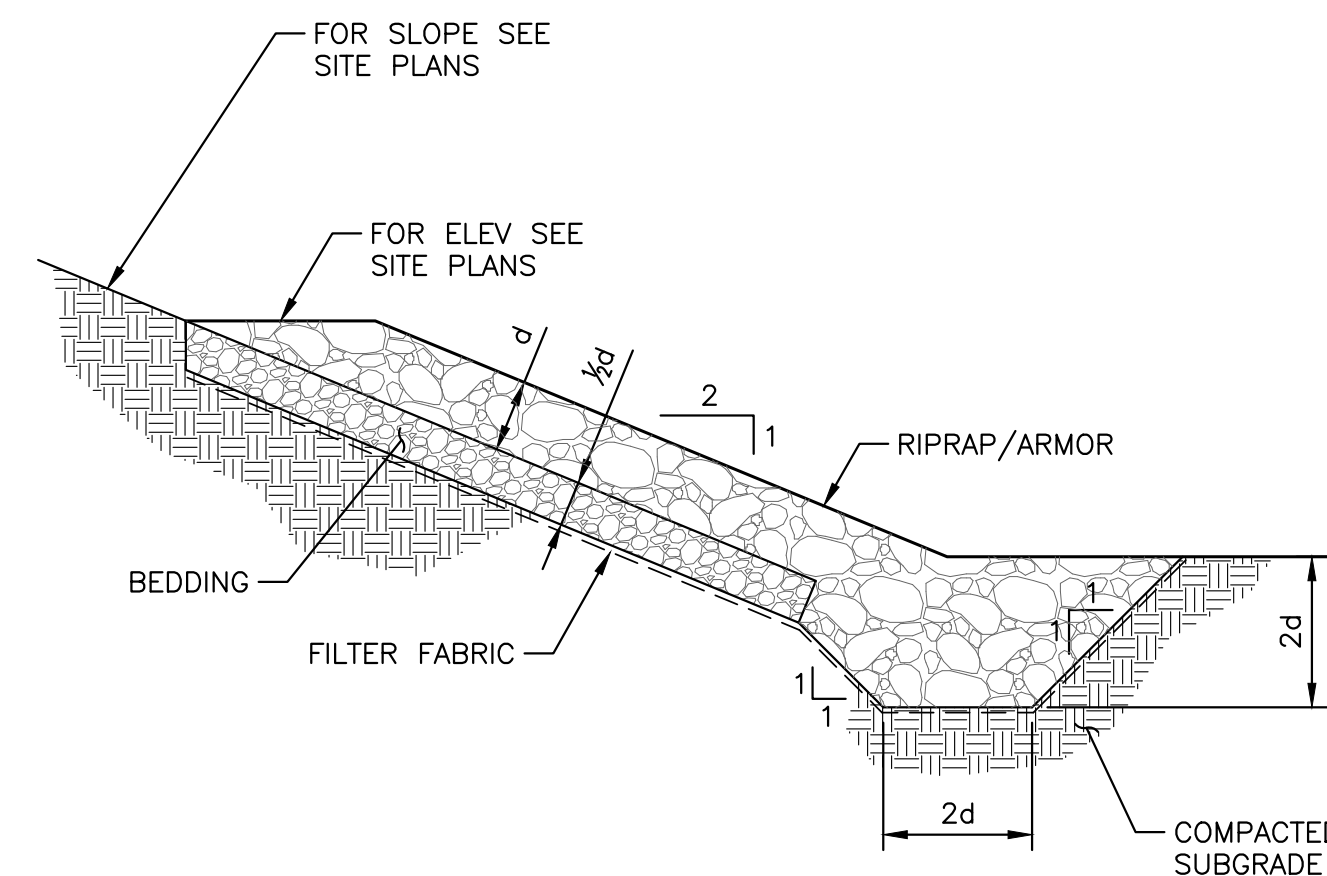
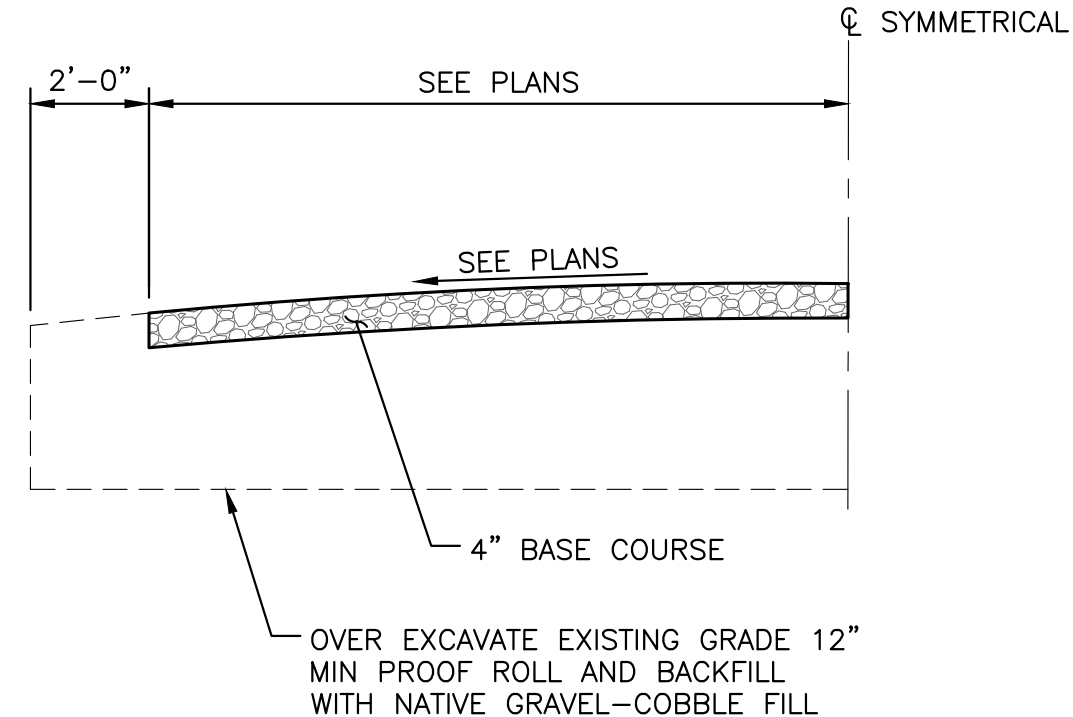
PIPE AIR VENT

SCALE: NTS



GRAVEL ROAD SECTION

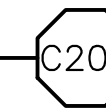
SCALE: NTS



NOTES:
1. USE LARGE DIAMETER BOULDERS ON-SITE (d = 12"-24"±) FOR RIPRAP ARMOR.
2. SLOPE SHALL BE 2H:1V MAX OR AS NOTED PER PLANS.

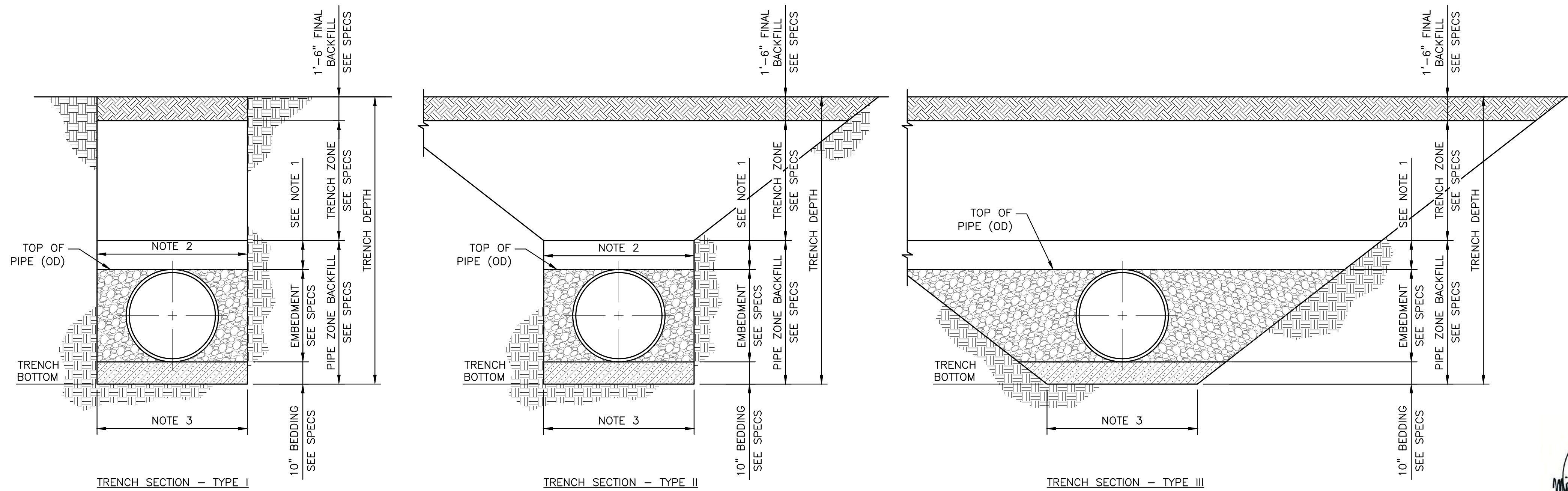
RIP-RAP & ARMOR PROTECTION

SCALE: NTS



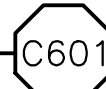
- A. FLEXIBLE PIPE REFERS TO ALL STEEL, DUCTILE-IRON, AND PLASTIC PIPES.
- B. TYPICAL TRENCH SECTIONS (I, II AND III) ARE TO BE USED ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. IF BOULDERS OR LARGE OBSTRUCTIONS ARE ENCOUNTERED, TRENCH SECTIONS MAY BE DEEPER OR WIDER THAN SHOWN. THE ENGINEER SHALL BE ADVISED SHOULD THIS OCCUR.
- C. THE NEED FOR PROTECTIVE SYSTEMS AND EXCAVATION SLOPES SHALL BE DETERMINED CONSIDERING APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, AND GEOTECHNICAL CONSULTANTS' RECOMMENDATIONS.
- D. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.
- E. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.
- F. UNSUPPORTED VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, UNLESS SUPPORTING DOCUMENTATION IS SUBMITTED, ACCORDING TO AFOREMENTIONED SAFETY STANDARDS.
- G. TRENCH SECTIONS OTHER THAN THE TYPICAL SECTIONS SHOWN MAY BE UTILIZED PROVIDED THEY COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS. DOCUMENTATION SUPPORTING THIS COMPLIANCE AND PIPE DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.
- H. IF OVER-EXCAVATION DUE TO POOR FOUNDATION MATERIAL IS ORDERED BY THE ENGINEER, THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTION OF THE SPECIFICATIONS ARTICLE ENTITLED, "FILL AND BACKFILL MATERIAL REQUIREMENTS."
- I. IF DURING CONSTRUCTION, THE WATER TABLE IS DISCOVERED TO BE ABOVE THE TRENCH BOTTOM, THE ENGINEER SHALL BE NOTIFIED, AND APPROPRIATE DEWATERING SHALL BE IMPLEMENTED TO LOWER THE WATER LEVEL BELOW THE TRENCH BOTTOM. THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTIONS OF THE SPECIFICATIONS, OR AS ORDERED BY THE ENGINEER.
- J. INSTALL PIPE PER MANUFACTURER INSTRUCTIONS. PIPE BEDDING AND PIPE ZONE BACKFILL MATERIAL SHALL CONSIST OF 3/4" MINUS ROAD MIX OR SIM. GRADATION SHALL HAVE A SAND EQUIVALENT VALUE GREATER THAN 75. OPEN GRADED GRAVELS OR ROCK CHIPS SHALL NOT BE USED.

NOTES:
1. 6" MIN FOR PIPE DIAMETER < 24"
12" MIN FOR PIPE DIAMETER > 24"
2. MAX TRENCH WIDTH @ TOP OF PIPE:
O.D. + 36" FOR, 18" & LARGER PIPE O.D.
O.D. + 24" FOR LESS THAN 18" PIPE O.D.
3. MIN TRENCH BOTTOM WIDTH =
O.D. + 24" FOR MECHANICAL COMPACTION

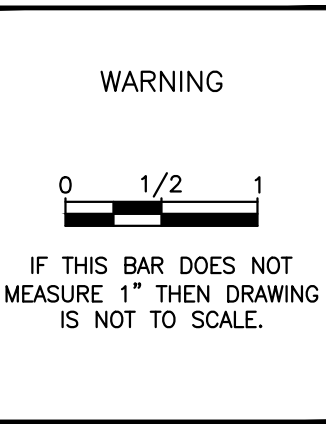


TRENCH SECTION FLEXIBLE PIPE

SCALE: NTS



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
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0	05/11/23	MJW	ISSUED FOR CONSTRUCTION



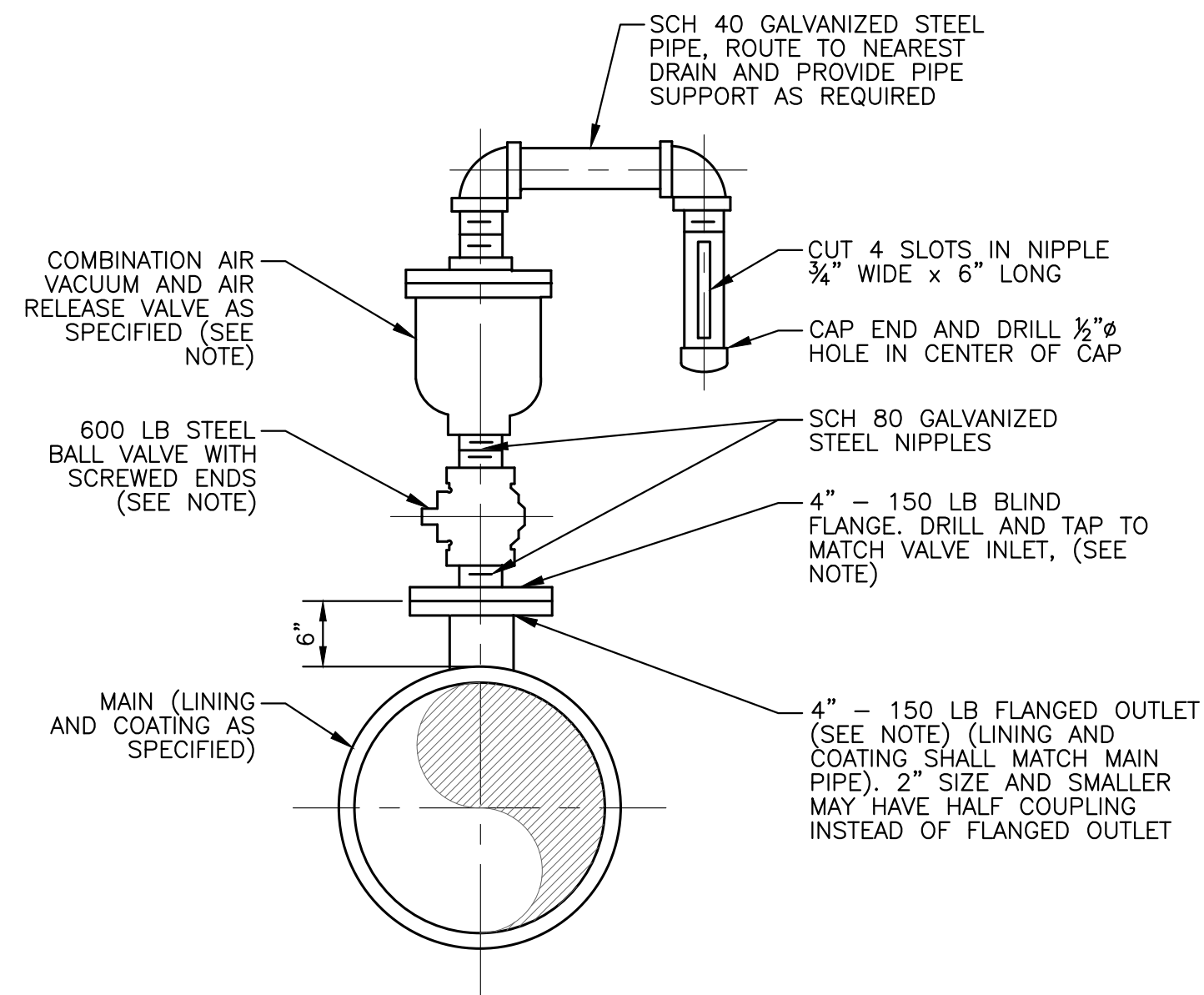
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
GENERAL CIVIL NOTES AND STANDARD CIVIL DETAILS 1

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
GC001
SCALE: AS NOTED

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NOTE:
FOR PIPING SYSTEM WITH SERVICE PRESSURE CLASS GREATER THAN 150 PSI ALL COMPONENTS FURNISHED SHALL BE SUITABLE FOR THE HIGHER PRESSURE

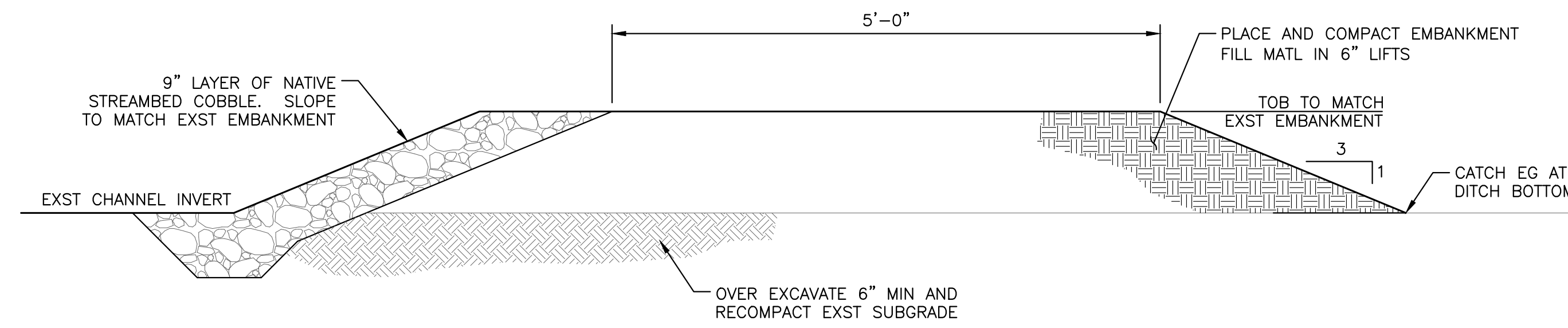
AIR-VACUUM AND AIR-RELEASE VALVE ASSEMBLY - 3" AND SMALLER

SCALE: NTS

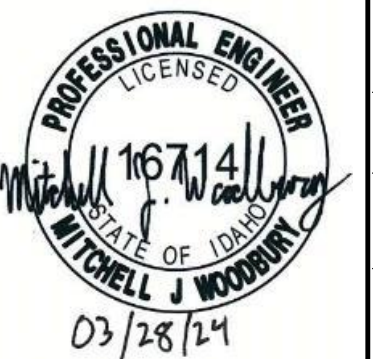
C804

BERM

SCALE: NTS



C900



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



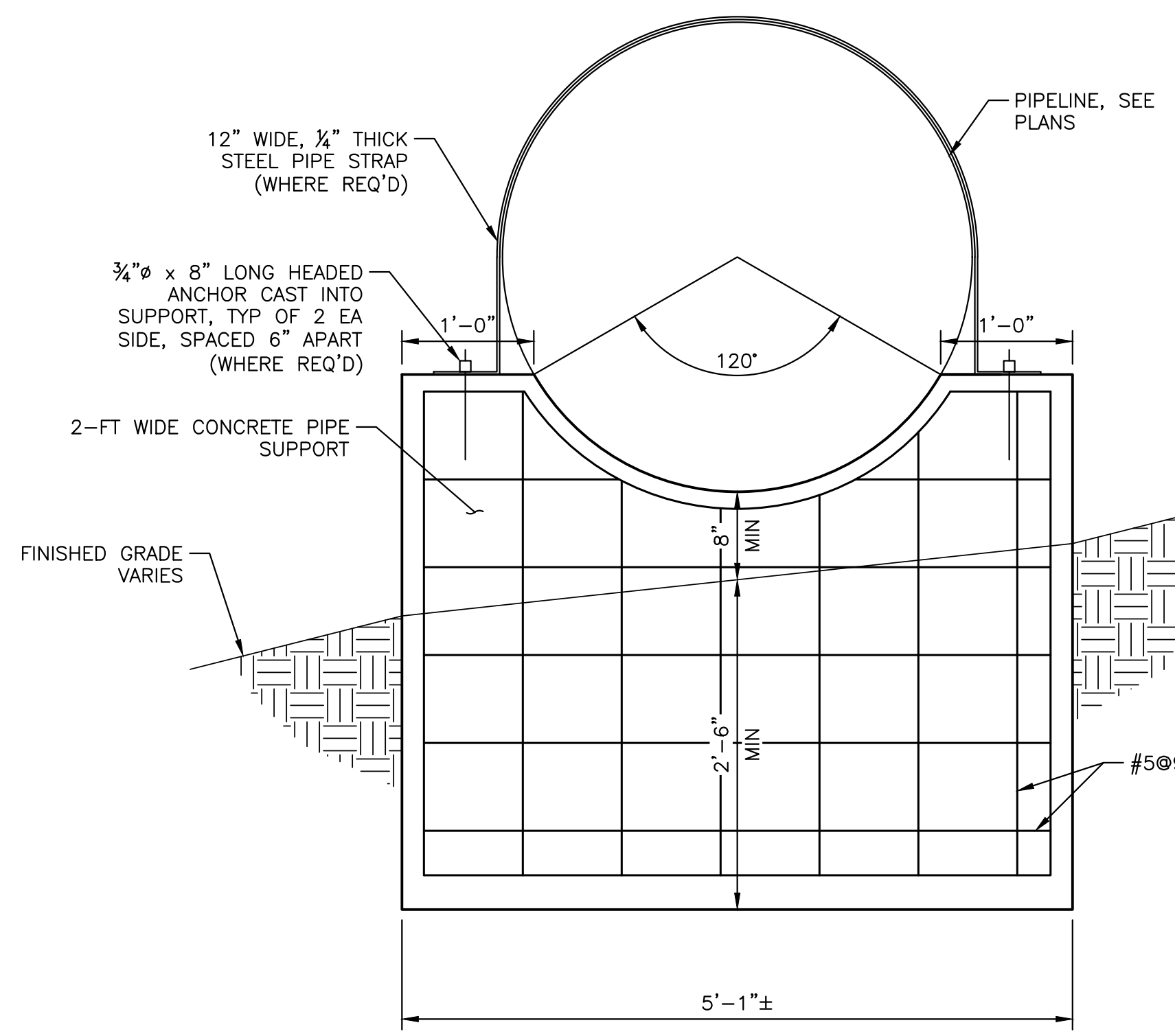
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
STANDARD CIVIL DETAILS 2

DESIGNED J. WOODBURY
DRAWN J. LAHMEN
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
G C 0 0 2
SCALE: AS NOTED

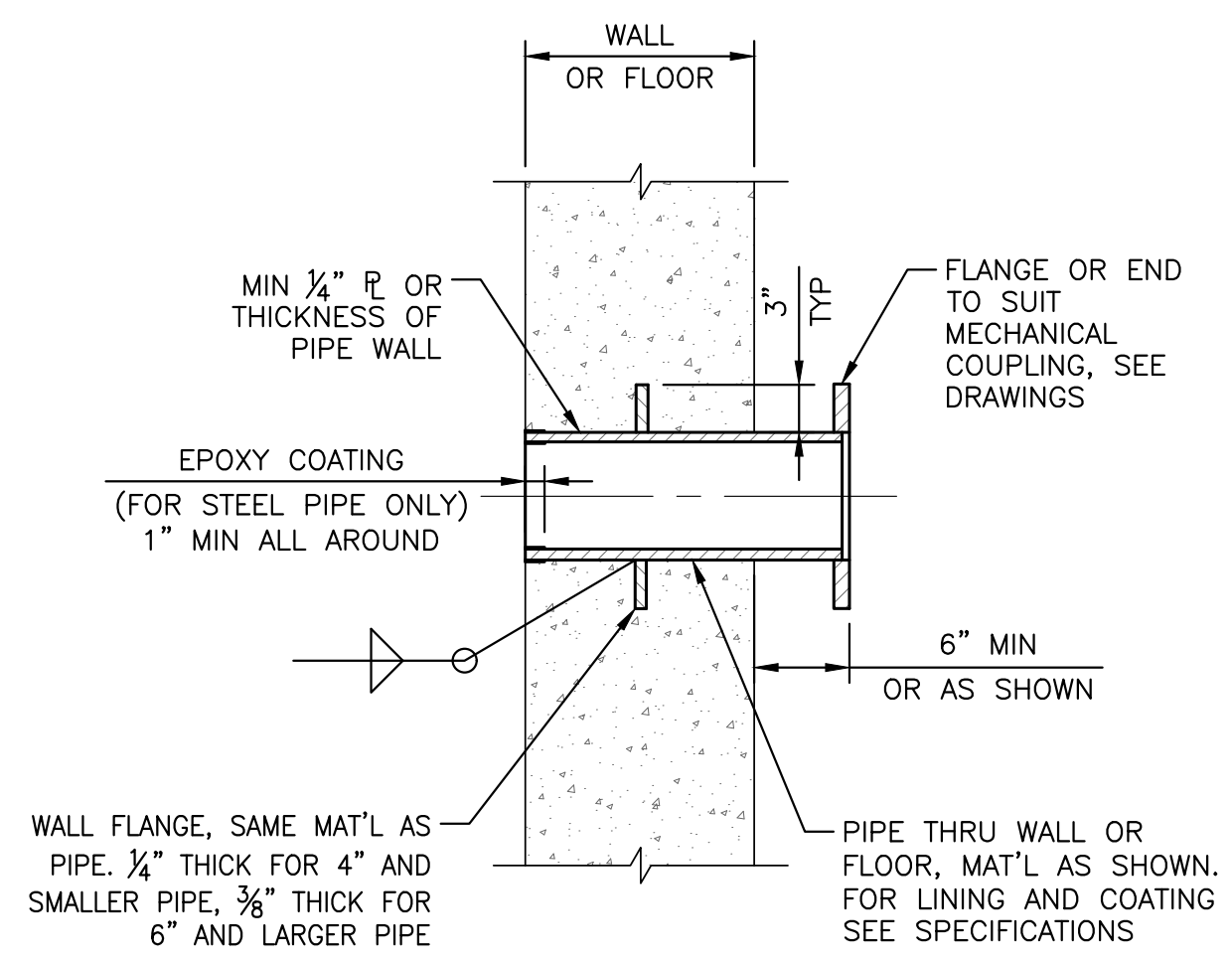
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- NOTES:**
1. PROVIDE 1/4" THICK, FULL WIDTH, UHMW SHEET UNDER PIPE, GLUED TO CONCRETE SUPPORT. SUBMIT SELECTED ADHESIVE AND UHMW MATERIAL SPECIFICATIONS FOR REVIEW AND APPROVAL. PROVIDE UHMW BETWEEN STRAP AND PIPE WHERE STRAPS ARE REQUIRED.
 2. STRAPS ARE REQUIRED ON PIPE SUPPORTS LOCATED ON EACH SIDE OF EXPANSION JOINT.
 3. WHERE PIPE STRAPS REQUIRED, COAT TO MATCH PIPELINE.
 4. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 20'-FT.
 5. CONCRETE PIPE SUPPORT SHALL EXTEND 2'-FT MIN BELOW FROST DEPTH.

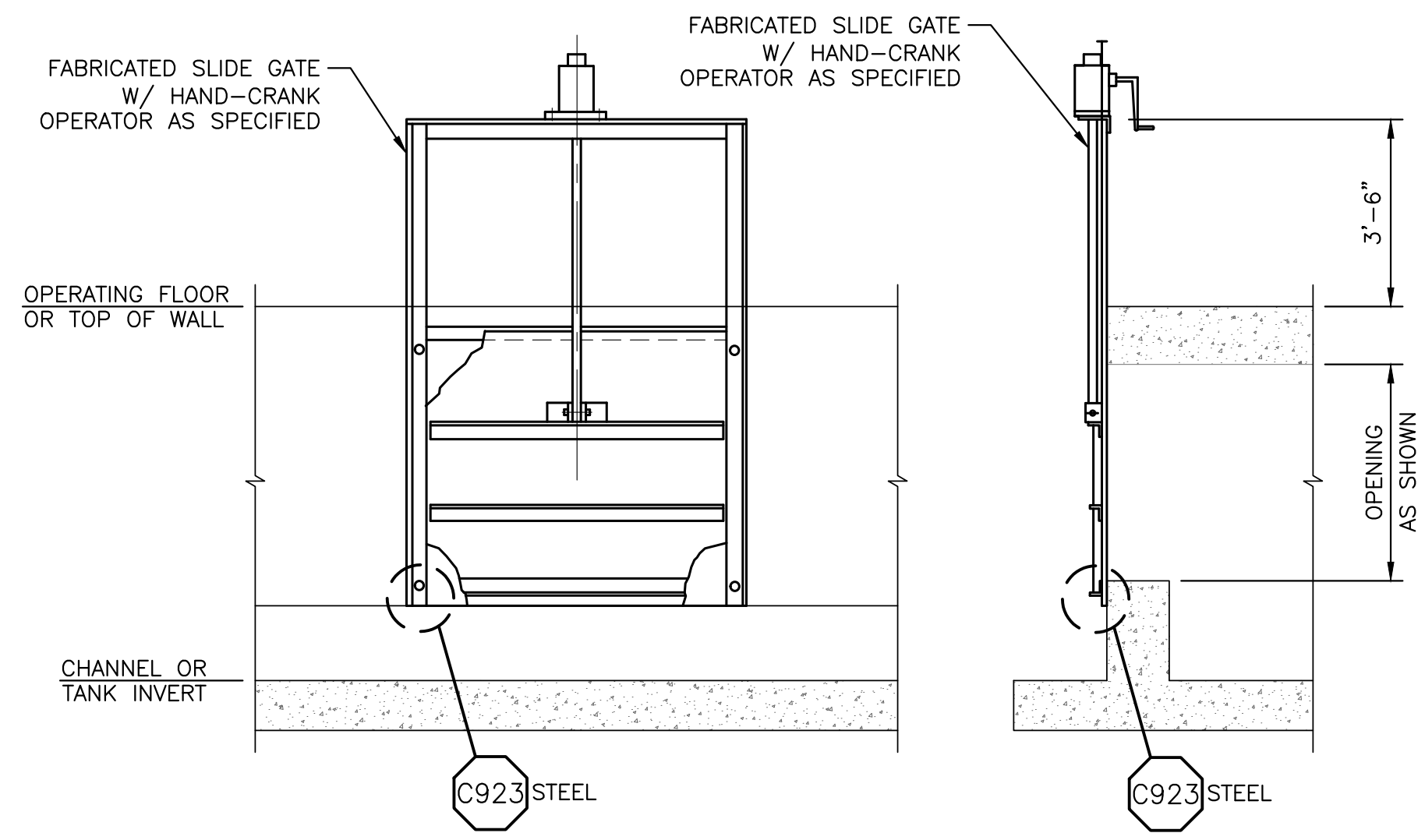
PIPE SUPPORT
SCALE: NTS (FOR PIPE 72" DIAMETER AND SMALLER)

C909



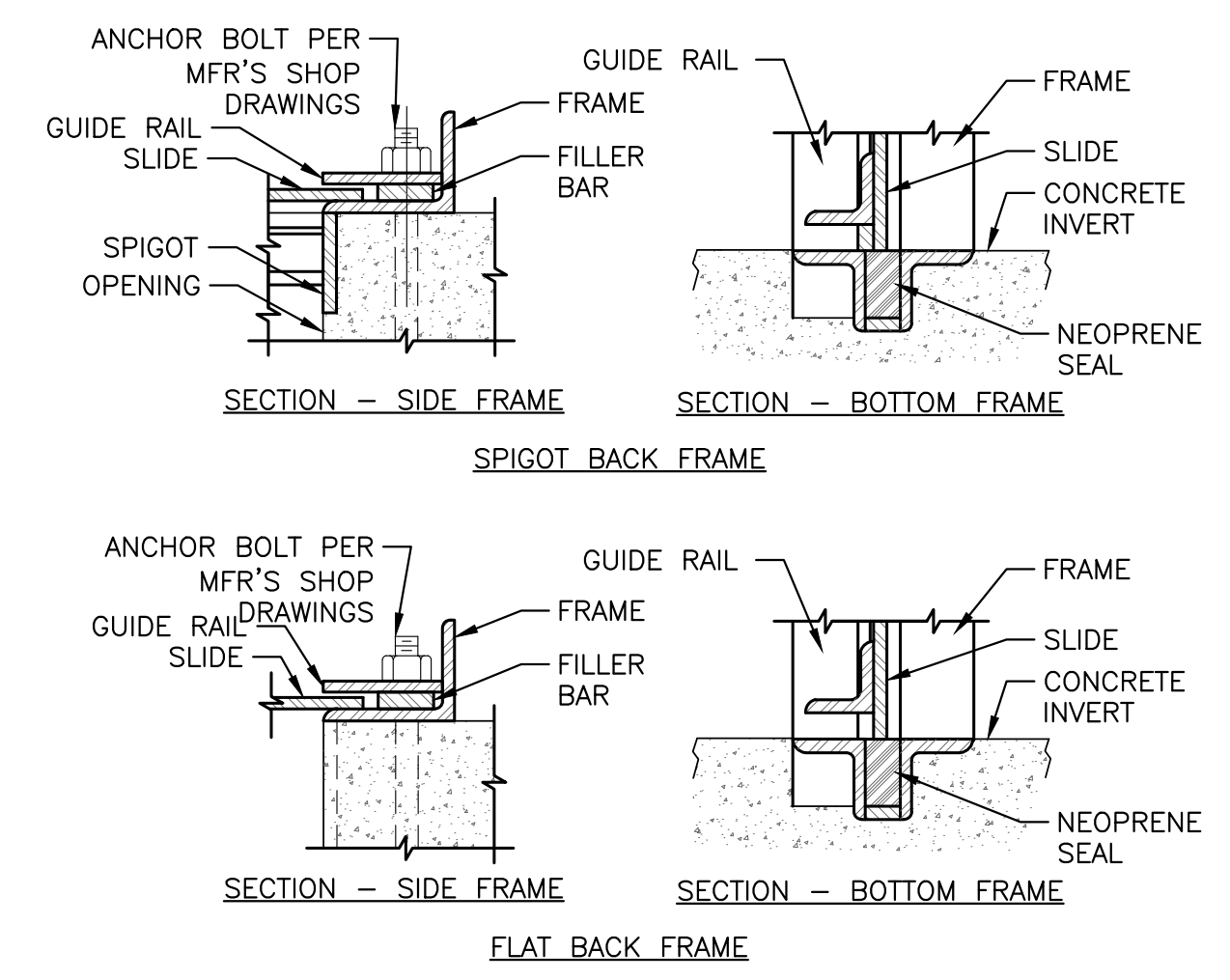
FABRICATED PIPE THIMBLE
SCALE: NTS

C912



SLIDE GATE - DOWNWARD CLOSING
SCALE: NTS

C915



- NOTE:**
1. FOR ACTUAL DIMENSIONS SEE MANUFACTURER'S SHOP DRAWINGS.
 2. MATERIALS AS SPECIFIED.

FLUSH BOTTOM OR FLAT BACK FRAME
SCALE: NTS

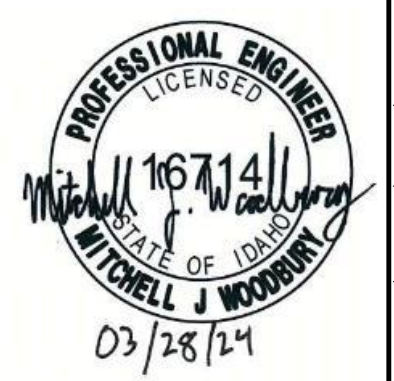
C923

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
STANDARD CIVIL DETAILS 3

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
GC003
SCALE: AS NOTED

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

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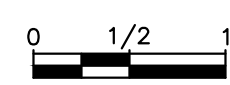
GATES									
EQUIP NO.	LOCATION	DESCRIPTION	TYPE	MATERIAL	SIZE	SEATING/UNSEATING HEAD (FT)	OPERATOR	OPENING DIRECTION	COMMENTS
SG-1	INTAKE	INTAKE GATE	SLIDE GATE	STAINLESS STEEL	48"Wx24"T	0/5.0	HAND WHEEL OPERATOR	UPWARD	WATERMAN SS250 OR EQUAL
SG-2	INTAKE	INTAKE DRAIN GATE	SLIDE GATE	STAINLESS STEEL	48"Wx24"T	0/5.0	HAND WHEEL OPERATOR	UPWARD	WATERMAN SS250 OR EQUAL
SG-3	BYPASS CHANNEL	BYPASS CHANNEL DRAIN	SLIDE GATE	CAST IRON	30" DIA	10/0	HAND WHEEL OPERATOR	UPWARD	WATERMAN C-10 OR EQUAL
SG-4	BYPASS CHANNEL	BYPASS CHANNEL CONTROL	SLIDE GATE	CAST IRON	16" DIA	10/0	HAND WHEEL OPERATOR	UPWARD	WATERMAN C-10 OR EQUAL

FLOW METERS							
EQUIP NO.	LOCATION	DESCRIPTION	TYPE	POWER	SIZE	MAKE AND MODEL	COMMENTS
FM-1	METER VAULT	PARIS RELIEF FLOW METER	ELECTROMAGNETIC	BATTERY	30" DIA	GLOWTECH/GEM	READOUT DISPLAY NOT INCLUDED
FM-2	METER VAULT	SOUTHFIELD PIPELINE FLOW METER	ELECTROMAGNETIC	BATTERY	16" DIA	GLOWTECH/GEM	READOUT DISPLAY NOT INCLUDED

VALVES					
EQUIP NO.	LOCATION	DESCRIPTION	SIZE	MAKE AND MODEL	COMMENTS
AV-1	PARIS RELIEF PIPELINE	AIR/VAC VALVE	0'-2"	VALVEMATIC	OR EQUAL



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TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 EQUIPMENT SCHEDULES

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24



DRAWING
G C 0 0 4
 SCALE: AS NOTED

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SHEET NOTES:

- DIVERSION STRUCTURE AND ROCK VANE DESIGNS ARE BASED ON CURRENT CHANNEL CONDITIONS WITH BEST ESTIMATES OF STREAM FLOWS POST-DECOMMISSIONING OF THE PARIS HYDRO PROJECT. INCREASED BASE FLOWS POST PROJECT MAY RESULT IN UNANTICIPATED CHANGES TO THE CHANNEL CONFIGURATION WITHIN THE PROJECT VICINITY. POST PROJECT ADJUSTMENTS OF THE ROCK VANES AND INTAKE STRUCTURE MAY BE REQUIRED AS A RESULT OF INCREASED BASE FLOWS.
- CONTRACTOR SHALL SUBMIT BID BASED ON COMPLETION OF ALL KEY PROJECT ELEMENTS IDENTIFIED UNDER PHASE 1 AND PHASE 2.
- CONSTRUCTION OF PHASE 2 IS DEPENDENT UPON THE DECOMMISSIONING OF PACIFICORPS PARIS HYDRO PROJECT (UNDER A SEPARATE CONTRACT). IN THE EVENT PHASE 2 IS DELAYED, CONTRACTOR SHALL COMPLETE PHASE 1 WORK ELEMENTS AS SHOWN IN THE 2024 WORK WINDOW.
- DESIGN CHANGES TO PHASE 2 PROJECT ELEMENTS (FLOW SPLITTER BOX, VALVE VAULT, AND PARIS RELIEF PIPELINE) ARE ANTICIPATED PENDING INPUT FROM PARIS RELIEF CANAL COMPANY. CONTRACTOR SHALL SUBMIT CHANGE ORDER BASED ON REVISED DRAWINGS PROVIDED BY THE ENGINEER.
- ALL PRODUCTS INSTALLED MUST MEET BUILD AMERICA BUY AMERICA ACT REQUIREMENTS. CONTRACTOR SHALL PROVIDE DOCUMENTATION ON ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH SPEC 01 33 00 CONTRACTOR SUBMITTALS.

SHEET KEY NOTES:

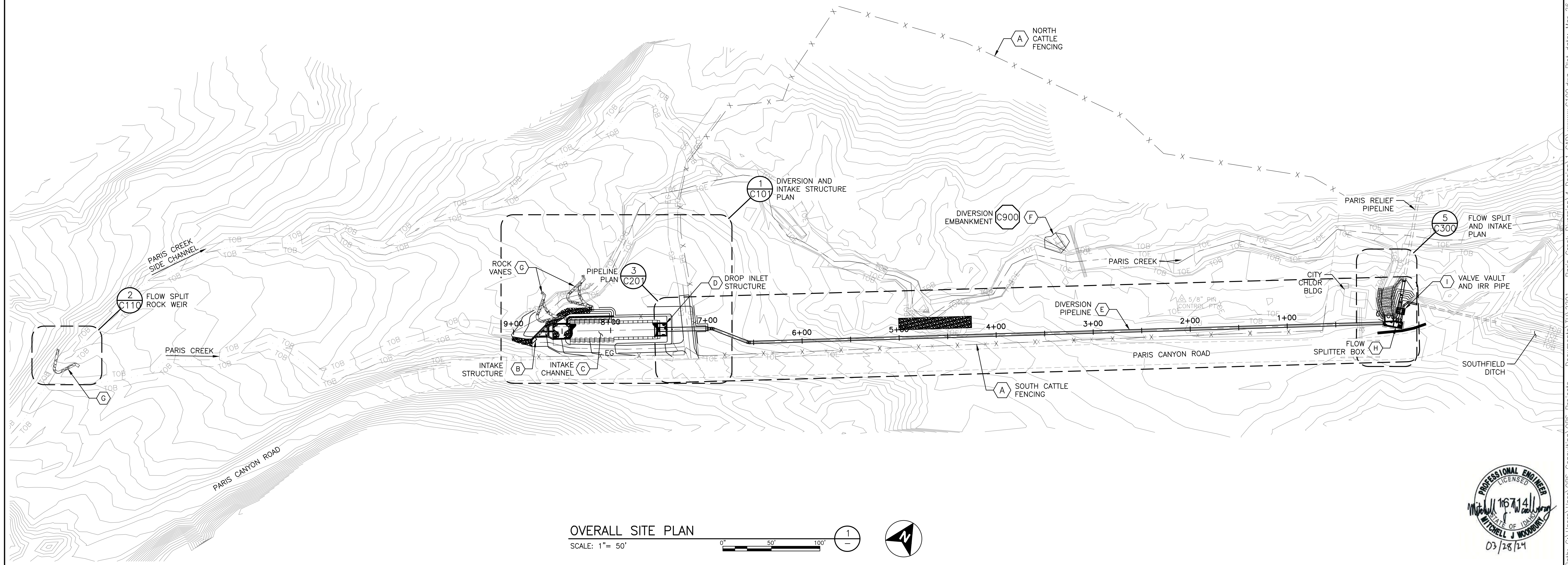
PHASE 1

- A NORTH FENCING:**
INSTALL ~1000 FT OF LET DOWN CATTLE FENCE PRIOR TO REMOVAL OF EXST FENCING ALONG PARIS CANYON ROAD. NEW FENCING SHALL FOLLOW ALONG EAST SIDE OF COUNTY GRAVEL PIT ROAD ROW ACROSS PARIS CREEK AND THEN FOLLOW TOE OF HILLSIDE EAST TOWARD PARIS RELIEF PIPELINE. NEW FENCING SHALL TIE INTO EXST FENCING ADJACENT TO CITY CHLOR BLDG. FENCING SHALL INCLUDE A VEHICLE GATE ACROSS THE GRAVEL PIT ACCESS ROAD. FENCING ALIGNMENT SHOWN IS APPROX. AND WILL BE VERIFIED BY THE LANDOWNER. WHERE NEW FENCING CONFLICTS WITH THE CONSTRUCTION ROW, THE CONTRACTOR SHALL INSTALL TEMP CONSTRUCTION FENCING AROUND WORK AREA TO EXCLUDE CATTLE DURING PERFORMANCE PERIOD.
- SOUTH FENCING:**
INSTALL ~985 FT OF LET DOWN CATTLE FENCING ALONG PARIS CANYON ROAD AND NEW INTAKE STRUCTURE. VEHICLE GATES SHALL BE INSTALLED AT THE GRAVEL PIT ACCESS ROAD ENTRANCE AND INTAKE STRUCTURE DRIVEWAY. INSTALL A SINGLE MAN GATE NEAR PIPELINE (STA 3+50.00) FOR ACCESS TO EXST FOOT BRIDGE.
- B DIVERSION INTAKE STRUCTURE SHALL BE A TWO-BAY CONCRETE STRUCTURE TO DIVERT WATER FROM PARIS CREEK. THE STRUCTURE SHALL BE FITTED WITH STEEL TRASH RACKS, SLUICE GATES, STEEL GRATING, AND RIPRAP STILLING BASIN. SEE SHEETS C101 AND S100.**
- C INTAKE CHANNEL SHALL CONVEY WATER FROM THE INTAKE STRUCTURE TO THE DROP INLET BOX. THE CHANNEL SHALL BE A 14' WIDE X 90' LONG, COBBLE/RIPRAP LINED CHANNEL WITH ECOBLOCK RETAINING WALLS. CHANNEL DESIGN BASED ON FUTURE INSTALLATION OF A ROTATING DRUM FISH SCREEN.**
- D DROP INLET STRUCTURE TO SERVE AS INLET FOR IRRIGATION PIPE. THE STRUCTURE CONSISTS OF A 13'-8" WIDE X 9'-10" LONG X 8' TALL CONCRETE STRUCTURE WITH GRATING AND STOPLOGS. SEE SHEET S115 FOR DETAILS.**
- E IRRIGATION PIPELINE SHALL CONVEY WATER BELOW GROUND TO THE FLOW SPLITTER BOX. THE IRRIGATION PIPELINE SHALL CONSIST OF APPROX 60 FT OF 48" Ø C900 AND APPROX 700 FT OF 30" Ø C900 PIPE. PIPELINE SHALL INCLUDE ALL FITTINGS REQD FOR INSTALLATION AS SHOWN, INCLUDING FLANGED CONNECTIONS, ELBOWS, AND AIR VENTS. SEE SHEET C201 FOR DETAILS.**
- F DEMO EXST CONC DIVERSION STRUCTURE AND REBUILD CHANNEL EMBANKMENT. SEE SHEET D001 AND CIVIL DETAIL C900.**
- G ROCK VANE DIVERSION STRUCTURES PROVIDE THE HYDRAULIC GRADE CONTROL FOR THE DIVERSION INTAKE WHILE MAINTAINING FISH PASSAGE IN THE CREEK. CONTRACTOR SHALL CONSTRUCT THREE (3) ROCK VANES FROM LARGE DIAMETER ANGULAR ROCK AT THE LOCATIONS SHOWN. SEE C110 FOR DETAILS.**

SHEET KEY NOTES (CONT'D):

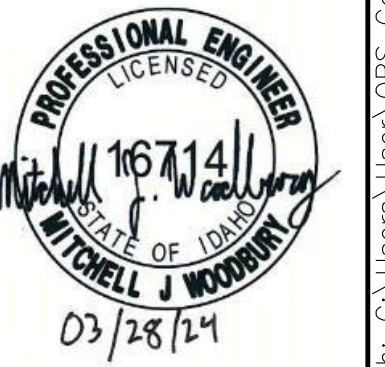
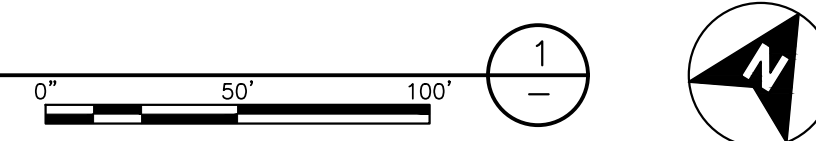
PHASE 2

- H FLOW SPLITTER BOX RECEIVES WATER FROM THE IRRIGATION PIPELINE AND PROVIDES FLOW CONTROL TO PARIS RELIEF AND SOUTHFIELD DITCH PIPELINES. THE CONCRETE STRUCTURE INCLUDES TWO SLUICE GATES, A STOPLOG OVERFLOW SPILLWAY, AND GRATING. SEE SHEETS C300 AND S300 FOR DETAILS.**
- I VALVE VAULT AND PIPELINE RECONNECTION COMPRISES A CONCRETE VAULT TO HOUSE IDWR APPROVED FLOW METERS FOR THE AND METER VAULT AND PIPELINE RECONNECTION TO THE PARIS RELIEF AND SOUTHFIELD DITCH PIPELINES.**



OVERALL SITE PLAN

SCALE: 1" = 50'



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TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
OVERALL SITE PLAN

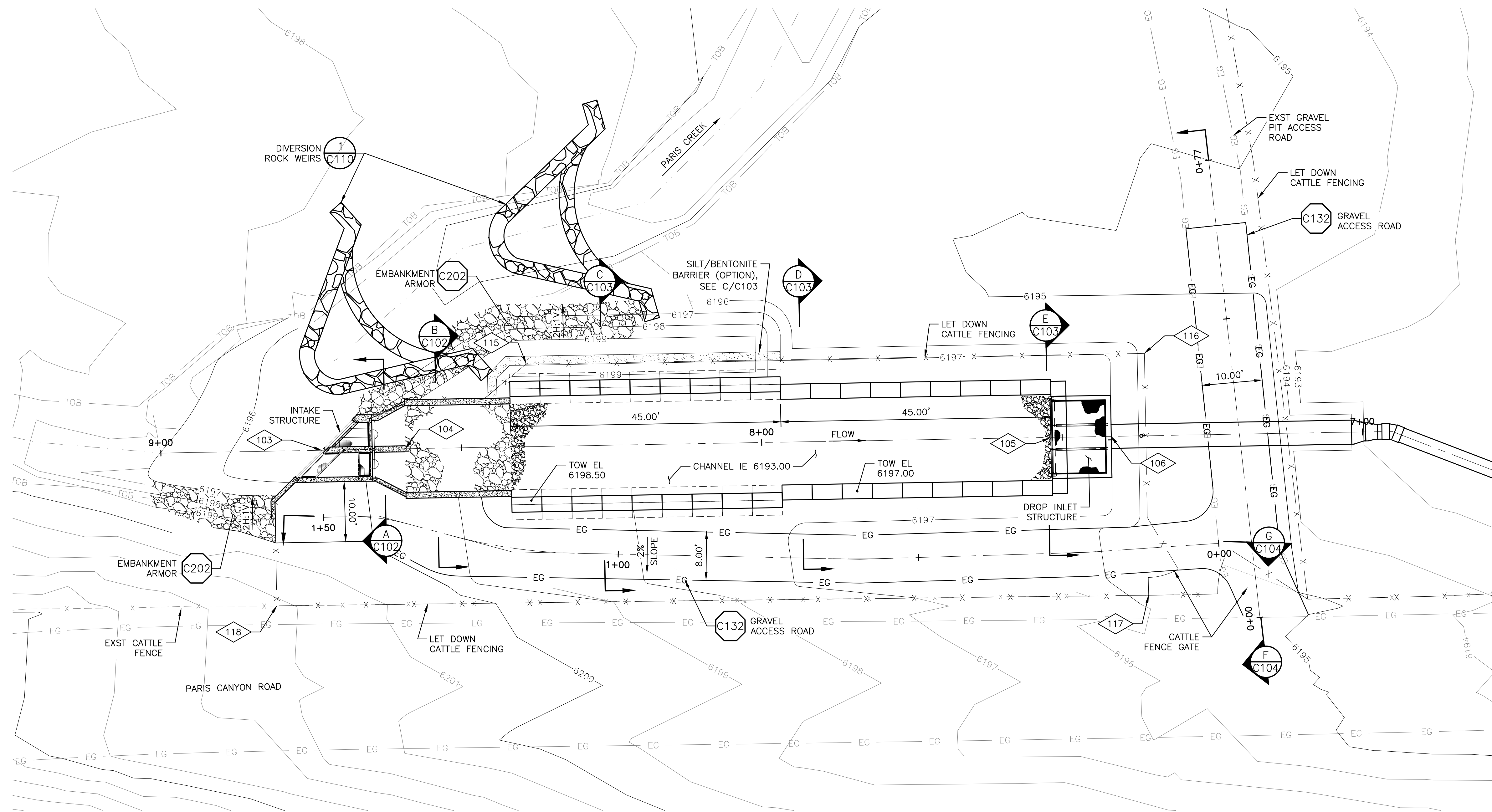
DESIGNED J. WOODBURY
DRAWN J. LAHMOM
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
C100
SCALE: AS NOTED

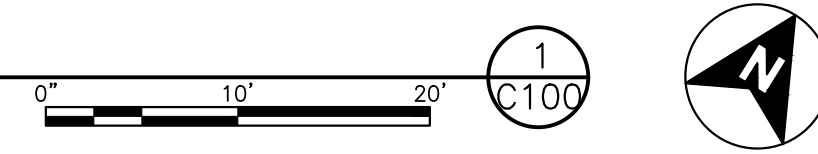
SHEET NOTES:

1. CONTRACTOR SHALL RETAIN AND PROTECT EXST CATTLE FENCE ABOVE PROJECT AREA. CATTLE FENCE SHALL BE REATTACHED TO CORNER POST OF NEW CHAIN LINK FENCE.
2. CONTRACTOR SHALL UTILIZE EXCESS LARGE DIAMETER (8" - 18") STREAM BOULDERS FOR EMBANKMENT ARMORING.
3. NATIVE COBBLES AND GRAVELS FROM INTAKE STRUCTURE AND CHANNEL EXCAVATIONS MAY BE USED FOR DEVELOPMENT OF INTAKE CHANNEL. SEE SECTION C/103.
4. U.N.O. ALL GROUND AREA DISTURBED FROM CONSTRUCTION SHALL BE RESEDED. SEED MIX SHALL BE APPROVED BY LAND OWNER.
5. EXST VEGETATION SHALL BE MULCHED AND WORKED INTO TOP SOIL.
6. SEE G005 FOR CONTROL POINTS.
7. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON BACKFILL OF EMBANKMENT. IF NATIVE BACKFILL MATL IS LIKELY TO RESULT IN HIGH SEEPAGE RATES THROUGH THE ECOBLOCK WALL, CONTRACTOR SHALL INSTALL AN 18" WIDE SILT/BENTONITE BARRIER WITH ENGINEER'S APPROVAL. BARRIER SHALL BE INSTALLED ALONG THE LENGTH OF THE DOUBLE ECOBLOCK WALL, AS SHOWN, AND FROM EL 6192.0 UP TO 6197.0.
8. CATTLE FENCING SHALL BE INSTALLED ALONG EAST SIDE OF COUNTY GRAVEL PIT ROW. CONTRACTOR SHALL IMPLEMENT TEMPORARY FENCING AS NEEDED TO PREVENT CATTLE ACCESS TO WORK AREA.



PLAN

SCALE: 1" = 10'



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DIVERSION AND INTAKE STRUCTURE PLAN

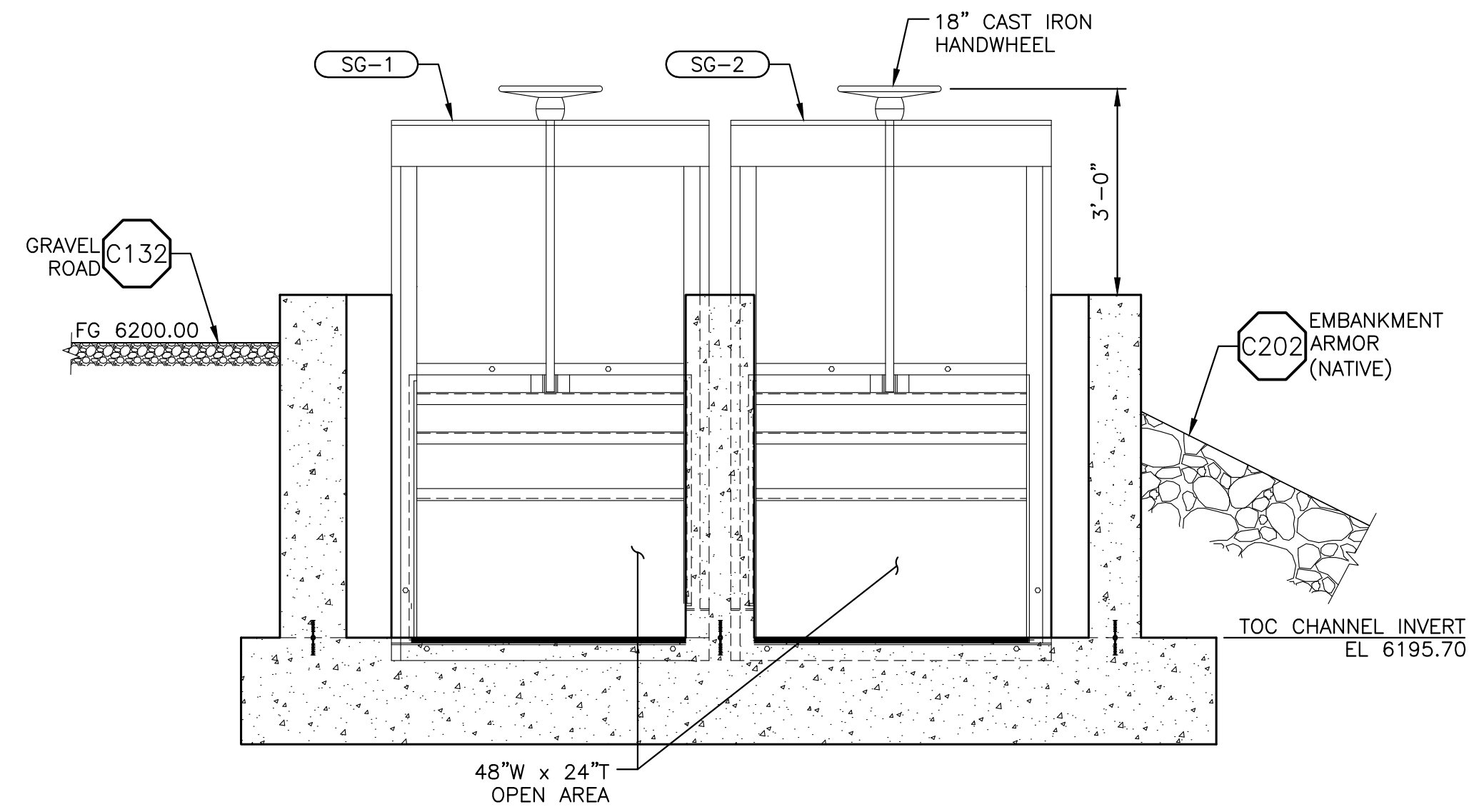
DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24



DRAWING
C101
 SCALE: AS NOTED

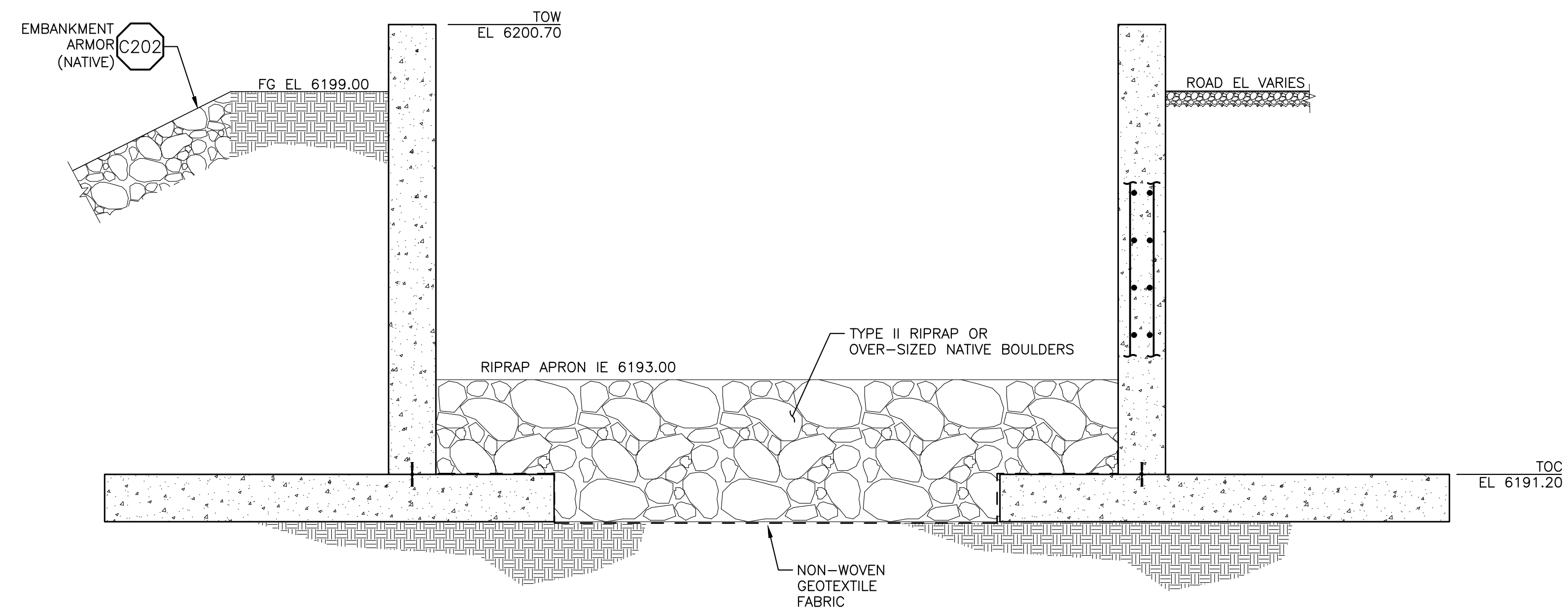
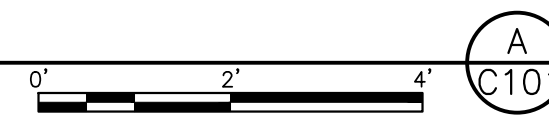
SHEET NOTES:

1. SEE GC004 FOR GATE SCHEDULE.
2. EMBANKMENT ARMOR MAY BE CONSTRUCTED FROM NATIVE BOULDERS EQUIVALENT OR LARGER THAN TYPE II RIPRAP.



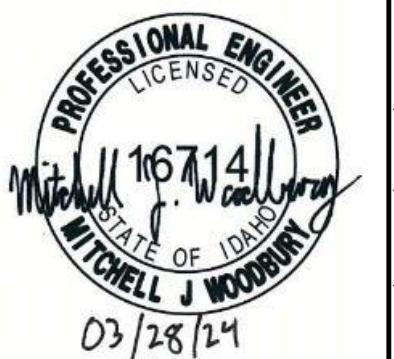
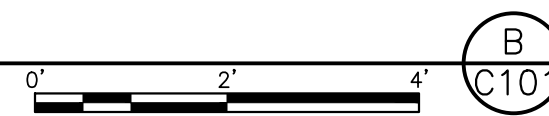
SECTION

SCALE: 1/2" = 1'-0"



SECTION

SCALE: 1/2" = 1'-0"



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 SECTIONS AND DETAILS 1

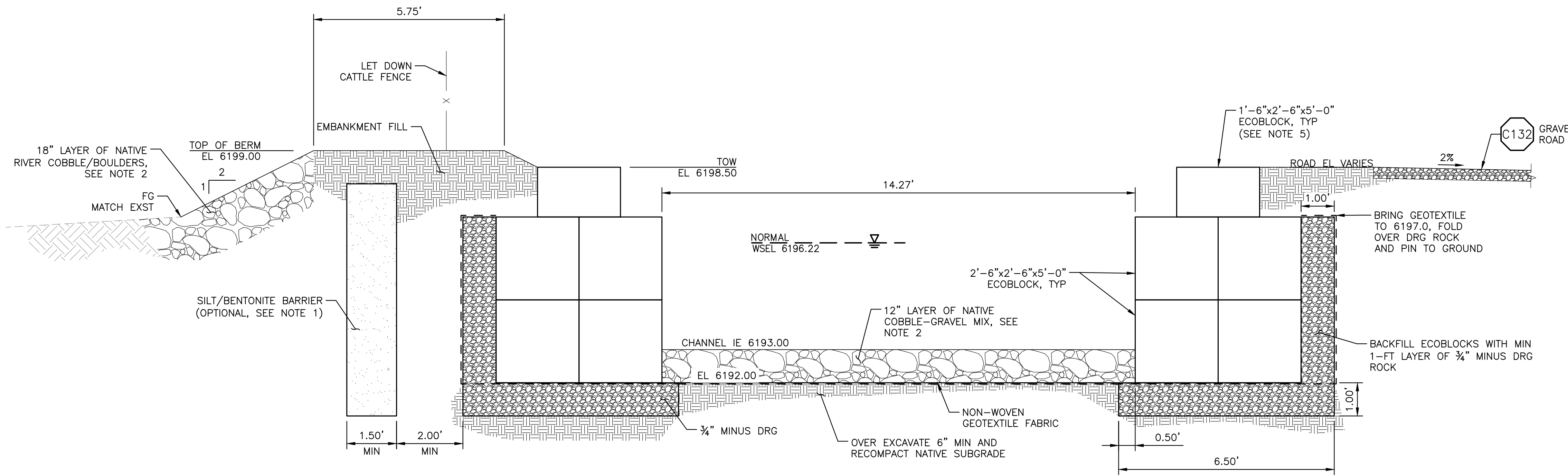
DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24



DRAWING
C102
 SCALE: AS NOTED

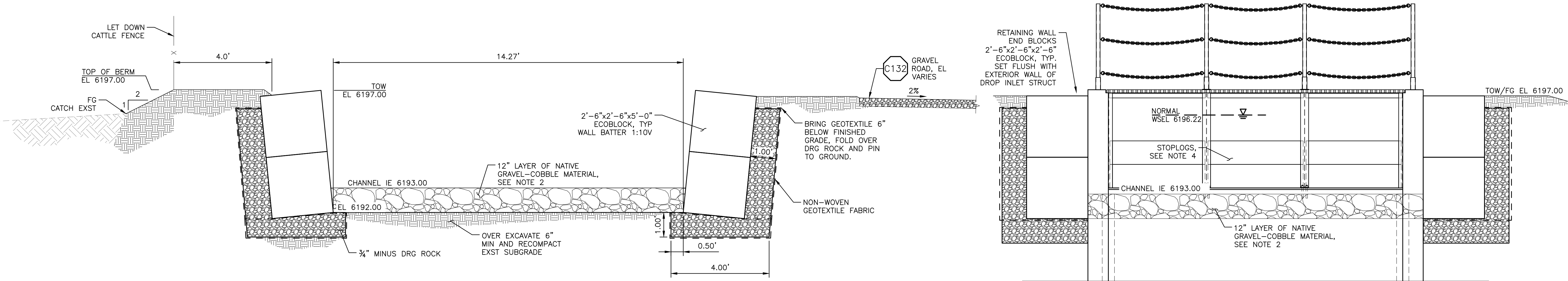
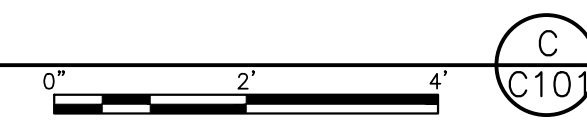
SHEET NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON OPTIONAL SILT/BENTONITE BARRIER. BARRIER SHALL BE INSTALLED IF NATIVE EMBANKMENT FILL RESULTS IN HIGH SEEPAGE RATES.
2. INTAKE CHANNEL BOTTOM SHALL CONSIST OF A 12" LAYER OF TYPE I (6" D50) RIPRAP OR SIMILAR SIZED NATIVE COBBLES. RIPRAP OR COBBLE LAYER SHALL BE MIXED WITH NATIVE GRAVELS TO CREATE A STABLE AND VOID FREE LAYER.
3. CONTRACTOR SHALL PRIORITIZE THE USE OF NATIVE RIVER COBBLE AND BOULDERS FOR DEVELOPMENT OF EMBANKMENT ARMOR. TYPE II RIPRAP SHALL BE IMPORTED FOR EMBANKMENT ARMORING WHERE THE QUANTITY OF ONSITE MATERIAL IS INSUFFICIENT TO COMPLETE THE WORK AS SHOWN OR COLLECTION OF ONSITE BOULDERS BECOMES LESS COST EFFECTIVE THAN IMPORTING MATERIALS.
4. STOPLOGS SHALL BE INSTALLED TO MAINTAIN A MINIMUM 2.5-FOOT FLOW DEPTH IN THE DIVERSION CHANNEL AT THE FULL DIVERSION RATE. THE NORMAL WSEL SHOWN IS A REQUIREMENT FOR FISH SCREEN OPERATIONS. FISH SCREEN MAY BE CONSTRUCTED IN THE FUTURE UNDER A SEPARATE CONTRACT.
5. ECOBLOCK SIZES MAY VARY BASED ON AVAILABILITY FROM LOCAL SUPPLIERS. CONTRACTOR SHALL SUBMIT DIMENSIONS AND QUANTITIES OF PROPOSED ECOBLOCKS TO ENGINEER FOR APPROVAL IN ACCORDANCE WITH SPECIFICATIONS 01 33 00.



RIPRAP CHANNEL SECTION

SCALE: 1" = 2'



RIPRAP CHANNEL SECTION

SCALE: 1" = 2'

DROP INLET STRUCTURE SECTION

SCALE: 1" = 2'

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED		DESIGNED J. WOODBURY
PARIS CREEK DIVERSION PROJECT		DRAWN J. LAHMOM
SECTIONS AND DETAILS 2		CHECKED C. BOYD
		ISSUED DATE 03/27/24



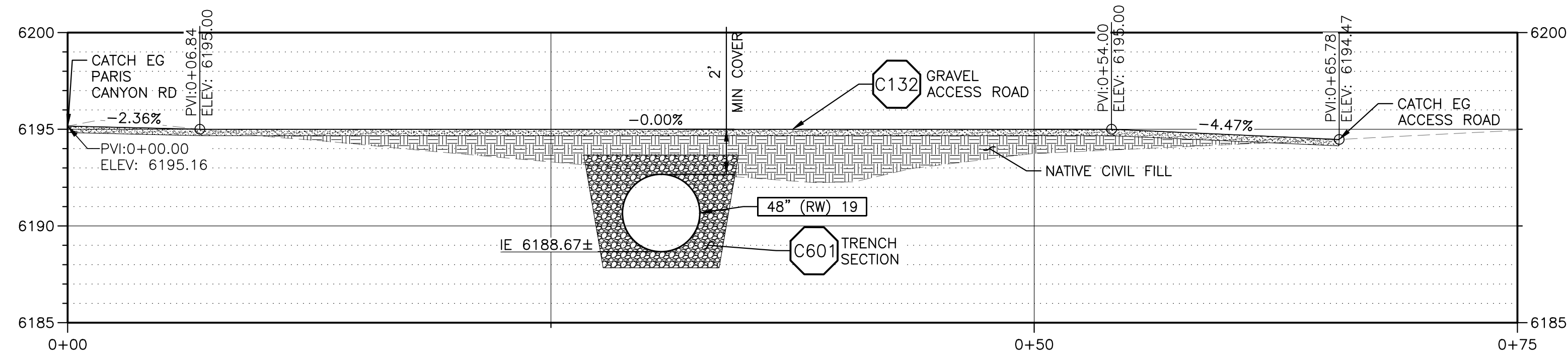
DRAWING
C103
SCALE: AS NOTED

REV	DATE	BY	DESCRIPTION
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1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

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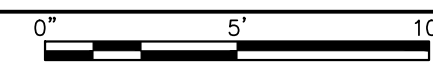
SHEET NOTES:

- CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF EXISTING ROADWAYS. CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS BETWEEN PROPOSED GRAVEL ACCESS ROADS AND PARIS CANYON ROAD/EXISTING GRAVEL PIT ACCESS ROAD.

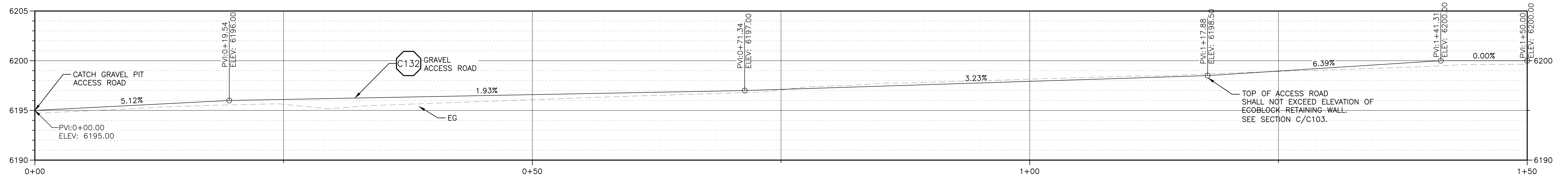


ACCESS ROAD PROFILE

SCALE: 1" = 5'

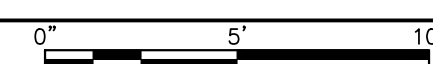


F
C101

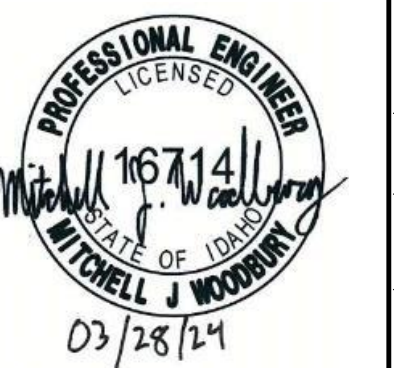


INTAKE ACCESS ROAD PROFILE

SCALE: 1" = 5'



G
C101



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



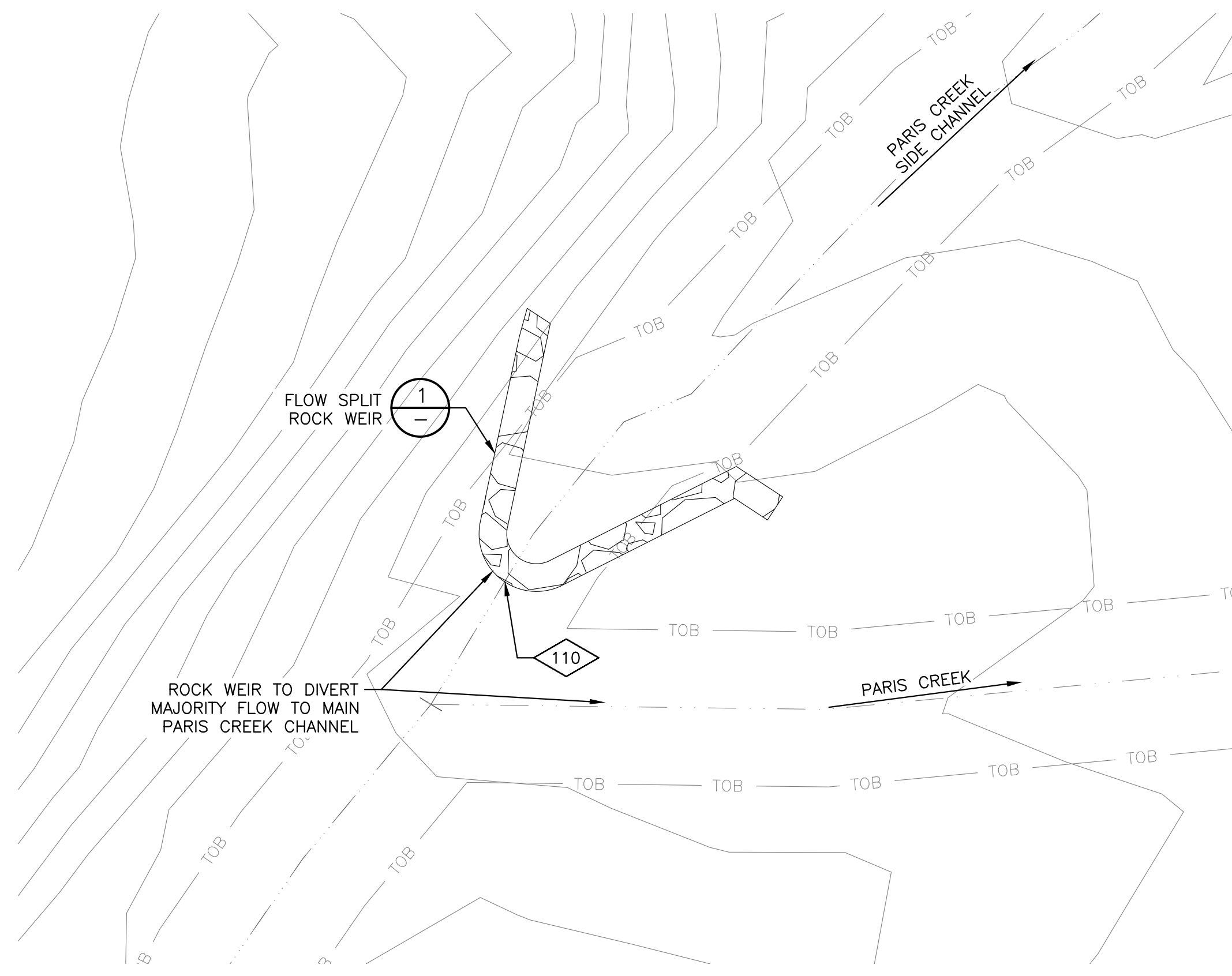
TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 SECTIONS AND DETAILS 3

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24

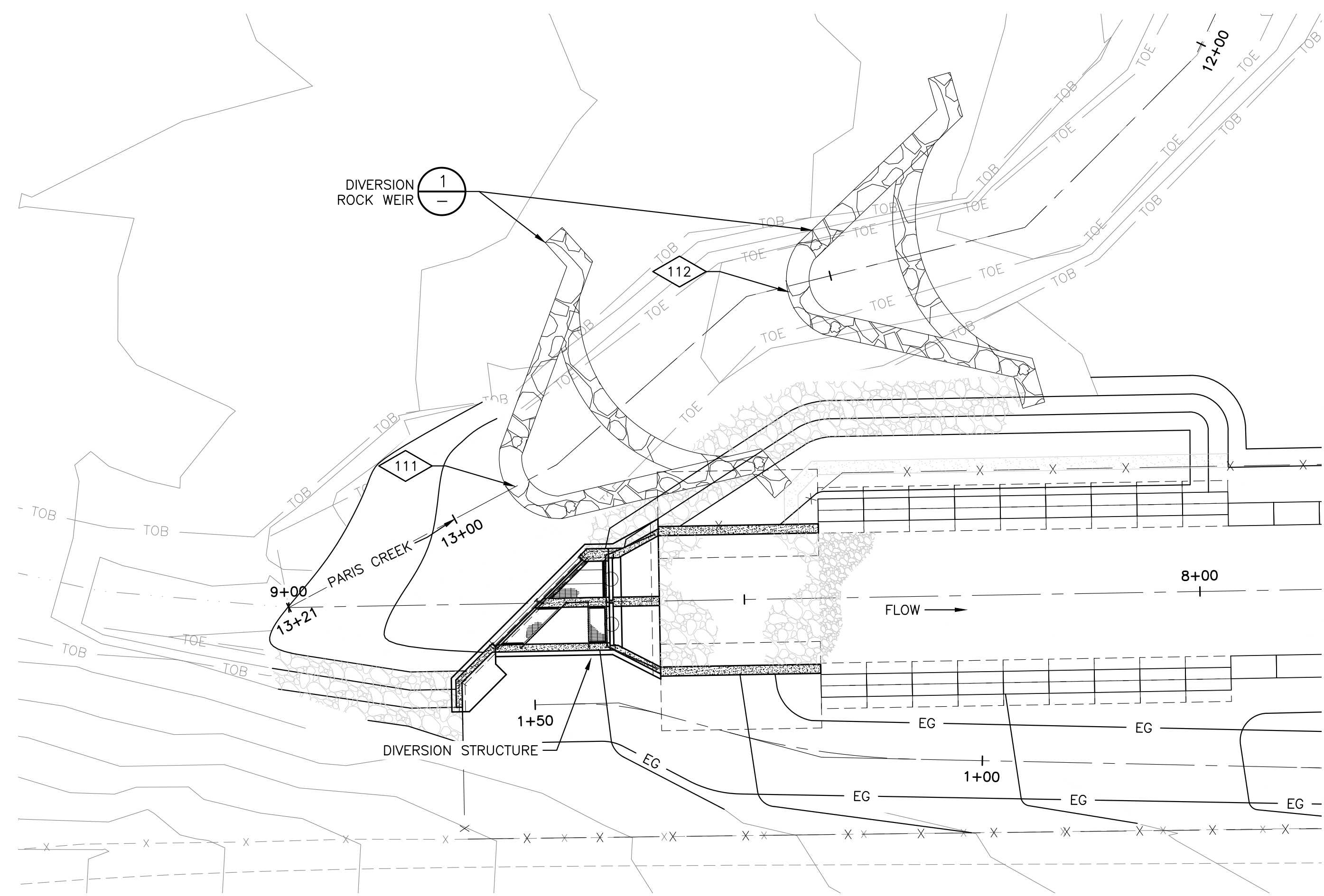


DRAWING
C104
 SCALE: AS NOTED

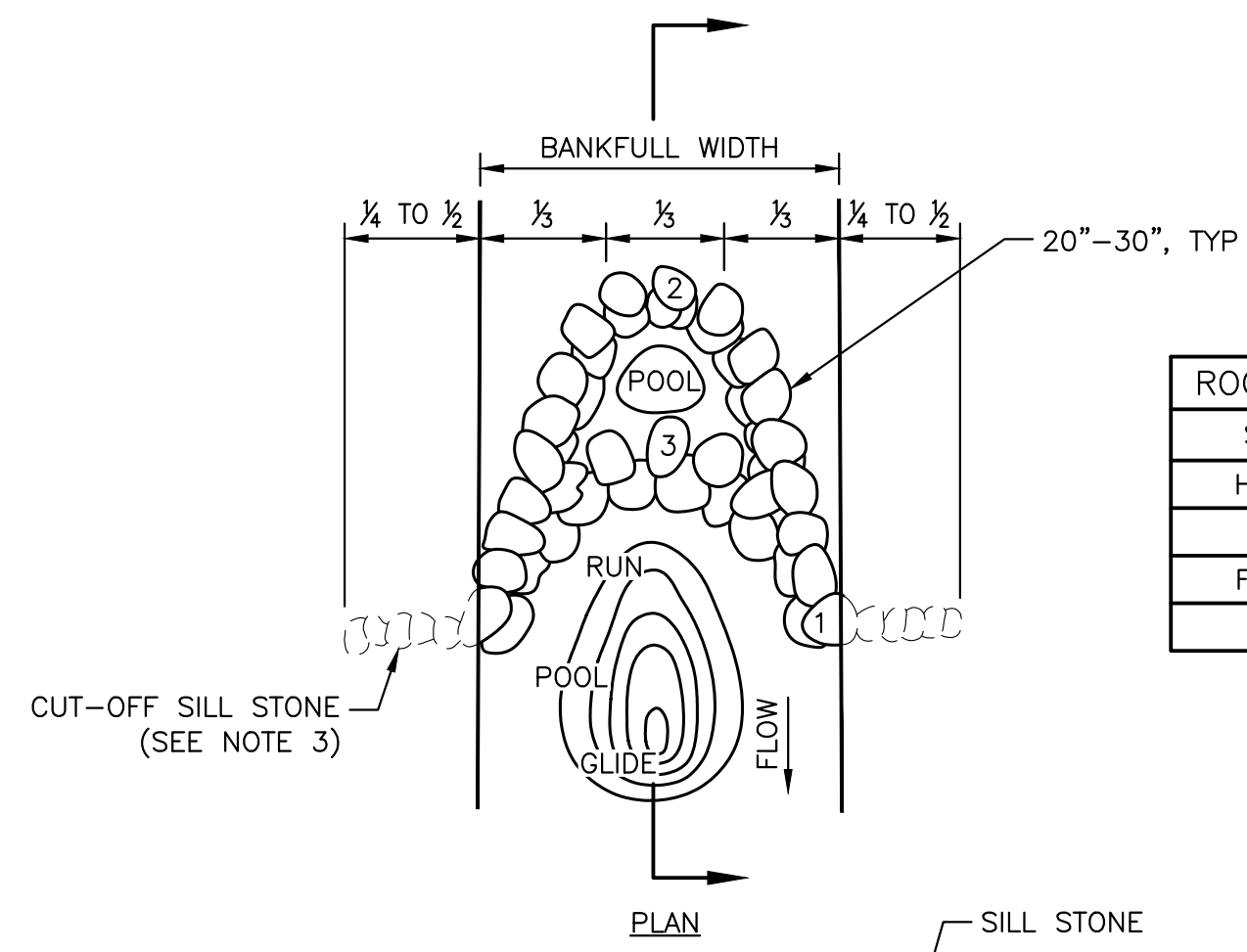
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FLOW SPLIT ROCK WEIR
SCALE: 1" = 10'

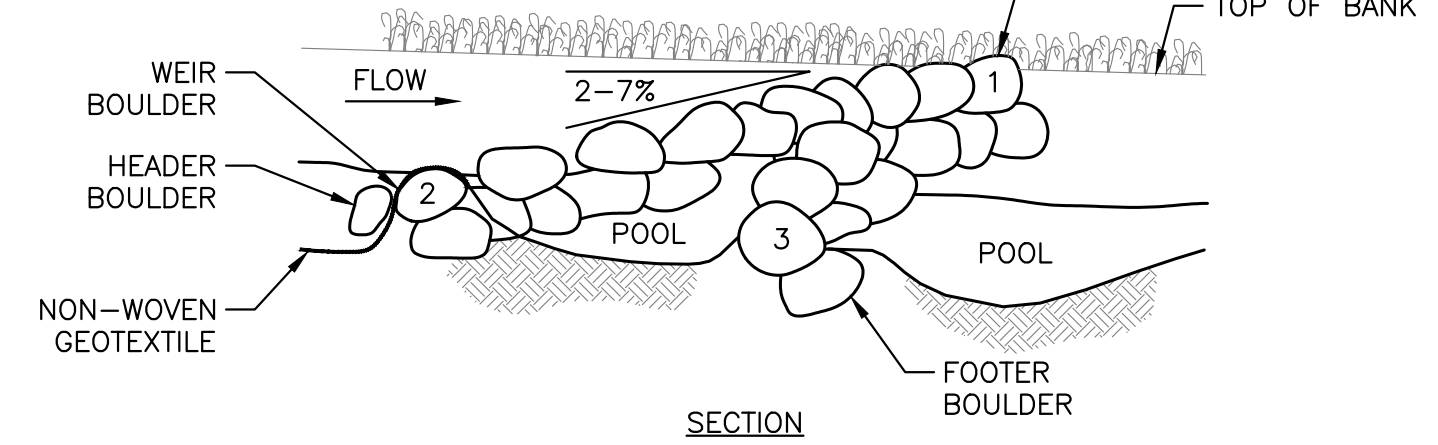


DIVERSION ROCK WEIRS
SCALE: 1" = 10'



ROCK VANE STONE SIZE	
STONE	DIA (IN)
HEADER	18
WEIR	34
FOOTER	30
SILL	12

- NOTES:**
1. BANKFULL WIDTH IS ~21 FEET
 2. CONTRACTOR SHALL WORK WITH ENGINEER ON PLACEMENT OF WEIR BOULDERS.
 3. BOULDERS SHALL BE ANGULAR IN SHAPE TO ALLOW STACKING AND FORMATION OF A STABLE STRUCTURE.
 4. GAPS BETWEEN BOULDERS SHALL BE CHINKED WITH SMALLER STONES TO PREVENT PIPING OR MOVEMENT OF LARGER BOULDERS.
 5. GEOTEXTILE FABRIC SHALL BE CUT BACK AFTER PLACEMENT OF HEADER BOULDERS TO MINIMIZE VISIBILITY OF FABRIC.
 6. SCOUR POOL WEIR (3) INVERTS SHALL BE SET 6" BELOW INVERT OF PRIMARY WEIR (2).



ROCK VANE DETAIL
SCALE: NTS



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

ROCK WEIR PLANS AND DETAILS

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



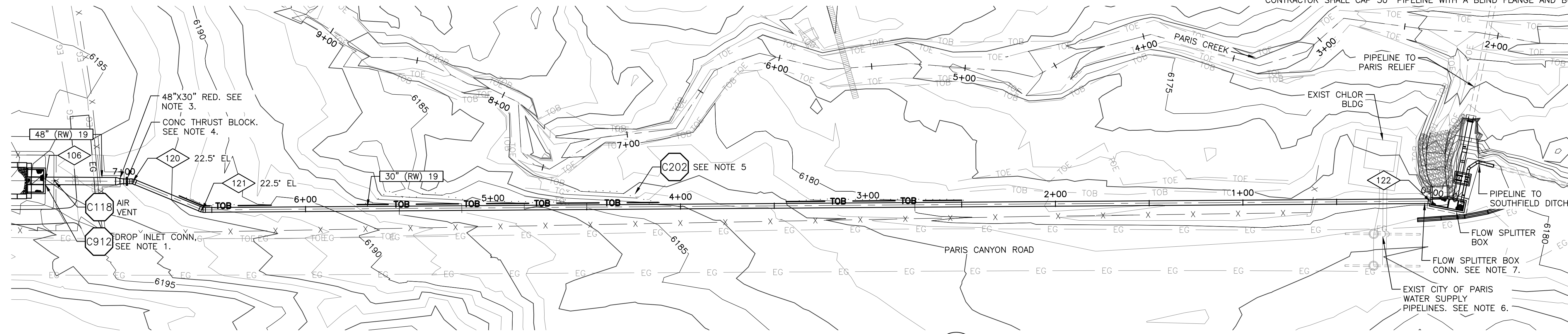
DRAWING
C110
SCALE: AS NOTED

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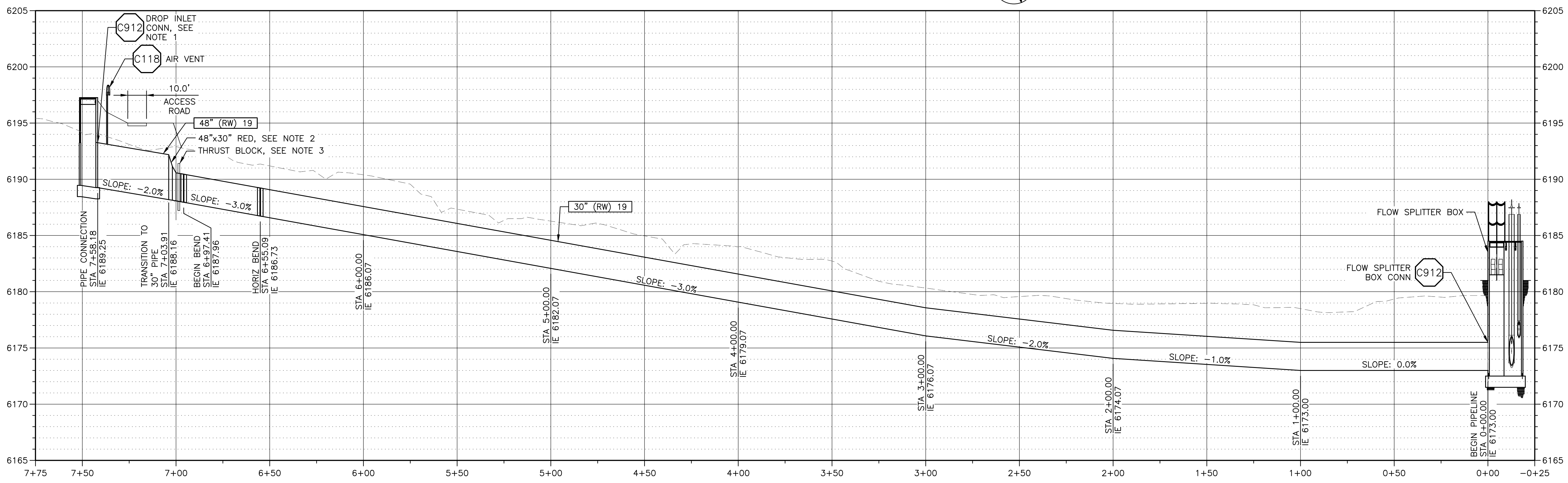
SHEET NOTES:

1. DROP INLET BOX FLANGED THIMBLE CONNECTION TO 48"Ø PIPE TO BE INSTALLED AT 2% SLOPE.
2. TRANSITION FROM 48"Ø TO 30"Ø PIPE SHALL BE AN ECCENTRIC REDUCER FABRICATED FROM EPOXY COATED STEEL WITH A MIN WALL THICKNESS OF 3/8". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FABRICATED REDUCER. SHOP DRAWINGS SHALL INCLUDE MEANS OF CREATING WATER TIGHT CONNECTIONS TO PVC PIPE.
3. INSTALL THRUST BLOCK COLLAR ON 30" PIPE BELOW 48"x30" RED. THRUST BLOCK SHALL HAVE A MIN BEARING AREA OF 20 SQ.FT (~4.5'T X 4.5'W) AND A MIN THICKNESS OF 1 FT.
4. EXST GROUND ALONG 30"Ø PIPELINE IS APPROX DUE TO DENSE VEGETATION. WHERE PIPE GRADE LEAVES LESS THAN 1 FT OF COVER OVER PIPE, CONTRACTOR SHALL ADD FILL TO

5. MAINTAIN PIPE TRENCH DIMENSIONS AND MIN 2 FT OF COVER. CONTRACTOR SHALL INSTALL RIPRAP EMBANKMENT ARMORING WHERE ACTIVE OR ABANDONED STREAM CHANNELS ENCROACH UPON PIPELINE. EMBANKMENT ARMOR SHALL BE INSTALLED FROM TOE OF SLOPE (PER DETAIL C202) TO TOP OF BANK. PIPE TRENCH AND BACKFILL SHALL BE INSTALLED PER DETAIL C601.
6. LOCATION OF EXST CITY WATER SUPPLY LINES TO THE CHLOR BLDG SHALL BE FIELD VERIFIED. IF EXST LINES CONFLICT WITH THE IRRIGATION PIPE, CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER. WITH WRITTEN APPROVAL FROM CITY, OWNER, AND ENGINEER, CONTRACTOR SHALL RELOCATE EXISTING WATER SUPPLY LINES.
7. FLOW SPLITTER BOX FLANGED THIMBLE CONNECTION SHALL INCLUDE 12' BND FOR FLUSH MOUNT TO 30"Ø PIPE.
8. IF CONSTRUCTION OF FLOW SPLITTER BOX IS DELAYED UNTIL THE FOLLOWING YEAR, CONTRACTOR SHALL CAP 30" PIPELINE WITH A BLIND FLANGE AND BURY IN-PLACE.



PLAN
SCALE: 1" = 30'



PROFILE
SCALE: HORIZ 1" = 30'
VERT 1" = 5'



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



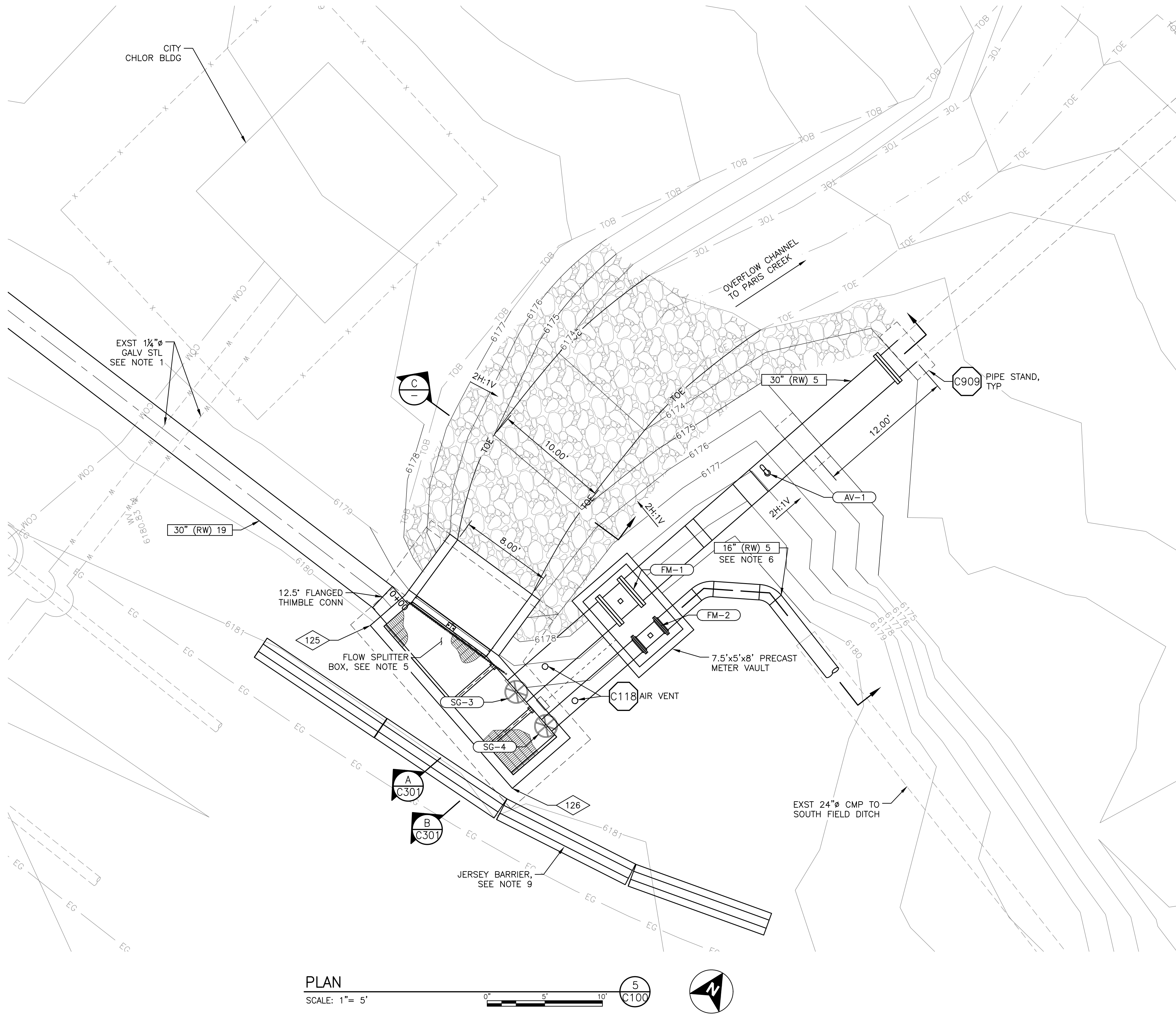
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
PIPELINE PLAN AND PROFILE

DESIGNED J. WOODBURY
DRAWN J. LAHMEN
CHECKED C. BOYD
ISSUED DATE 03/27/24

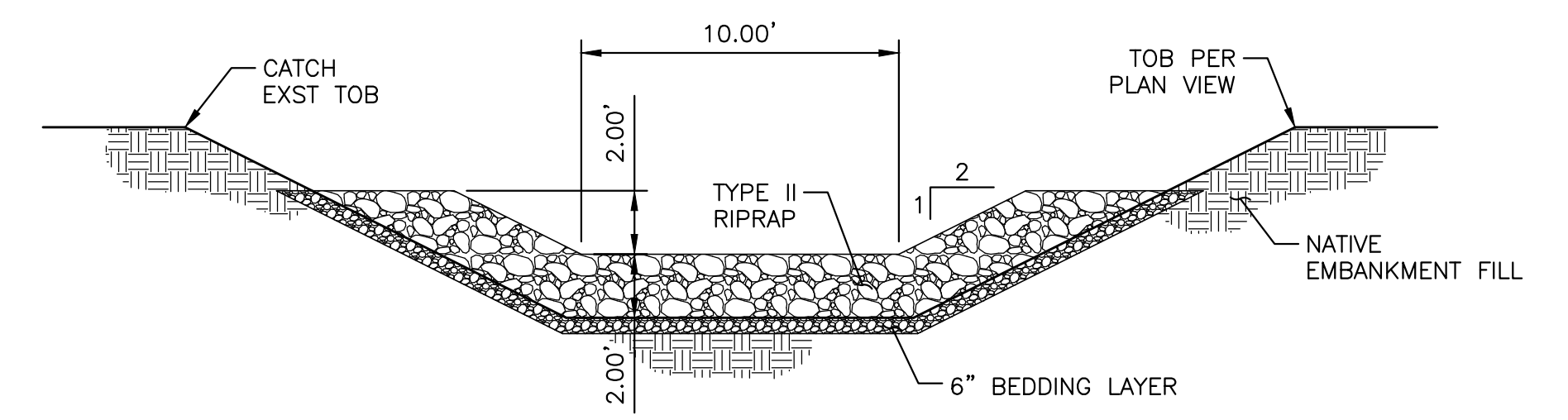


DRAWING
C201
SCALE: AS NOTED

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- SHEET NOTES:**
1. CONTRACTOR SHALL RETAIN AND PROTECT CITY OF PARIS WATER SUPPLY SYSTEM DURING CONSTRUCTION.
 2. LOCATION OF EXST WATER SUPPLY LINES ARE APRX. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES IN THE PROJECT AREA.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ROUTING 1 1/4"Ø WATER SUPPLY SERVICE LINES AND COMMUNICATION LINE TO THE CHLORINATION BLDG, IF REQUIRED, TO AVOID CONFLICT WITH IRR DITCH/PIPELINE.
 4. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE ENGINEER AND THE CITY OF PARIS TO SCHEDULE WATER SUPPLY SERVICE DISRUPTIONS. CONTRACTOR SHALL RECEIVE PERMISSION FROM THE CITY OF PARIS PRIOR TO MAKING ANY MODIFICATIONS TO THE EXST WATER SUPPLY SYSTEM.
 5. IF CONSTRUCTION OF FLOW SPLITTER BOX IS DELAYED UNTIL 2024, PIPE SHALL BE TEMPORARILY CAPPED WITH BLIND FLANGE AND BURIED IN PLACE. CONTRACTOR SHALL INSTALL MARKER INDICATING LOCATION OF END OF PIPE.
 6. ELEVATION AND LOCATION OF EXST 24" DIA CMP IS APPROXIMATE. CONTRACTOR SHALL FIELD FIT 16" STEEL PIPELINE FROM METER VAULT TO EXST CMP. 16" STEEL PIPELINE SHALL EXTEND A MIN OF 2 FEET INTO CMP. CONTRACTOR SHALL FABRICATE A WATER TIGHT CAP TO SEAL ANNULAR SPACE BETWEEN CMP AND STEEL PIPE.
 7. PRECAST METER VAULT SHALL COME EQUIPPED WITH DROP-IN DOUBLE STEEL DOORS.
 8. FINISHED GRADING SHOWN IS APPROX AND EXST GROUND MAY VARY. CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS TO CATCH EXST GROUND. U.N.O. ALL DISTURBED AREAS SHALL BE REVEGETATED.
 9. INSTALL FOUR (4) JERSEY BARRIERS TO PROTECT OUTER CORNER OF FLOW SPLITTER BOX. END BARRIERS SHALL BE TRANSITION (SLOPED) BARRIERS.



- NOTE**
1. EXTEND RIPRAP CHANNEL 26-FT BEYOND FLOW SPLITTER BOX APRON AT CONSTANT SLOPE TO CATCH EXST CHANNEL.
 2. NATIVE STREAMBED BOULDERS OF EQUAL OR GREATER SIZE THAN TYPE II RIPRAP MAY BE USED FOR OVERFLOW SPILLWAY CHANNEL ARMOR.

OUTLET CHANNEL SECTION
SCALE: 1" = 5'

PLAN
SCALE: 1" = 5'



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

0 1/2 1

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TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
FLOW SPLIT AND INTAKE PLAN

DESIGNED J. WOODBURY
DRAWN J. LAHMOM
CHECKED C. BOYD
ISSUED DATE 03/27/24

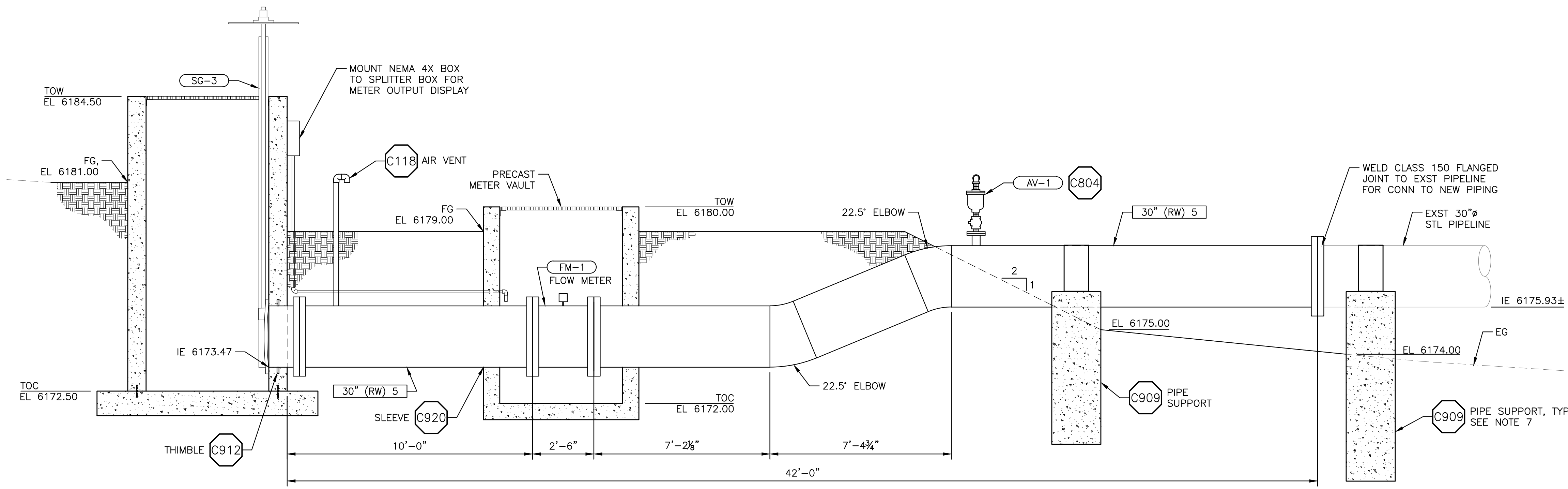


DRAWING
C300
SCALE: AS NOTED

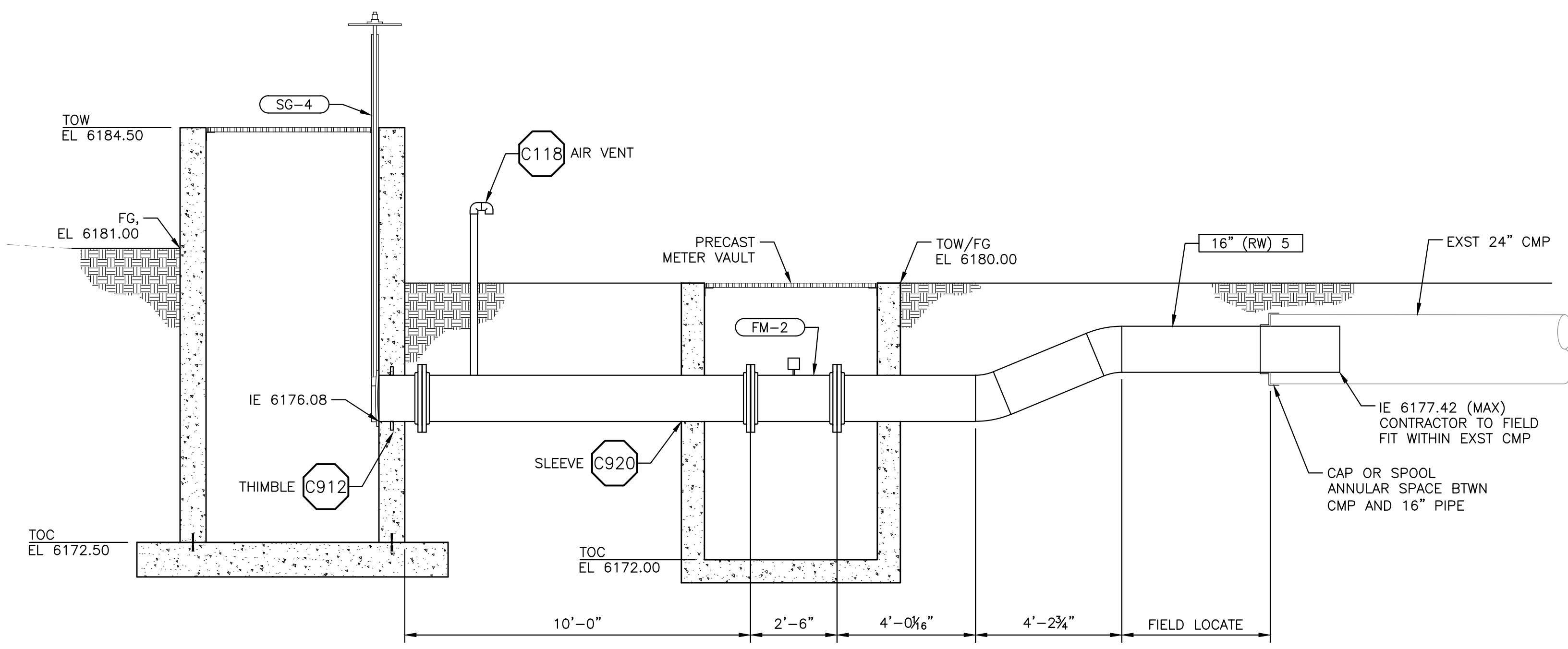
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SHEET NOTES:

1. ALL FLANGED CONNECTIONS SHALL BE CLASS 150 FLANGES.
2. METER VAULT SHALL COME EQUIPPED WITH DROP-IN DOUBLE STEEL DOORS.
3. INSTALL A SINGLE METER DISPLAY WITHIN NEMA 4X BOX FOR BOTH METERS.
4. PER IDAHO DEPARTMENT OF WATER RESOURCES, ELECTROMAGNETIC FLOW METERS SHALL BE INSTALLED IN A STRAIGHT RUN OF PIPE MEASURING A MIN OF 3 PIPE DIAMETERS UPSTREAM AND 2 PIPE DIAMETERS DOWNSTREAM OF THE METER.
5. SEE GC004 FOR EQUIPMENT SCHEDULE.
6. EXST PIPE ELEVATIONS ARE APRX. CONTRACTOR SHALL FIELD VERIFY AND FIELD FIT NEW PIPING AS REQD TO MEET EXST PIPE.
7. 30" Ø PIPE SUPPORTS SHALL BE SPACED NO MORE THAN 12 FEET APART. CONCRETE SHALL EXTEND 2' BELOW FROST DEPTH (32").



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



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



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
FLOW SPLITTER BOX SECTIONS

DESIGNED J. WOODBURY
DRAWN J. LAHMON
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
C301
SCALE: AS NOTED

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GENERAL STRUCTURAL NOTES:

THE FOLLOWING NOTES ARE GENERAL AND APPLY TO THE ENTIRE PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE (UNO)

1) GENERAL:

- A. CONSTRUCTION DOCUMENTS:
 1. THE CONTRACTOR SHALL REVIEW THE APPROVED CONTRACT DOCUMENTS AND NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
 2. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY UNIDENTIFIED EXISTING UNDERGROUND UTILITIES ARE DISCOVERED.
 3. THE STRUCTURAL CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND/OR SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
 4. UNDER NO CIRCUMSTANCES CAN STRUCTURAL COMPONENTS BE SUBSTITUTED, OMITTED, OR ALTERED FROM THE APPROVED SET OF CONSTRUCTION DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- B. DIMENSIONS AND NOTATIONS:
 1. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
 2. ABBREVIATIONS USED ON THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED TYPICAL ABBREVIATIONS FOR THE INDUSTRY. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY ABBREVIATIONS THAT ARE UNKNOWN TO THE CONTRACTOR.
- C. SHOP DRAWINGS:
 1. SHOP DRAWINGS, AS REQUIRED PER THESE STRUCTURAL NOTES, SHALL BE SUBMITTED TO THE ENGINEER IN A TIMELY FASHION PRIOR TO FABRICATION TO ALLOW FOR PROPER REVIEW AS REQUIRED PER SPECIFICATIONS.
 2. SHOP DRAWING ITEMS SHALL NOT BE INSTALLED UNTIL THOSE DOCUMENTS HAVE BEEN APPROVED BY THE ENGINEER.
- D. TYPICAL NOTES AND DETAILS:
 1. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER STANDARD TYPICAL NOTES AND DETAILS.
 2. STANDARD TYPICAL NOTES AND DETAILS ARE TO BE USED WHEN REFERRED TO OR WHEN NO OTHER MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
 3. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
- E. CODE REQUIREMENTS:
 1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
 2. SPECIFICATIONS, CODES AND STANDARDS NOTED SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
 3. MINIMUM UNIFORM (BLANKET) ROOF SNOW LOAD, AS DEFINED BY LOCAL BUILDING OFFICIAL OR STATE, SHALL BE DESIGNED FOR, AND IT IS THE RESPONSIBILITY OF THE MBSS ENGINEER TO CONFIRM IF ONE EXISTS BY CONTACTING THE LOCAL BUILDING OFFICIAL.

2) DESIGN CRITERIA:

- A. CODE:
 1. 2015 INTERNATIONAL BUILDING CODE (IBC)
- B. HYDROSTATIC:
 1. UNIT WEIGHT OF WATER 62.4 PCF
- C. ACCESS CATWALKS:
 1. DEAD LOAD: ACTUAL MAT WEIGHT
 2. LIVE LOAD: 100 PSF

3) FOUNDATIONS AND GEOTECHNICAL:

- A. GEOTECHNICAL DESIGN CRITERIA IS BASED ON THE MINIMUM RECOMMENDATIONS CONTAINED IN THE 2015 IBC, SECTION 1806: VERTICAL FOUNDATION PRESSURE = 2000 PSF
- B. PROOF ROLL EXISTING CUT GRADE WITH VIBRATORY ROLLER.
- C. FOR FROST PROTECTION, THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 42 INCHES MINIMUM BELOW ADJACENT FINISHED GRADE, UNO. (PER GEOTECH REPORT BY TETRA-TECH DATED, JUNE 17, 2008.
- D. STRUCTURAL BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. BRACE WALLS AND PIERS AS REQUIRED DURING BACKFILLING OPERATIONS.

4) NON-SHRINK GROUT:

- A. ALL GROUT WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301, EXCEPT AS MODIFIED BY THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:
- B. STRENGTH SHALL BE AS FOLLOWS: WHEN MIXED AT A FLUID CONSISTENCY (PER ASTM C939) AND TESTED PER ASTM C942.
 1. GROUT MIN COMPRESSIVE 5000 PSI AT 28 DAYS (CLASS I).
 2. GROUT MIN COMPRESSIVE 7500 PSI AT 28 DAYS (CLASS II).
 3. GROUT CLASSES PER APPLICATION, PER SPECIFICATIONS
- C. FORMWORK: DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN FORMWORK TO SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.

5) STRUCTURAL AND MISCELLANEOUS STEEL:

- A. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS.
- B. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
 1. WIDE FLANGE SHAPES A992
 2. CHANNELS, PLATES, ANGLES AND BARS A36
 3. STEEL PIPE A53, GRADE B
 4. HOLLOW STRUCTURAL SECTIONS A500, GRADE B
- C. WELDS: PROVIDE 70ksi LOW HYDROGEN ELECTRODE OR PROCESS IN ACCORDANCE WITH AWS A5.1.
- D. BOLTS, U.N.O.:
 1. GALVANIZED: A325-N, HOT DIPPED GALVANIZED
 2. STAINLESS STEEL: ASTM A193, GRADE 8, CLASS 2, AISI TYPE 316
- E. DRILL AND EPOXY ANCHOR BOLTS:
 1. STAINLESS STEEL TYPE 316 OR EQUAL APPROVED BY ENGINEER
- F. EPOXY BOLT OR EXPANSION BOLT SUBSTITUTIONS FOR EMBEDDED BOLTS IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE ENGINEER.
- G. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- H. ALL STAINLESS STEEL SHALL BE TYPE 304 OR 316.
- I. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- J. GALVANC PROTECTION SHALL BE PROVIDED BETWEEN DISSIMILAR METALS.
- K. GRATING:
 1. ALL GRATING SHALL BE GALVANIZED STEEL.
 2. ALL ENDS AND OPENINGS SHALL BE BANDED.
 3. WEIGHT OF GRATING SECTION SHALL NOT EXCEED 80 LBS.
 4. USE STEEL ANGLE SUPPORTS, BOLTS AND CLIPS. GALVANIZED AFTER FABRICATION.

6) CONCRETE:

- A. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:
- B. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
- C. CONCRETE MIX DESIGN SHALL BE ESTABLISHED IN ACCORDANCE WITH CHAPTER 5 OF ACI 350.
- D. APPROVED ADMIXTURES:
 1. FLYASH PER ASTM C-618
 2. AIR ENTRAINING PER ASTM C-260
 3. WATER REDUCING PER ASTM C-494
- E. COMPRESSIVE STRENGTH (28 DAYS)

MAXIMUM f'c	4,500 PSI
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- F. REINFORCEMENT FOR CONCRETE:
 1. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE"
 - a) DEFORMED BARS - ASTM A615, GRADE 60
 2. CAST-IN-PLACE CONCRETE
 - a) CONCRETE CAST AGAINST EARTH = 3"
 - b) ALL OTHER CONCRETE = 2"
- G. MINIMUM CONCRETE COVER OVER REINFORCEMENT FOR HYDRAULIC AND ENVIRONMENTAL STRUCTURES:
 1. CAST-IN-PLACE CONCRETE
 - a) CONCRETE CAST AGAINST EARTH = 3"
 - b) ALL OTHER CONCRETE = 2"
- H. SLAB-ON-GRADE REINFORCEMENT SHALL BE PLACED AT THE MID-DEPTH OF THE SLAB, UNO.
- I. FORMWORK: DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN FORMWORK TO SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.
- J. THE DESIGN OF THE PRECAST CONCRETE IS BY THE PRECAST WATER TANK SUPPLIER, AND SHALL COMPLY WITH ACI 350.
 1. THE TANK SHALL RESIST THE FOLLOWING LOADS/CRITERIA:
 - a) DEAD WEIGHT OF CONC PER PRECAST SUPPLIER DESIGN.
 - b) LIVE LOAD 100 PSF
 2. MAX DEFLECTION: SPAN/360
- K. CAST-IN-PLACE CONCRETE SHALL BE TYPE "SR" PER SPECIFICATIONS SECTION 03 30 00 (CAST-IN-PLACE CONCRETE).

7) ALUMINUM:

- A. ALL ALUMINUM WORK SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM DESIGN MANUAL BY THE ALUMINUM ASSOCIATION.
- B. UNLESS OTHERWISE INDICATED, ALUMINUM METALWORK SHALL BE FABRICATED FROM ALLOY 6061-T6, EXCEPT GRATING WHICH SHALL BE PER DESIGN.
- C. ALUMINUM IN CONCRETE WITH CONCRETE, MASONRY, WOOD, POROUS MATERIALS OR DISSIMILAR METALS SHALL HAVE CONTACT SURFACES COATED WITH:
 - a) AMERCOAT 351
 - b) SHERWIN WILLIAMS MACROPOXY 646
 - c) TNE MEC EPOXOLINE 80
 - d) OR APPROVED EQUAL

8) REINFORCEMENT:

- A. ASTM A615 - FY = 60,000 PSI
- B. SEE SPECIFICATIONS FOR REINFORCING PLACEMENT REQUIREMENTS.
- C. ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER.
- D. ALL REBAR TO BE EPOXY COATED.

6) STOP LOGS:

- A. CONTRACTOR SHALL SUPPLY STOP LOGS FOR DIVERSION STRUCTURE.
- B. STOP LOGS SHALL BE CUT FROM GRADE 1 REDWOOD OR DOUGLAS FIR.
- C. WOOD SHALL BE FREE OF KNOTS OR OTHER DEFECTS.
- D. STOP LOG SHALL BE CUT TO FIT GUIDE SLOTS WITH A HEIGHT OF 6 INCHES OR TO THE APPROVAL OF THE OWNER.
- E. STOP LOGS IN DIVERSION STRUCTURE SHALL BE NOMINAL 4" THICK SO THAT THE HORIZONTAL DIMENSION OF INSTALLED STOP LOGS IS 4" NOMINAL (~3 1/2" ACTUAL).

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION DATED REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

GENERAL STRUCTURAL NOTES

DESIGNED G. HORECZY

DRAWN J. LAHMOM

CHECKED C. BOYD

ISSUED DATE 03/27/24

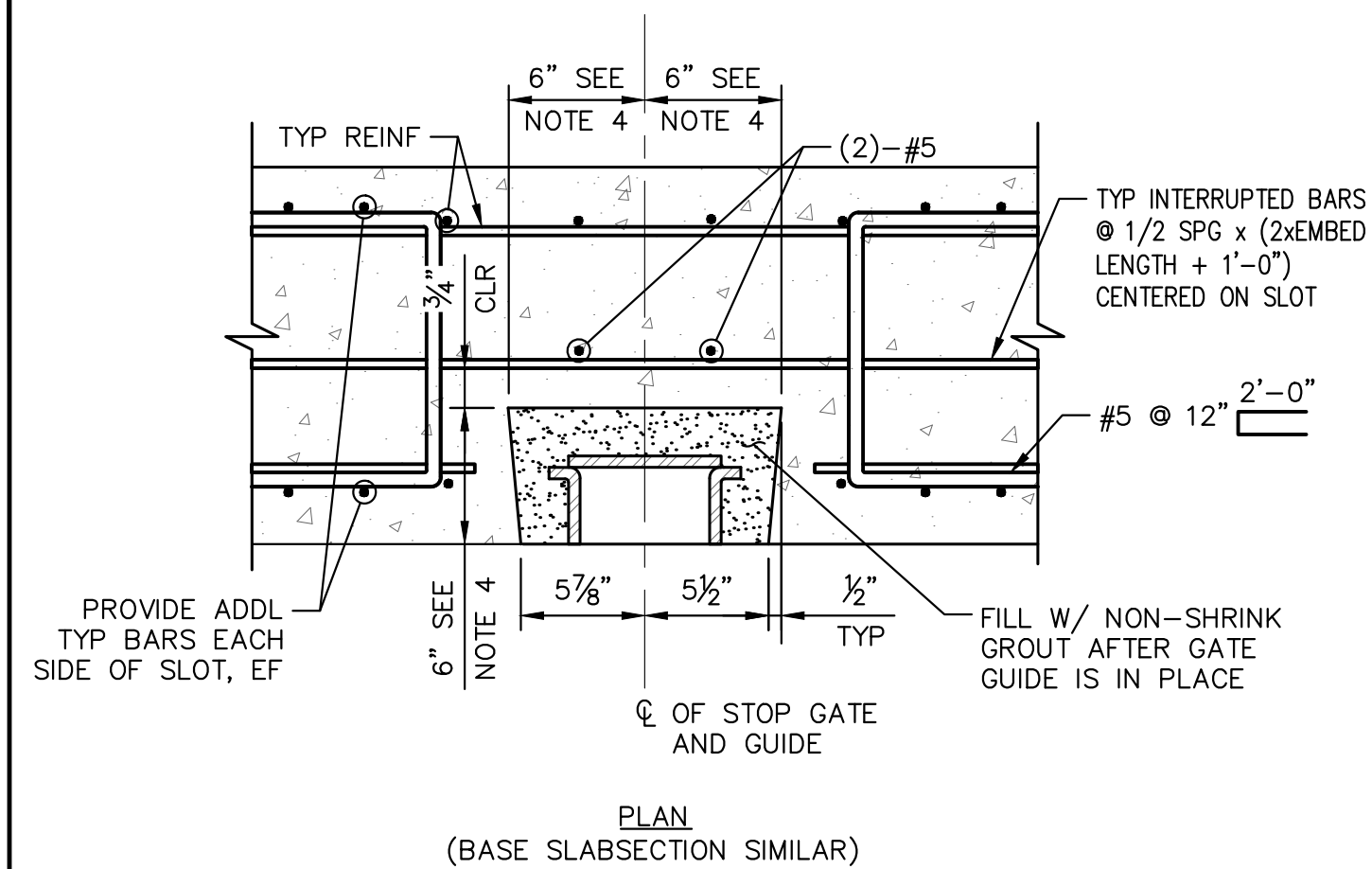


DRAWING

GS001

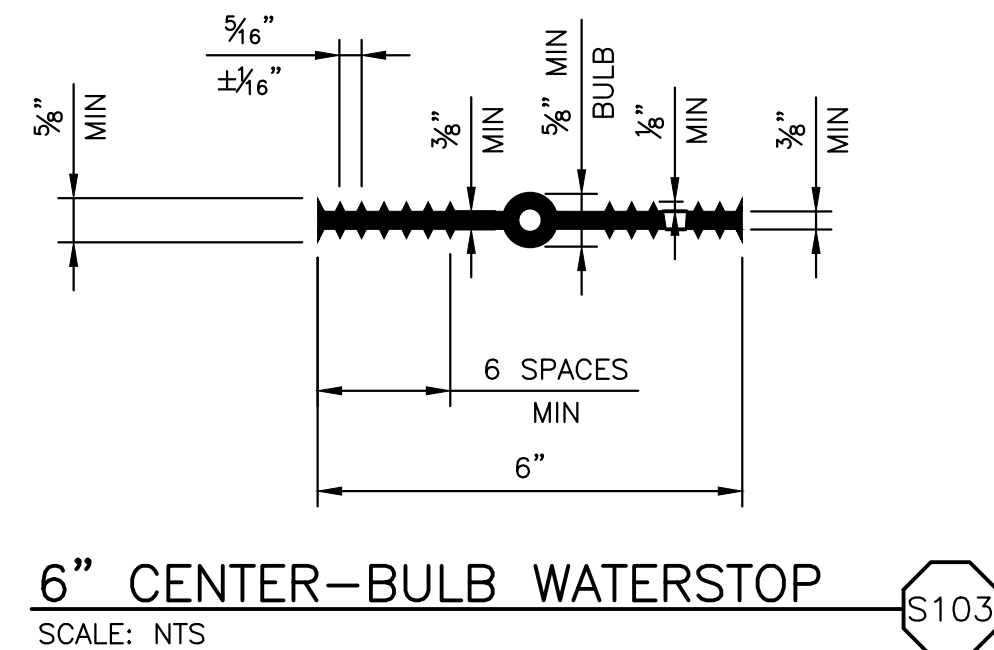
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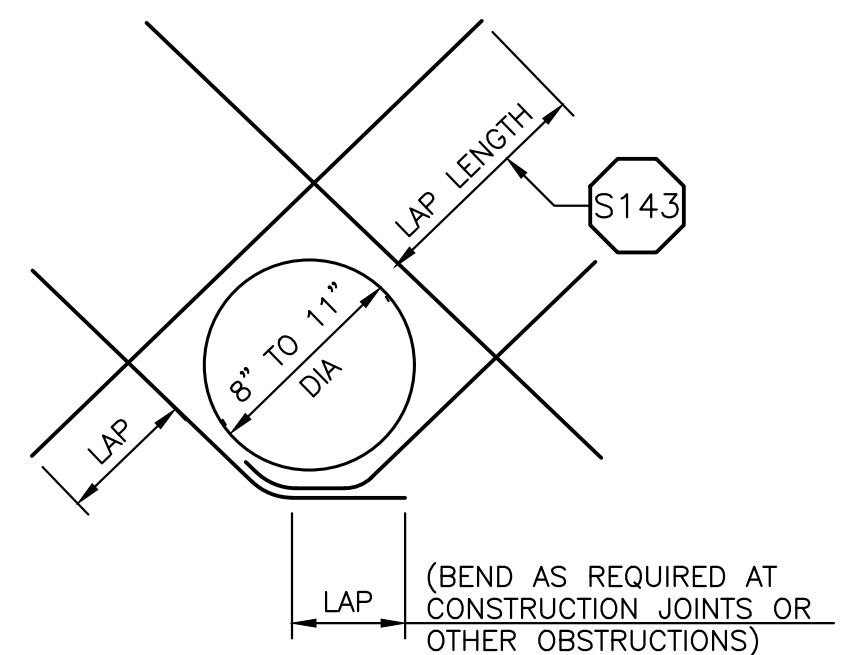


- NOTES:**
1. FLUSH BLOCK-OUT TYPICAL UNLESS OTHERWISE NOTED OR SHOWN ON PLANS.
 2. REINFORCEMENT DETAILS ARE FOR BLOCK-OUT AT STRAIGHT RUN WALL. MODIFY TO FIT CONDITIONS OF WALL SHOWN ON PLANS.
 3. WALL BLOCK-OUT SHOWN. BLOCK-OUT CONTINUES THROUGH CHANNEL BASE SLAB. REINFORCE BASE SLAB SIMILARLY.
 4. VERIFY WITH MANUFACTURER.

BLOCKOUT FOR STOPLOG OR GATE GUIDE
SCALE: NTS

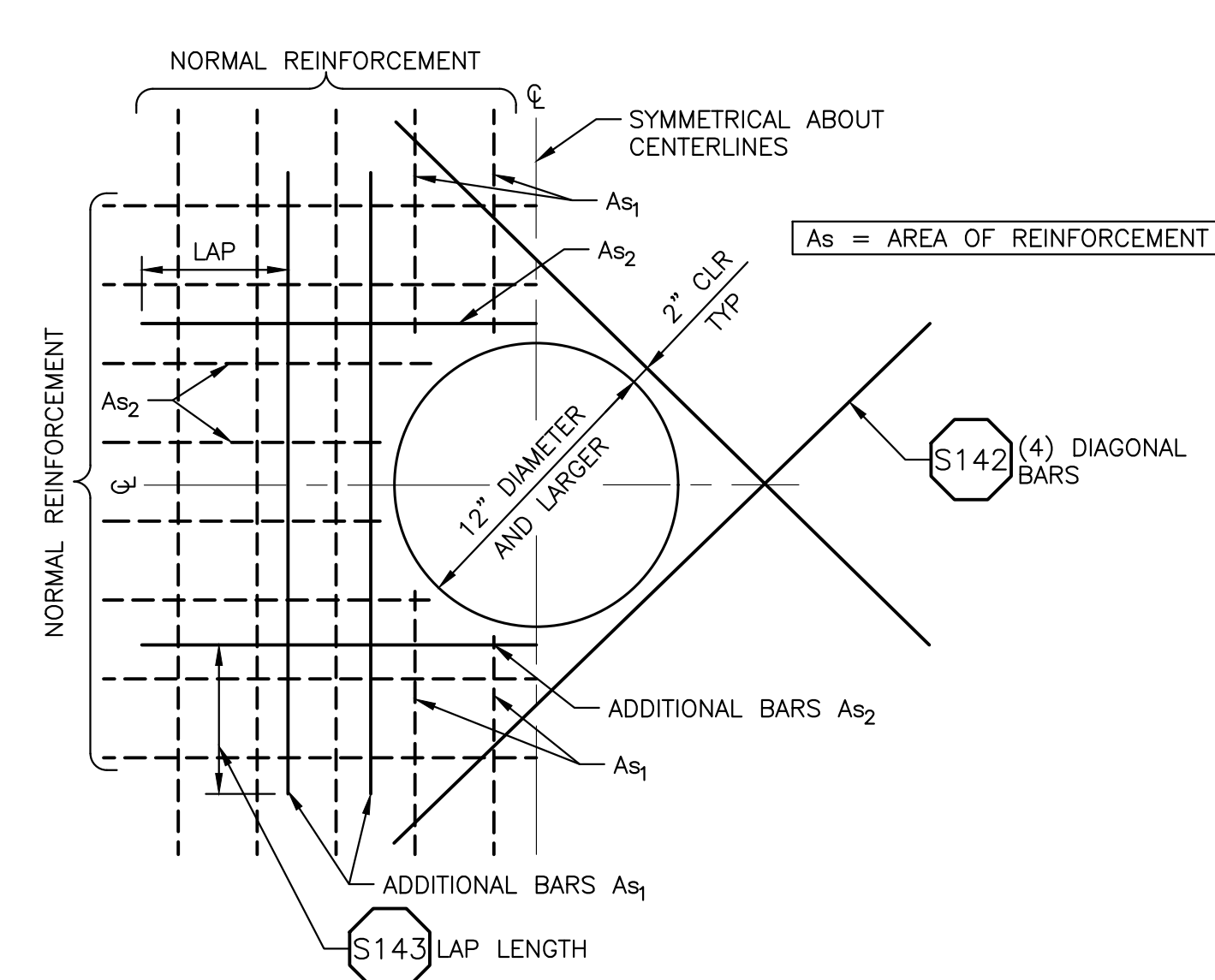


6" CENTER-BULB WATERSTOP
SCALE: NTS



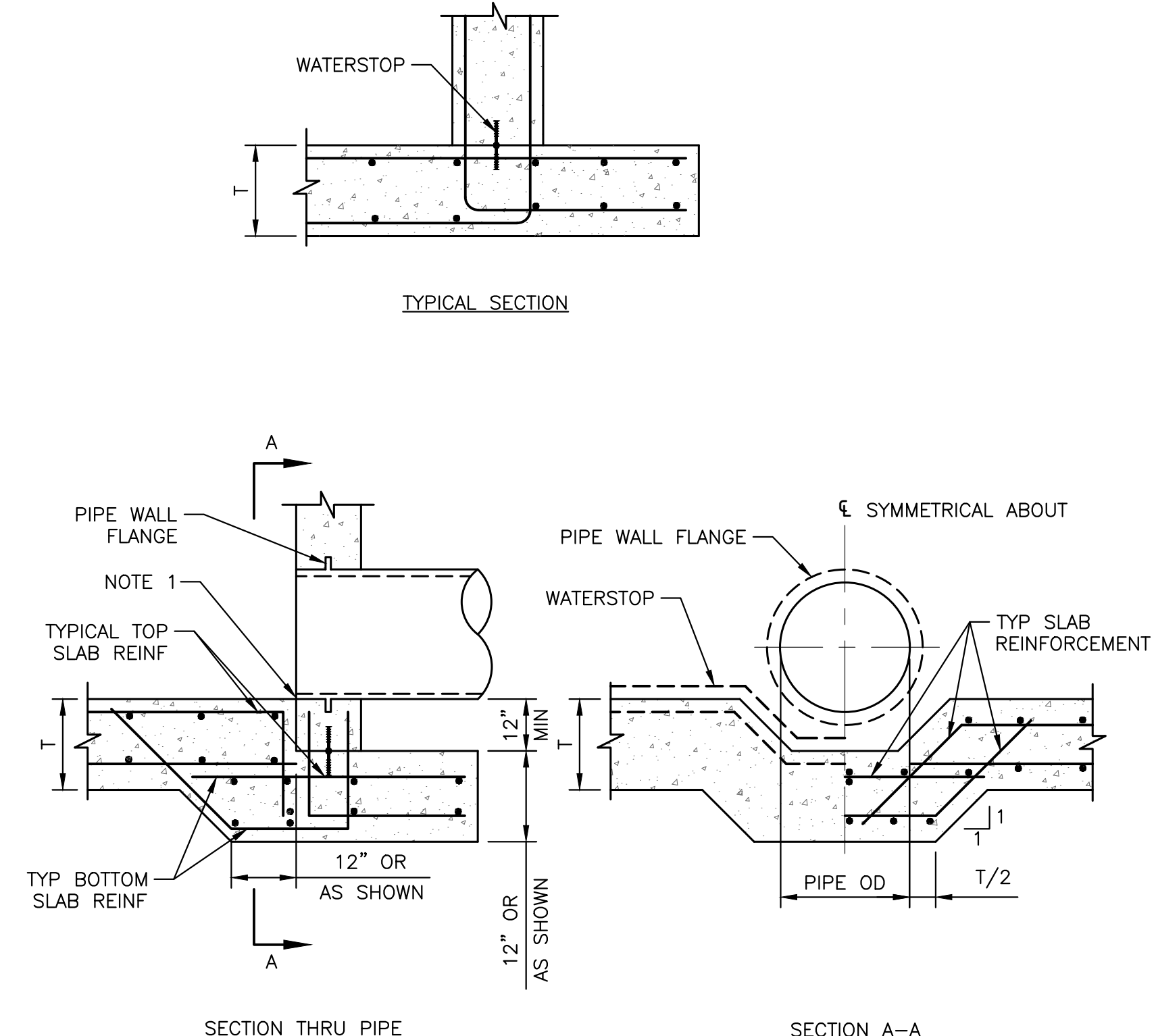
- NOTES:**
1. CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING.
 2. DIAGONAL BARS TO BE PLACED:
 - A. AT CENTERLINE OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
 - B. AT EACH FACE OF WALL OR SLAB WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
 3. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.
 4. THIS DETAIL TO BE USED WHEN CALLED FOR ON THE DRAWINGS OR WHEN NO OTHER DETAIL IS SPECIFIED.

DIAGONAL REINF AT CIRCULAR OPENINGS
SCALE: NTS



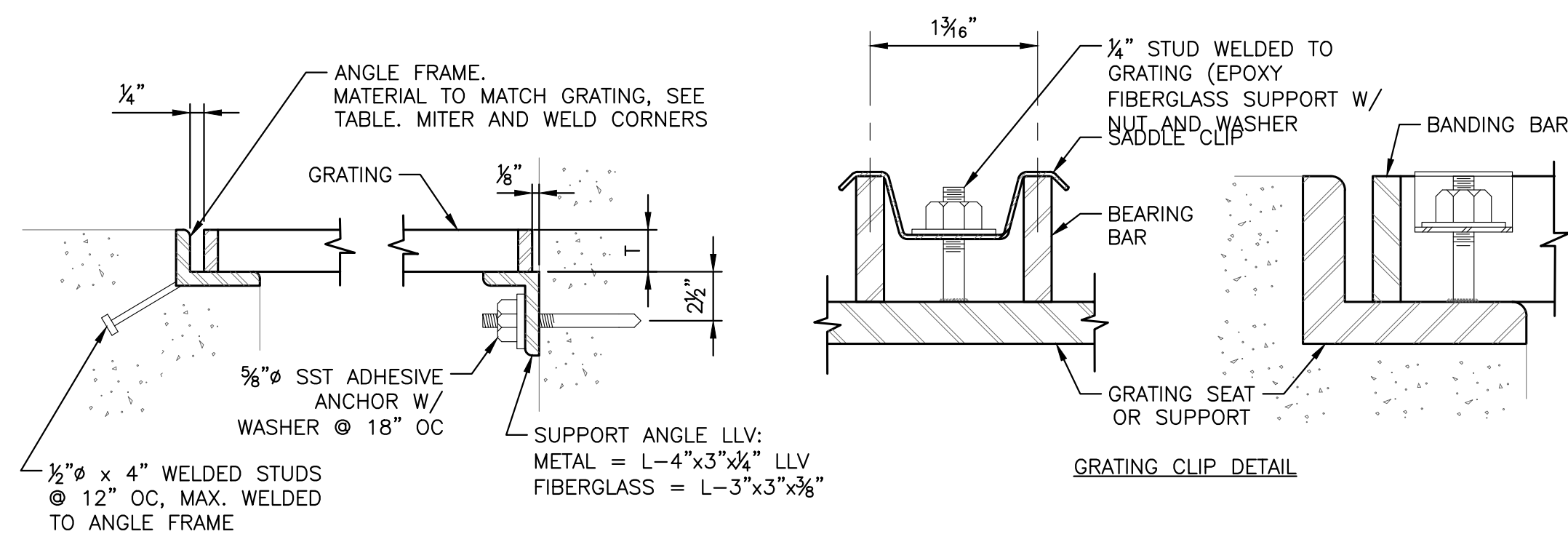
- NOTES:**
1. CUT NORMAL REINFORCEMENT AT OPENINGS: A_{s1} AND $A_{s2} = \frac{1}{2}$ AREA OF CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
 2. ADDITIONAL BARS A_{s1} AND A_{s2} TO BE PLACED:
 - A. AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
 - B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
 3. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2 X WALL/SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS.
 4. THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS.
 5. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENINGS, ADDITIONAL BARS ON THAT SIDE MAY BE OMITTED.

ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS (12" DIA OR LARGER)
SCALE: NTS

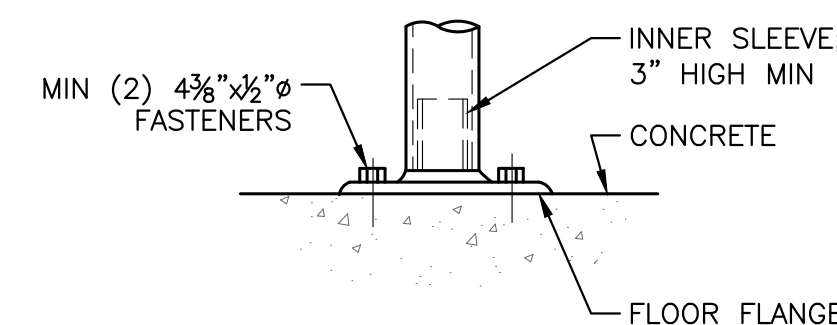


- NOTES:**
1. SET PIPE INVERT FLUSH WITH SLAB.
 2. DETAIL IS SIMILAR FOR RCP.

FOOTING AT WALL PIPE CONNECTION
SCALE: NTS

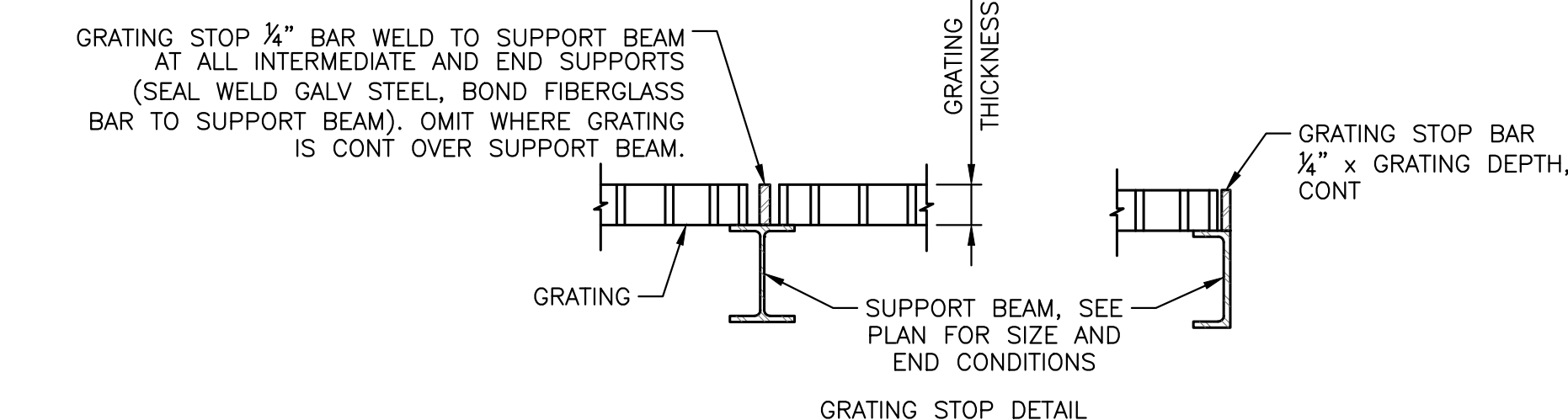


- NOTES:**
1. UNLESS INDICATED OTHERWISE, ALL GRATING SHALL BE GALV. ST.
 2. GRATING DEPTH TO BE DETERMINED BY MANUFACTURER AND APPROVED BY ENGINEER, UNO.
 3. ALL ENDS AND OPENINGS SHALL BE BANDED.
 4. WEIGHT OF GRATING SECTION SHALL NOT EXCEED 80 LBS.
 5. METAL BEARING BARS SHALL BE DEPTH $T \times \frac{3}{16}$ " @ $1\frac{1}{16}$ " OC. CROSS BARS SHALL BE @ 4" OC.
 6. PROVIDE A MINIMUM OF 4 CLIPS PER GRATING PANEL, APPROX 4" FROM PANEL CORNERS. MAXIMUM CLIP SPACING AT 36" OC.
 7. MATERIALS:
 - A. ALUM GRATING - USE ALUM ANGLE SUPPORTS AND SST BOLTS AND CLIPS. ALUM IN CONTACT WITH CONC SHALL BE COATED PER THE PROTECTIVE COATING SPECS.
 - B. GALV STEEL GRATING - USE STEEL ANGLE SUPPORTS, BOLTS AND CLIPS. GALV AFTER FABRICATION.
 - C. SST GRATING - USE SST ANGLE SUPPORTS, BOLTS AND CLIPS.
 - D. FIBERGLASS GRATING - USE FIBERGLASS FOR ALL COMPONENTS EXCEPT DRILLED ANCHORS; ALL CUT EDGES SHALL BE SEALED WITH RESIN; BONDING: USE EPOXY ADHESIVE BONDING AGENT.



- NOTES:**
1. IF FASTENING TO CONCRETE, FASTENERS SHALL BE ADHESIVE ANCHORS, OR APPROVED EQUAL.
 2. CONTRACTOR REQUIRED TO DESIGN RAILING SYSTEM PER SPECIFICATIONS.

RAILING, GUARDRAIL AND HANDRAIL SUPPORT DETAIL
SCALE: NTS



GRATING FRAME TABLE SIZED TO MATCH GRATING (FOR FIBERGLASS USE CONTINUOUS PROTRUDED FIBERGLASS SEAT & ANCHOR)			
GRATING DEPTH (T)	STEEL ANGLE (STEEL)	GRATING DEPTH (T)	STEEL ANGLE (STEEL)
1"	1 3/4 x 1 1/4 x 1/4 (1 1/4 x 1 1/4 x 1/4)	2"	*2 1/2 x 2 1/2 x 1/2
1 1/4"	2 x 1 1/2 x 1/4 (1 1/2 x 1 1/2 x 1/4)	2 1/4"	2 1/2 x 2 1/2 x 1/4
1 1/2"	1 3/4 x 1 3/4 x 1/4	2 1/2"	3 x 3 x 1/2
1 3/4"	2 x 2 x 1/4		

* OR USE 2 1/2" x 2 1/2" x 1/4" W/ 1/4" SHIM PLATE WELDED TO BOTTOM

GRATING
SCALE: NTS

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

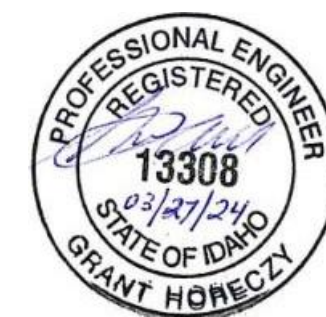


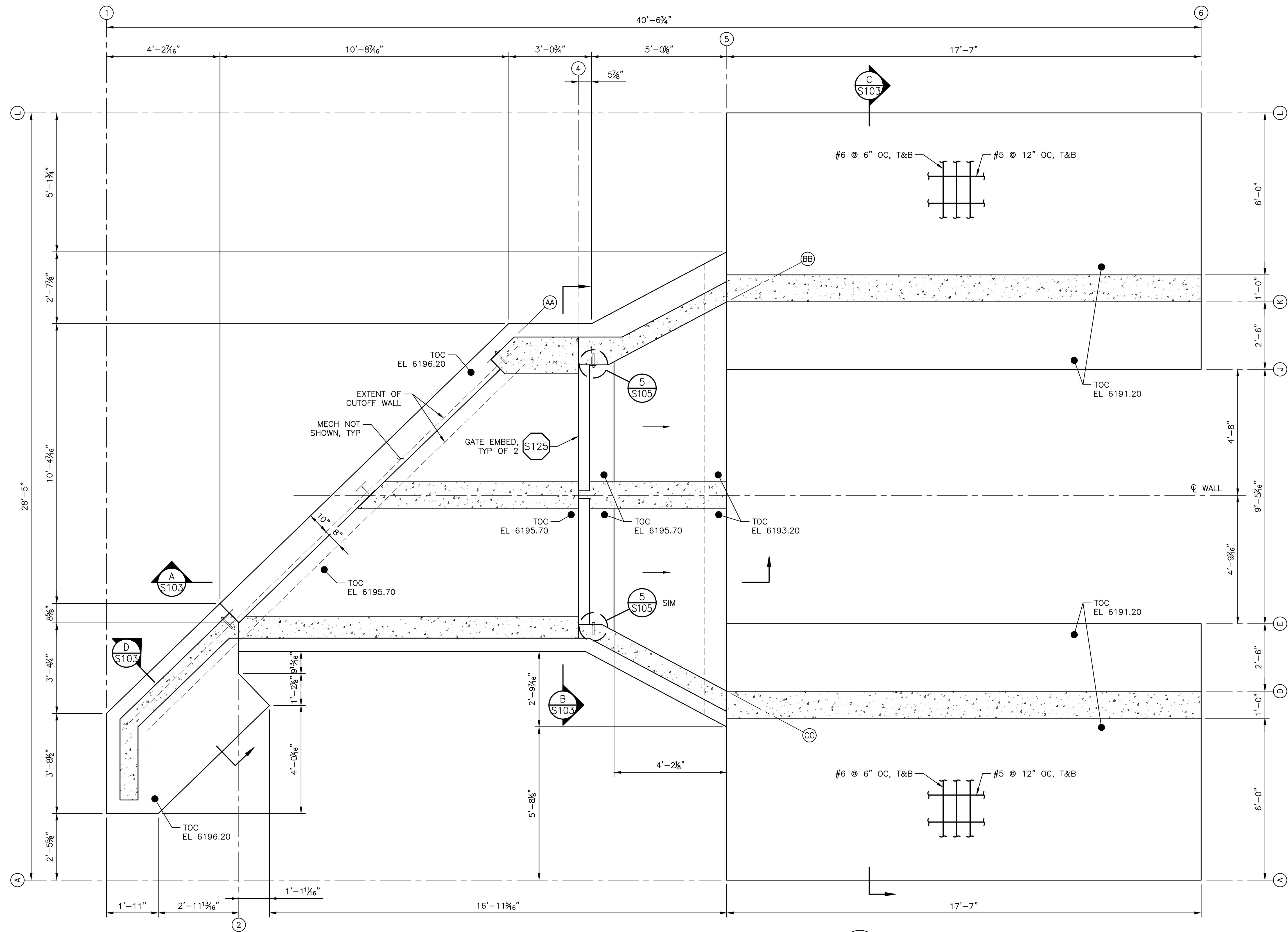
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
STANDARD STRUCTURAL DETAILS

DESIGNED G. HORECZY
DRAWN J. LAHMOM
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
GS002
SCALE: AS NOTED





DIVERSION STRUCTURE FLOOR PLAN
 SCALE: 1/2" = 1'-0"



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
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TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DIVERSION STRUCTURE FLOOR PLAN

DESIGNED G. HORECZY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24

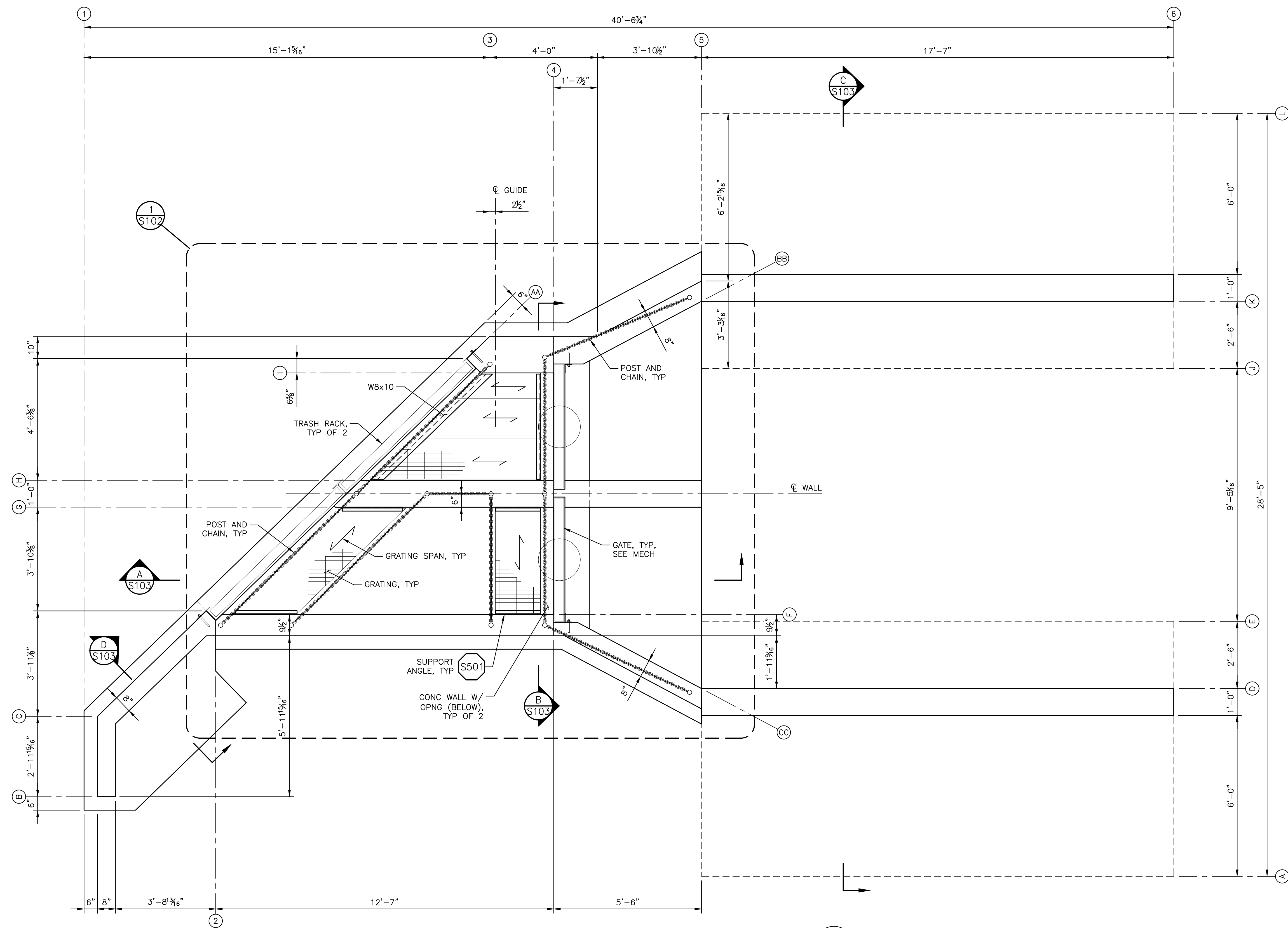


DRAWING
S100
 SCALE: AS NOTED

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SHEET NOTES:

1. GRATING SHALL BE McNICHOLO SERRATED GALV GW-150A; 19-W-4 OR APPROVED EQUAL
 2. POST AND CHAIN PER SECTION A/S301.
- POST: 1½"Ø, SCH 40 PIPE, GALV STEEL.
 CHAIN: CONTRACTOR TO SUPPLY AND INSTALL TO SATISFACTION OF THE OWNER; GALV STEEL.
 ASSOCIATED HARDWARE: GALV STEEL
 BASE FASTENERS: SIM TO DETAIL S512, EMBED ¾" MIN; MAINTAIN EDGE DISTANCE OF 3" MIN WITH FACE OF CONC WALL.



DIVERSION STRUCTURE TOP PLAN
 SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
 0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DIVERSION STRUCTURE TOP PLAN

DESIGNED G. HORECZY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24

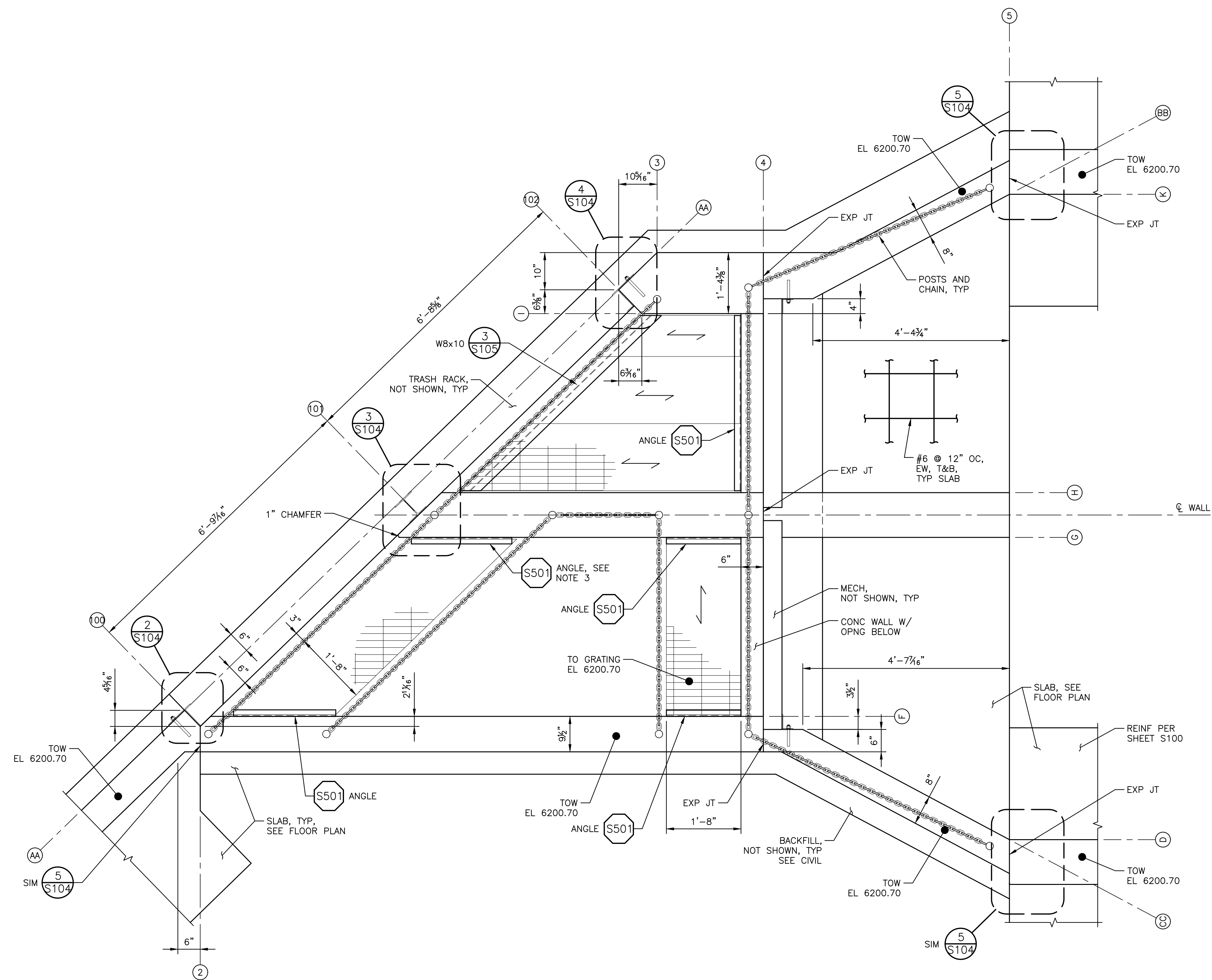


DRAWING
S101
 SCALE: AS NOTED

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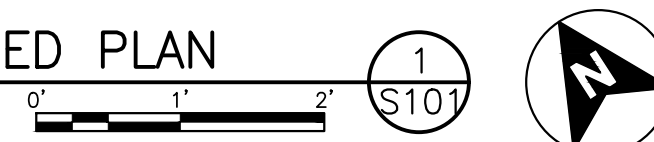
SHEET NOTES:

1. GRATING SHALL BE McNICHOLO SERRATED GALV GW-100; 19-W-4 OR APPROVED EQUAL
2. GRATING SHALL BE CONNECTED TO SUPPORTING ELEMENTS PER STANDARD DETAILS, SO THAT NO GRATING IS LOOSE AND FREE TO MOVE.
3. GRATING SUPPORT ANGLE LENGTH AS REQD TO SUPPORT FULL WIDTH OF GRATING.



DIVERSION STRUCTURE ENLARGED PLAN

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



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



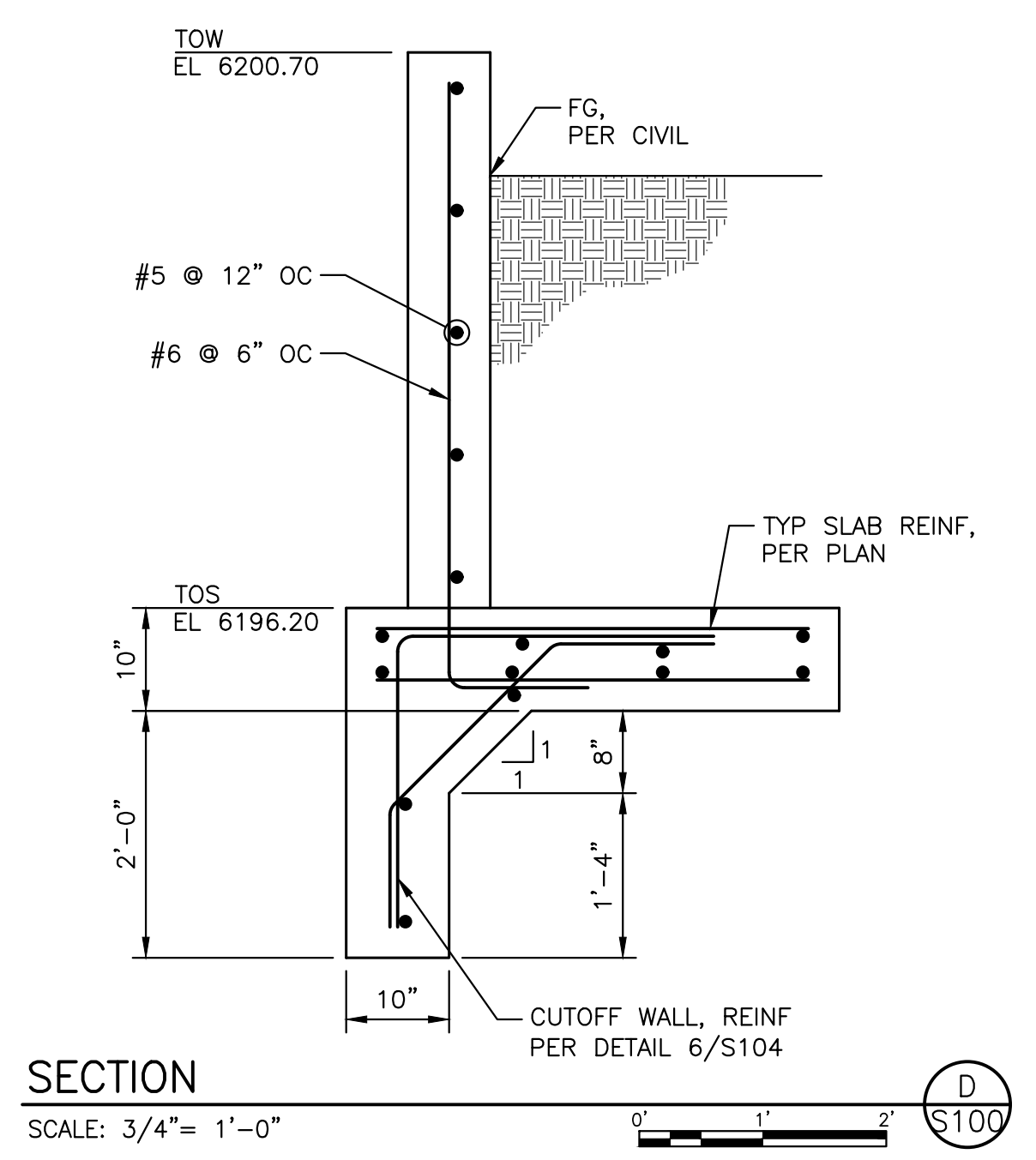
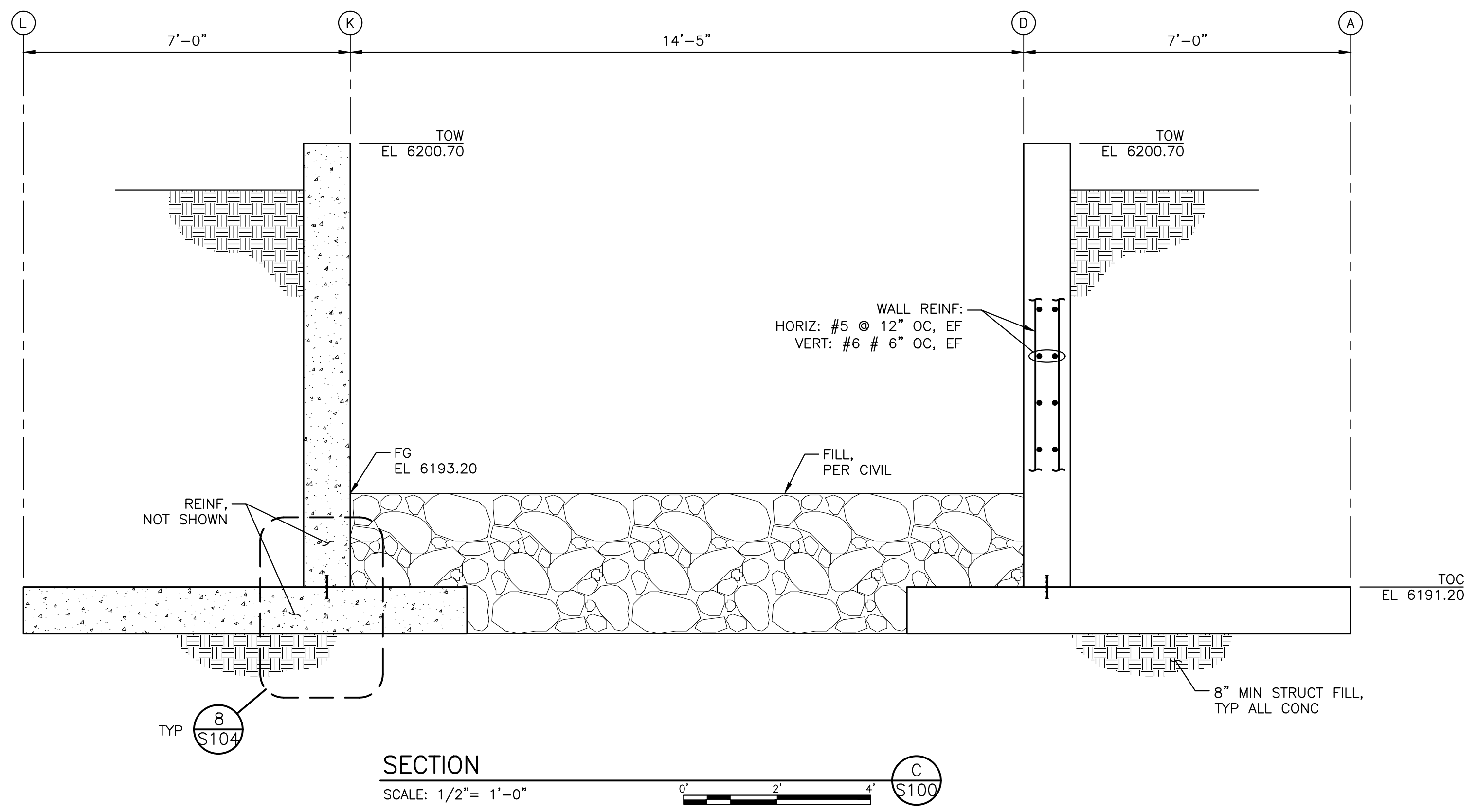
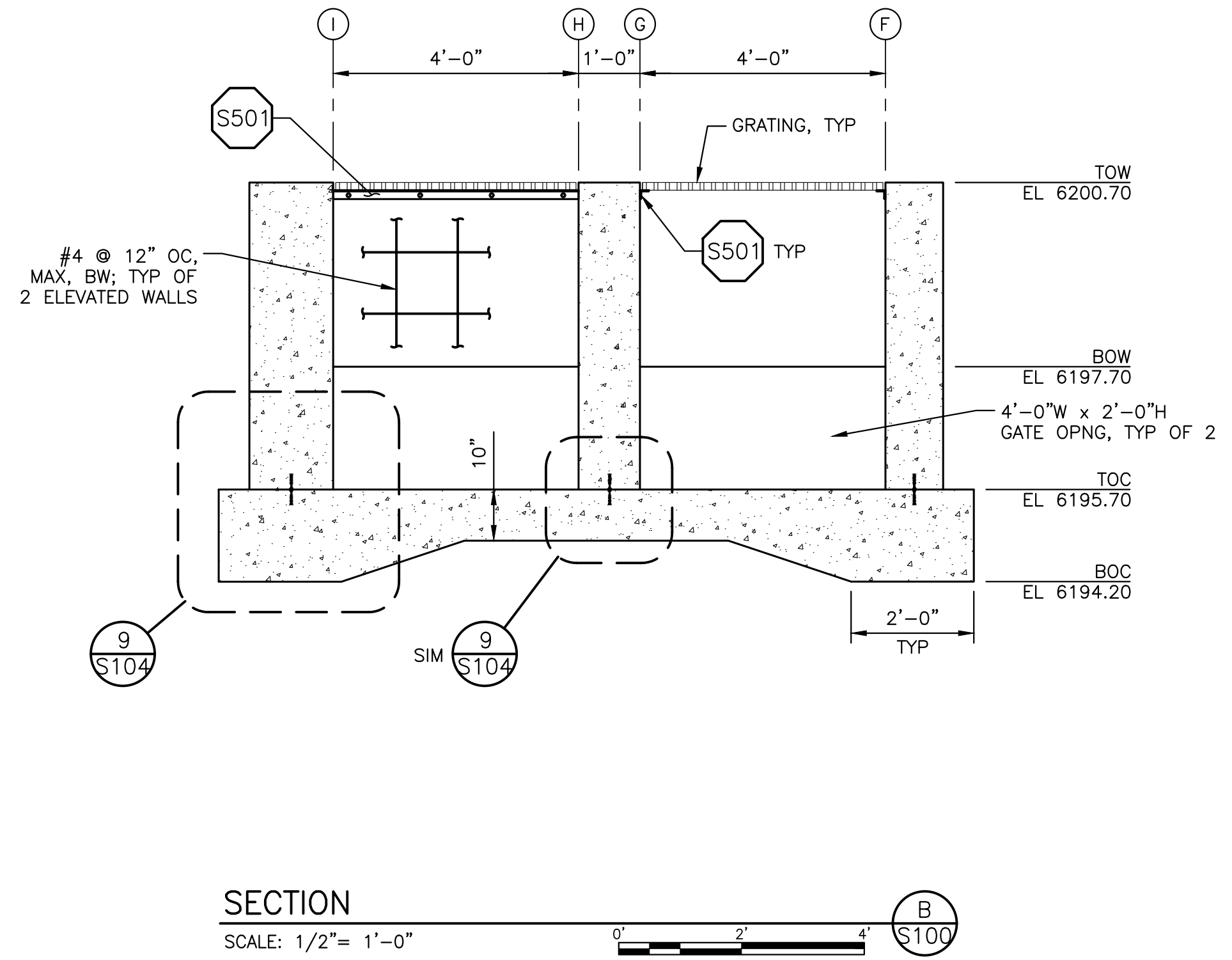
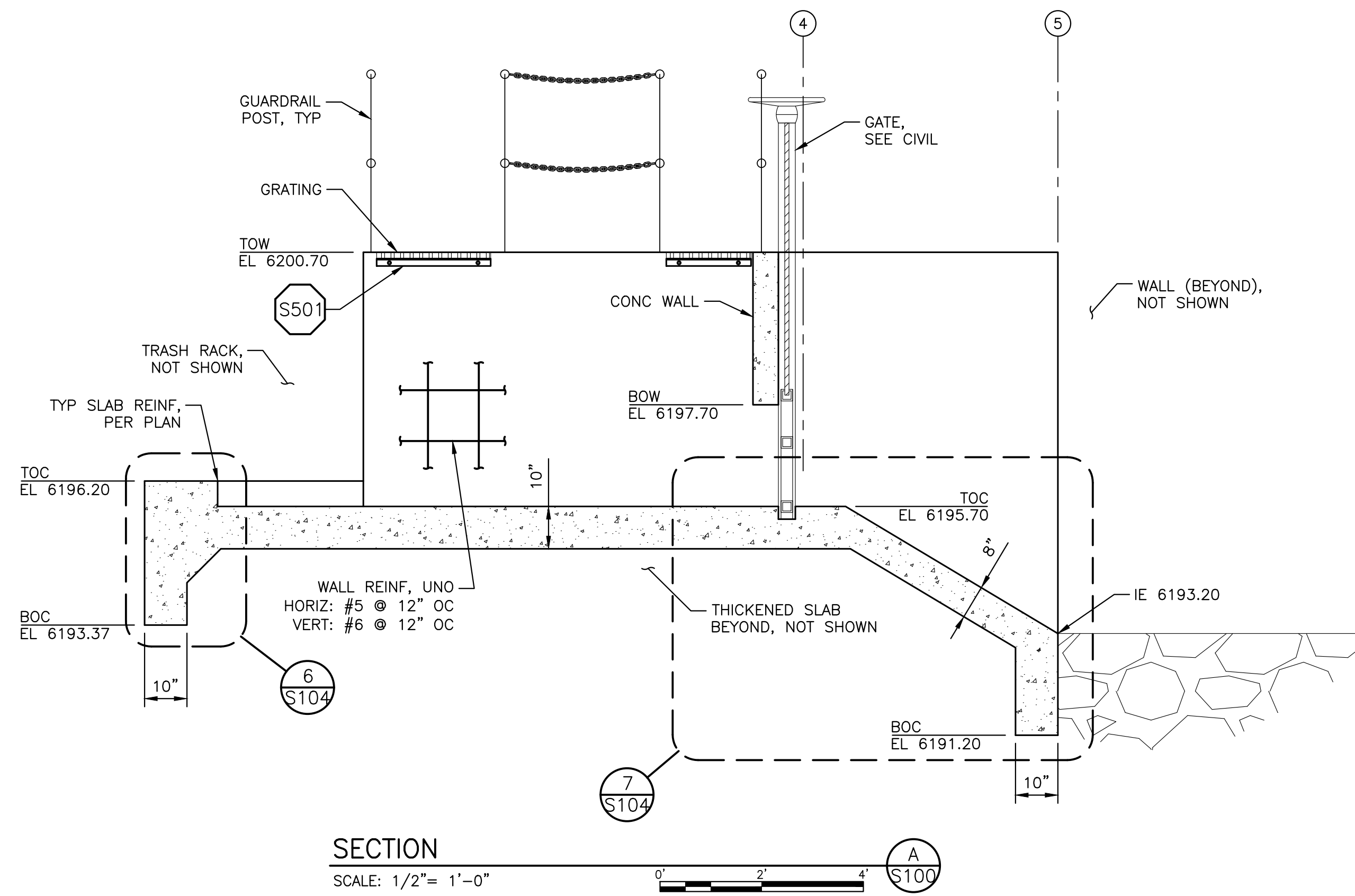
TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DIVERSION STRUCTURE ENLARGED PLAN

DESIGNED G. HORECZY
 DRAWN J. LAHMON
 CHECKED C. BOYD
 ISSUED DATE 03/27/24



DRAWING
S102
 SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\2201 - Paris Creek Diversion\4 - Design\1 CAD\xxxxx.S102.dwg Plot date: Mar 26, 2024 04:00pm, CAD User: User



REV	DATE	BY	DESCRIPTION
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1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

DIVERSION STRUCTURE SECTIONS

DESIGNED G. HORECZY
DRAWN J. LAHMOM
CHECKED C. BOYD
ISSUED DATE 03/27/24

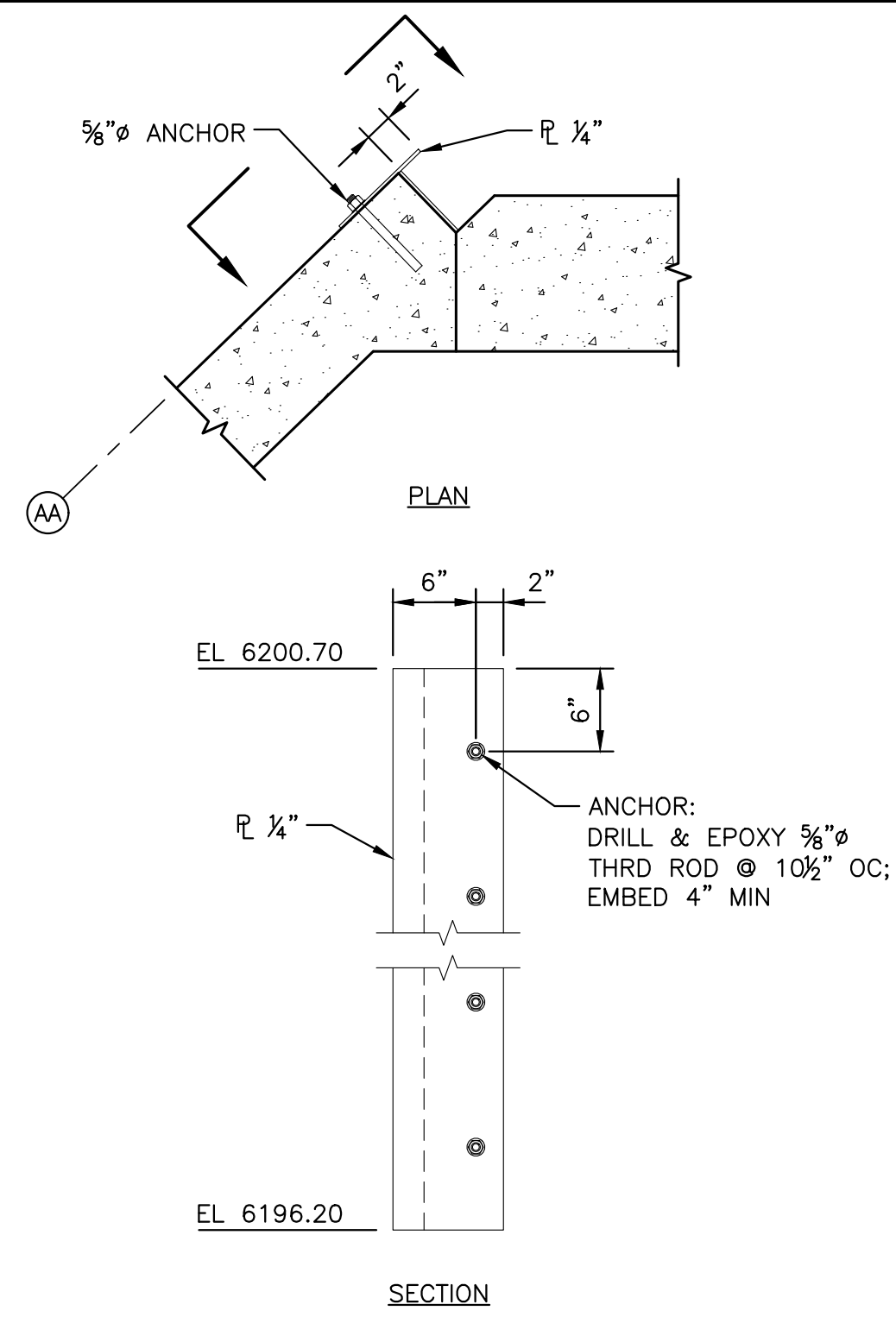


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S103
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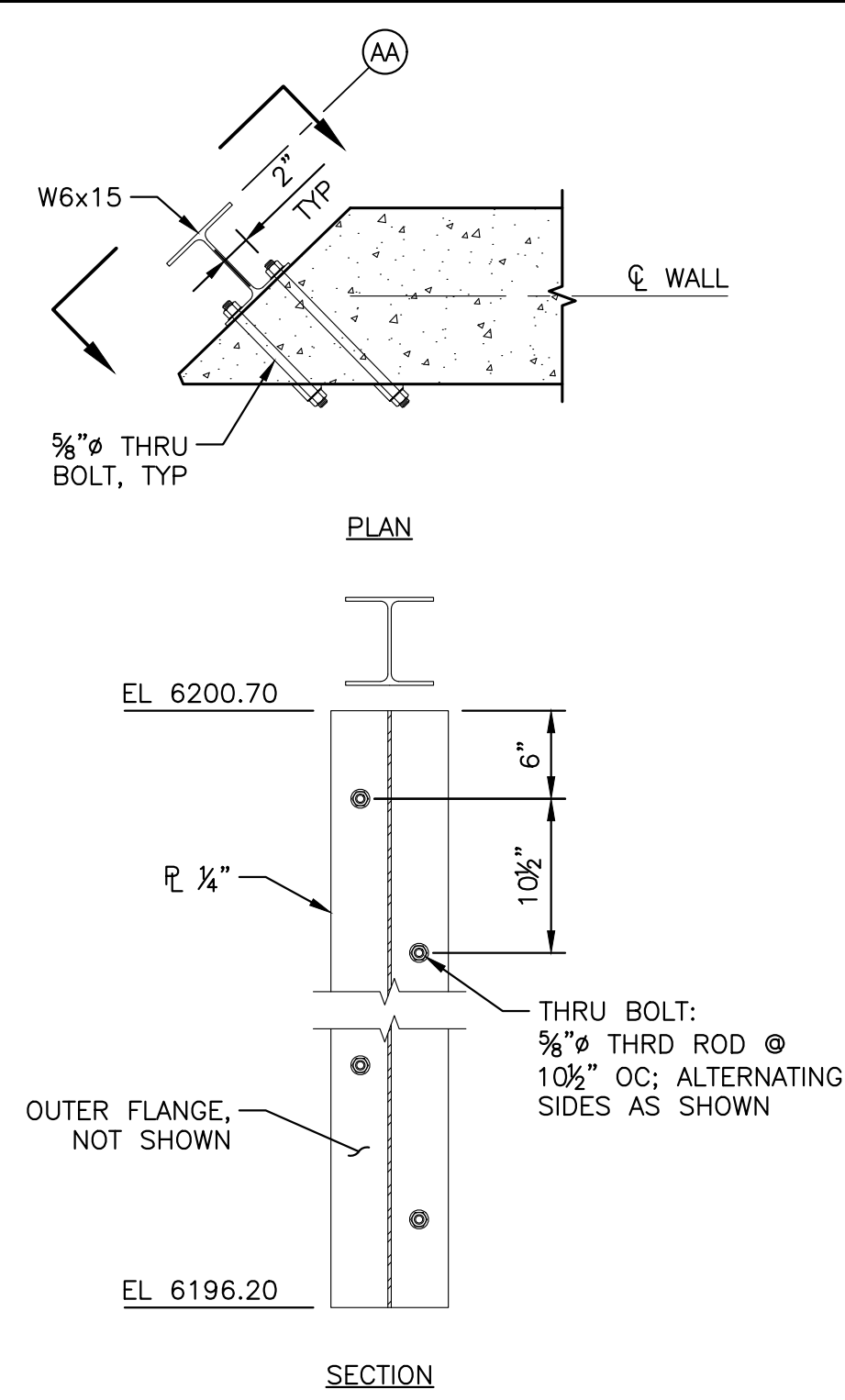
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SHEET NOTES:

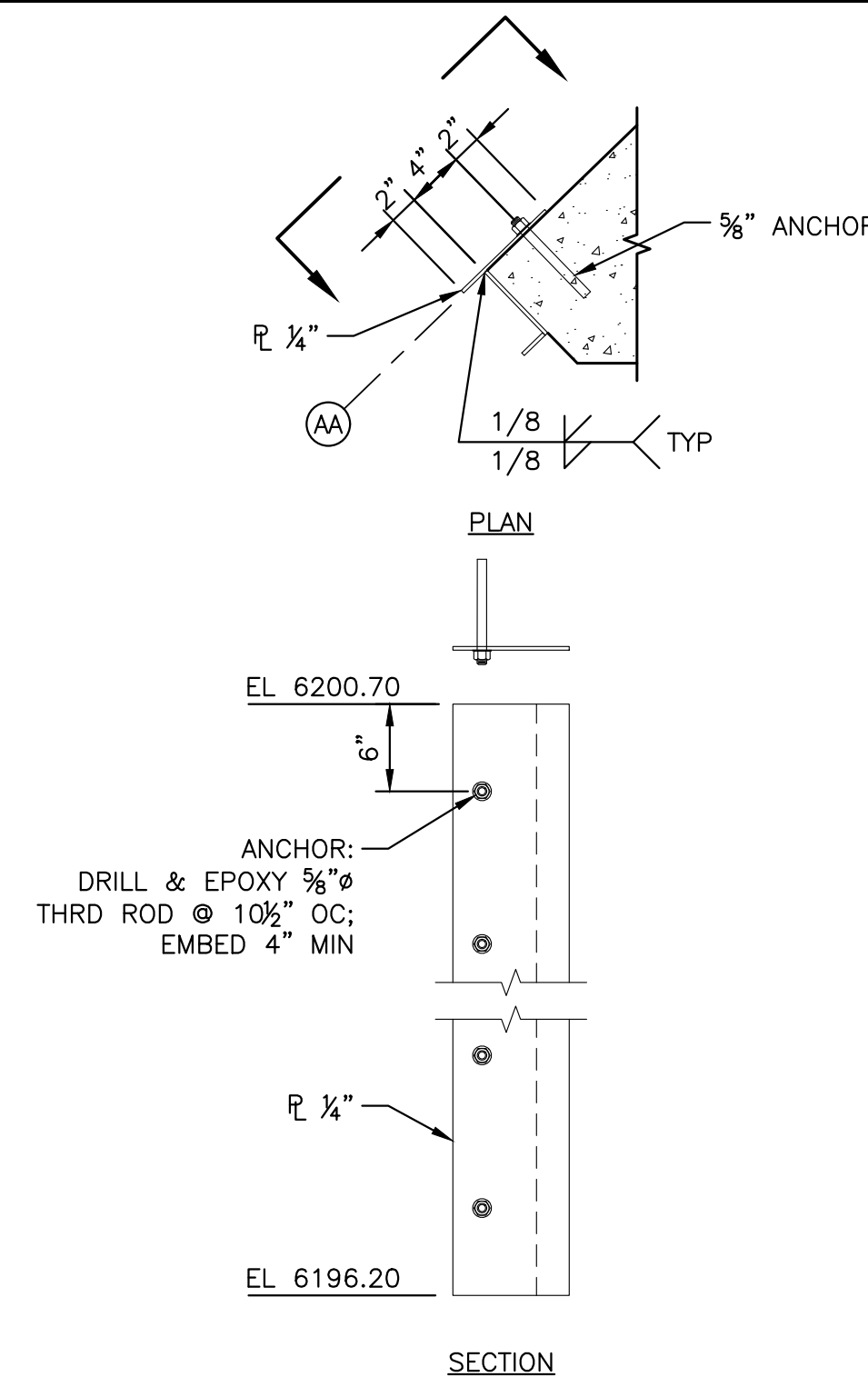
1. ALL STEEL FABRICATIONS THIS SHEET SHALL BE HOT-DIPPED GALVANIZED, UNO.



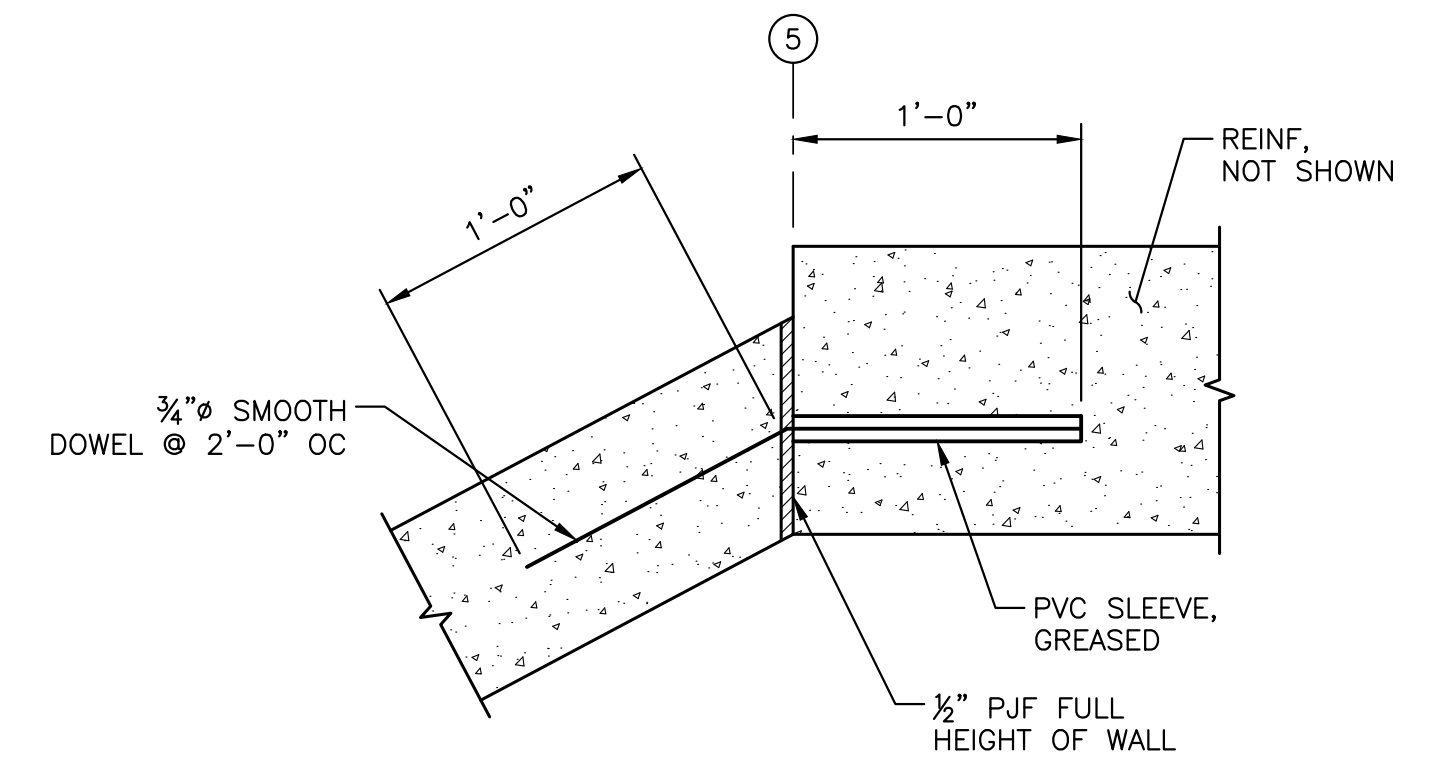
DETAIL 2
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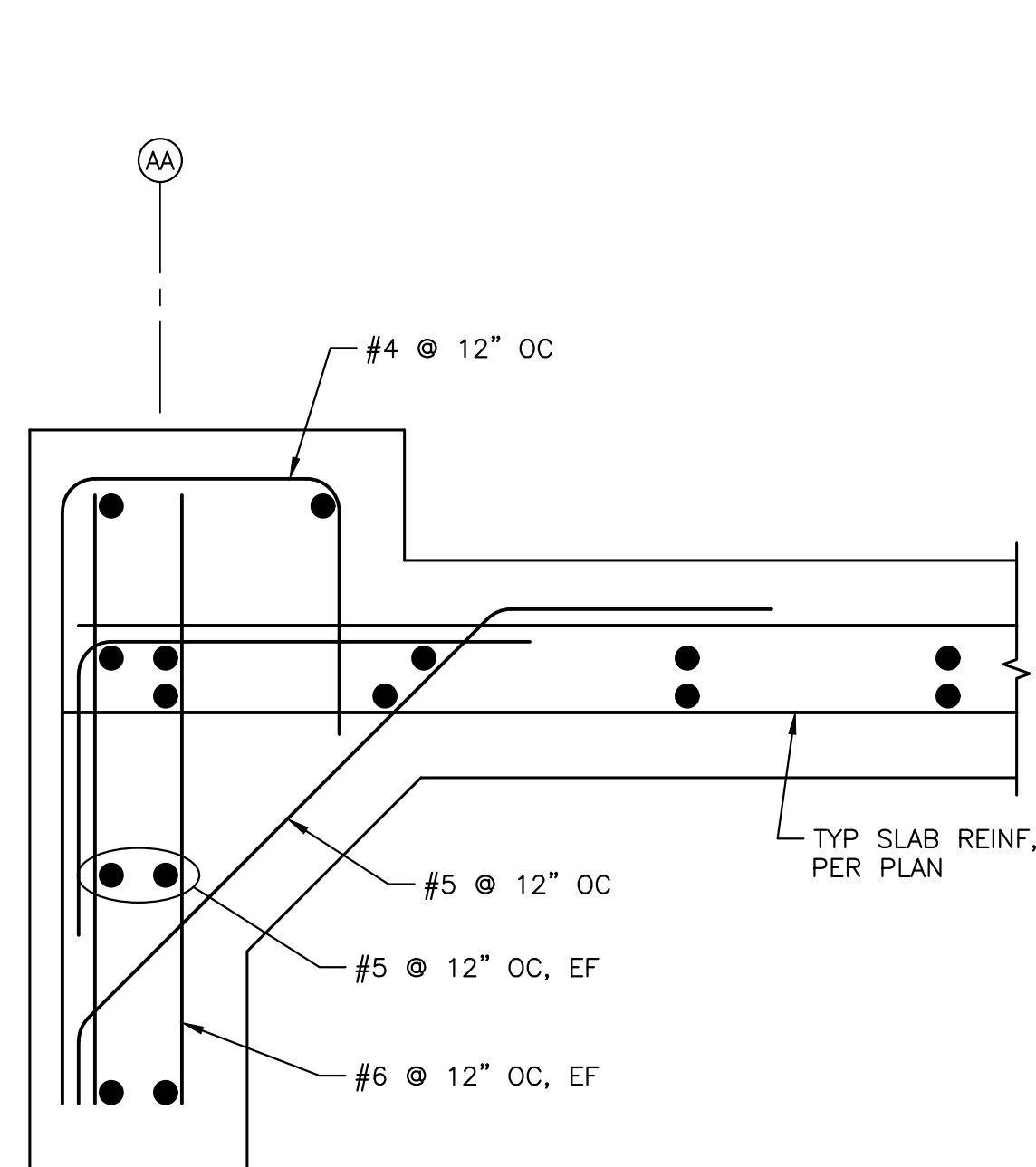
DETAIL 3
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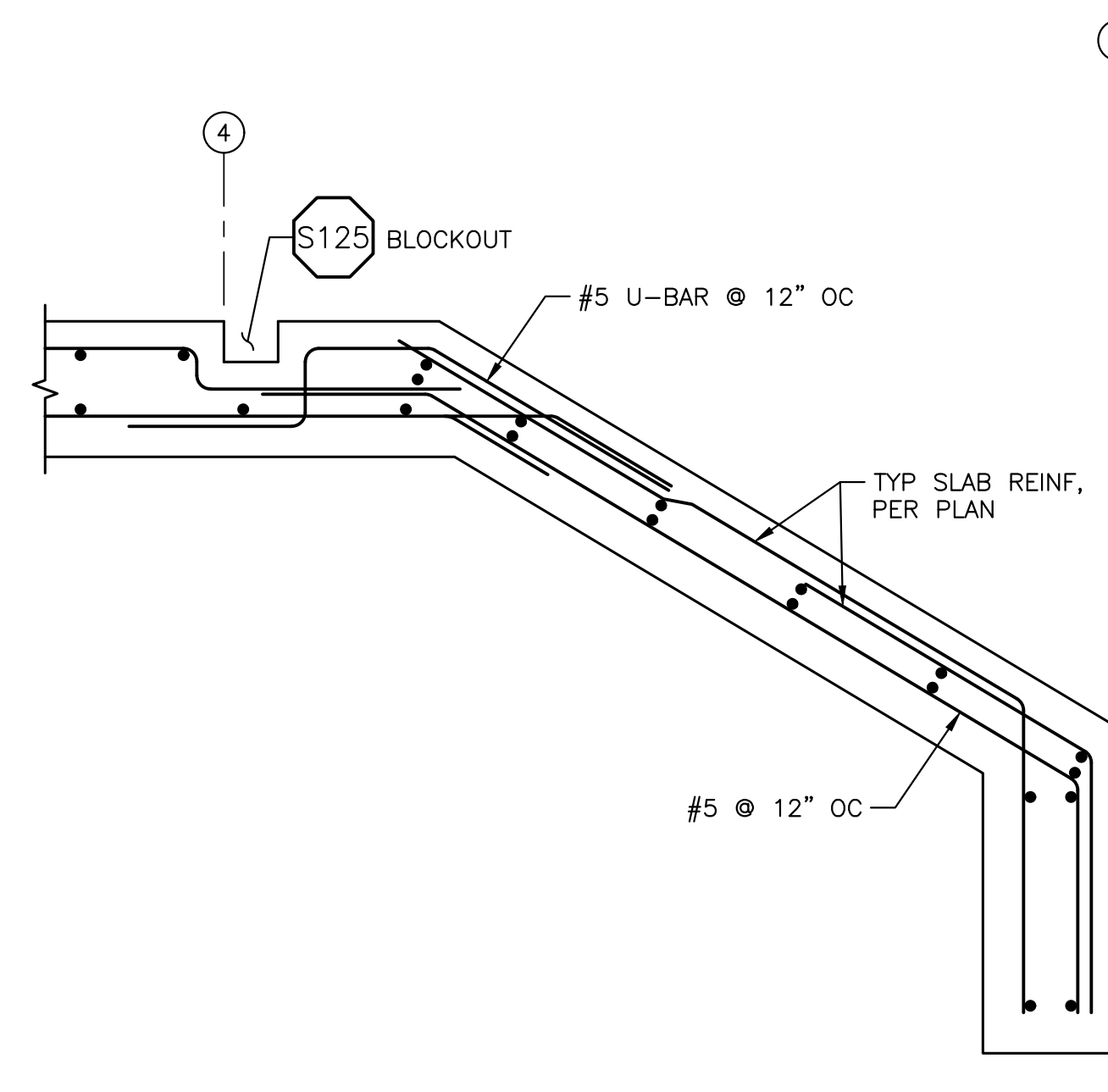
DETAIL 4
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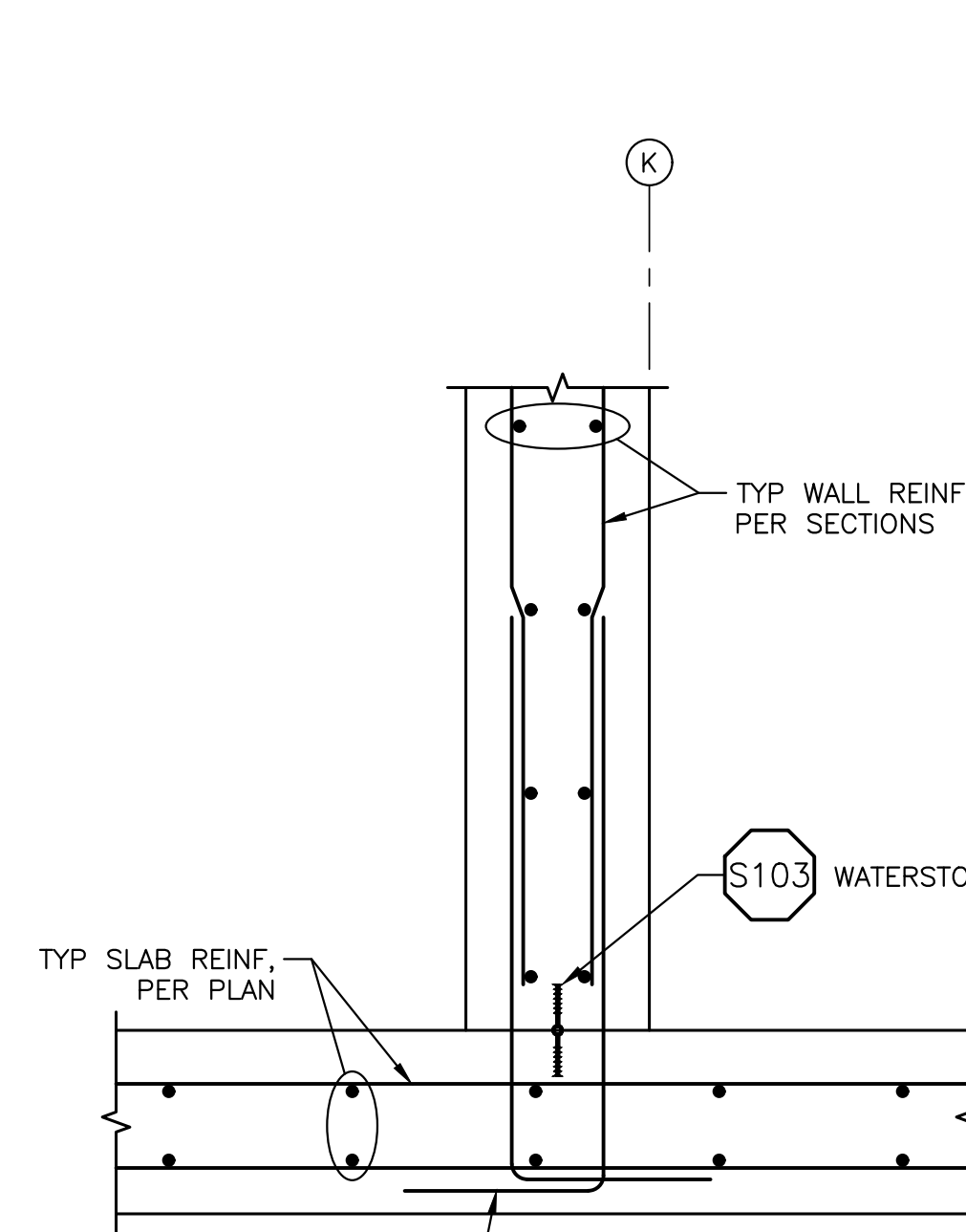
DETAIL 5
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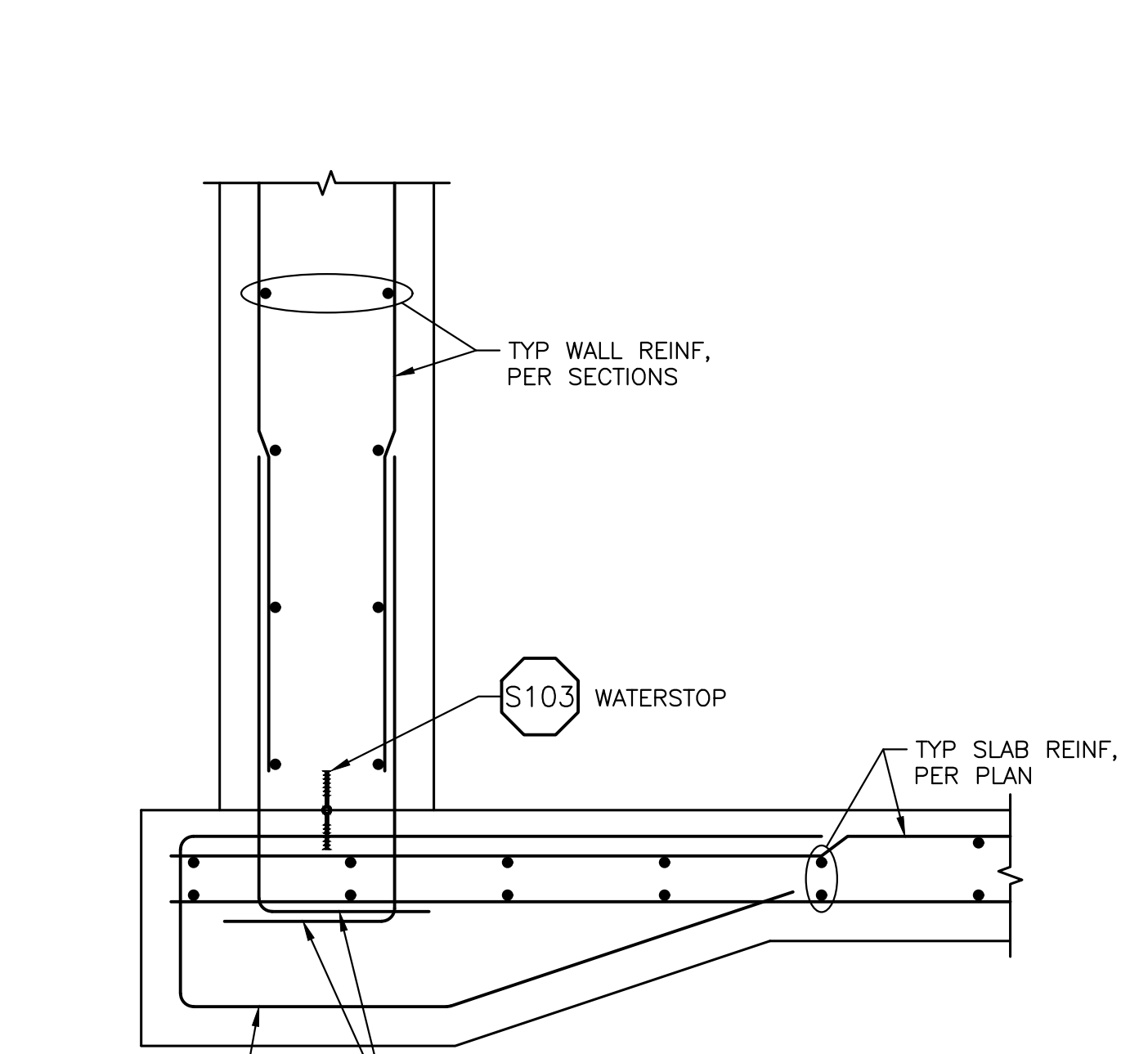
DETAIL 6
SCALE: 1 1/2" = 1'-0"



DETAIL 7
SCALE: 1" = 1'-0"



DETAIL 8
SCALE: 1" = 1'-0"



DETAIL 9
SCALE: 1" = 1'-0"

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
DIVERSION STRUCTURE DETAILS
1

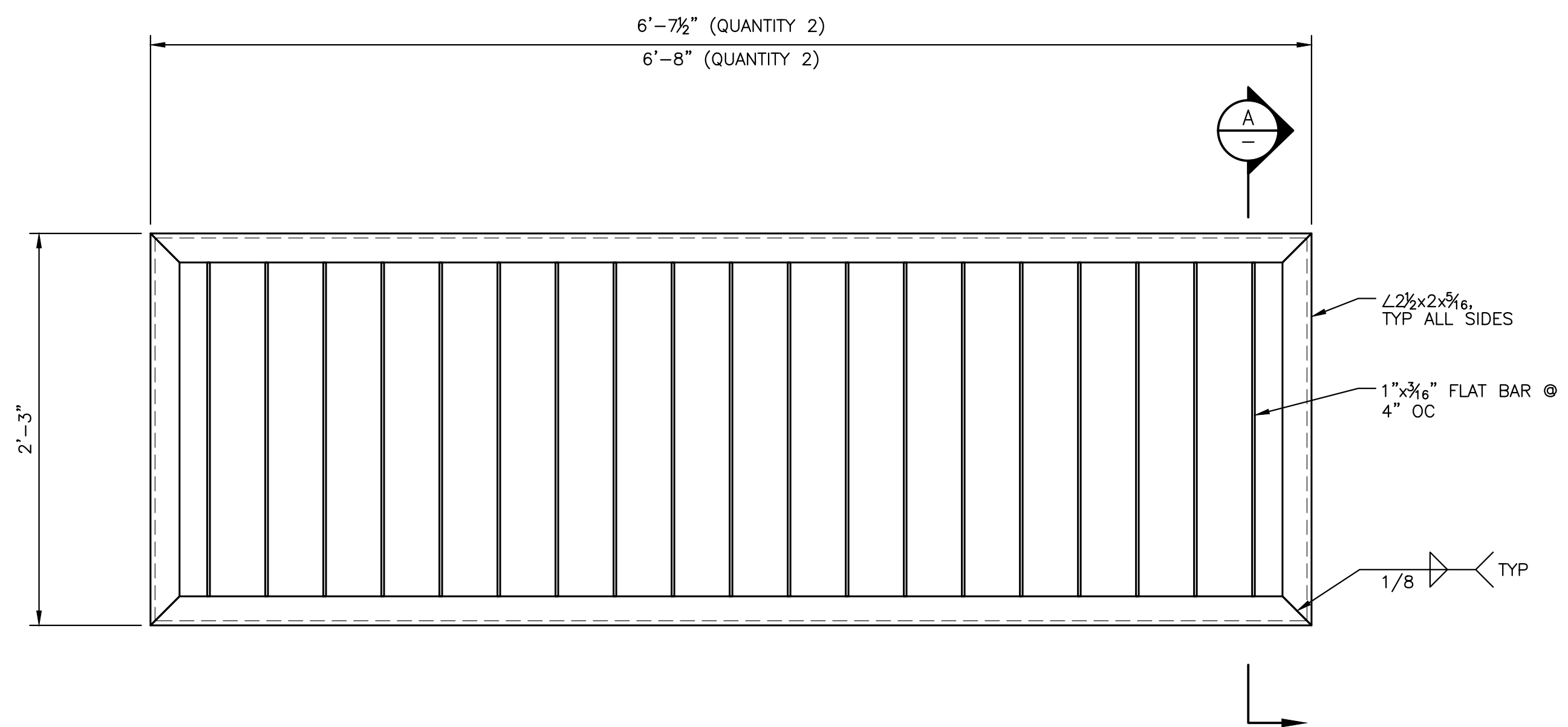
DESIGNED G. HORECZY
DRAWN J. LAHMOM
CHECKED C. BOYD
ISSUED DATE 03/27/24



DRAWING
S104
SCALE: AS NOTED

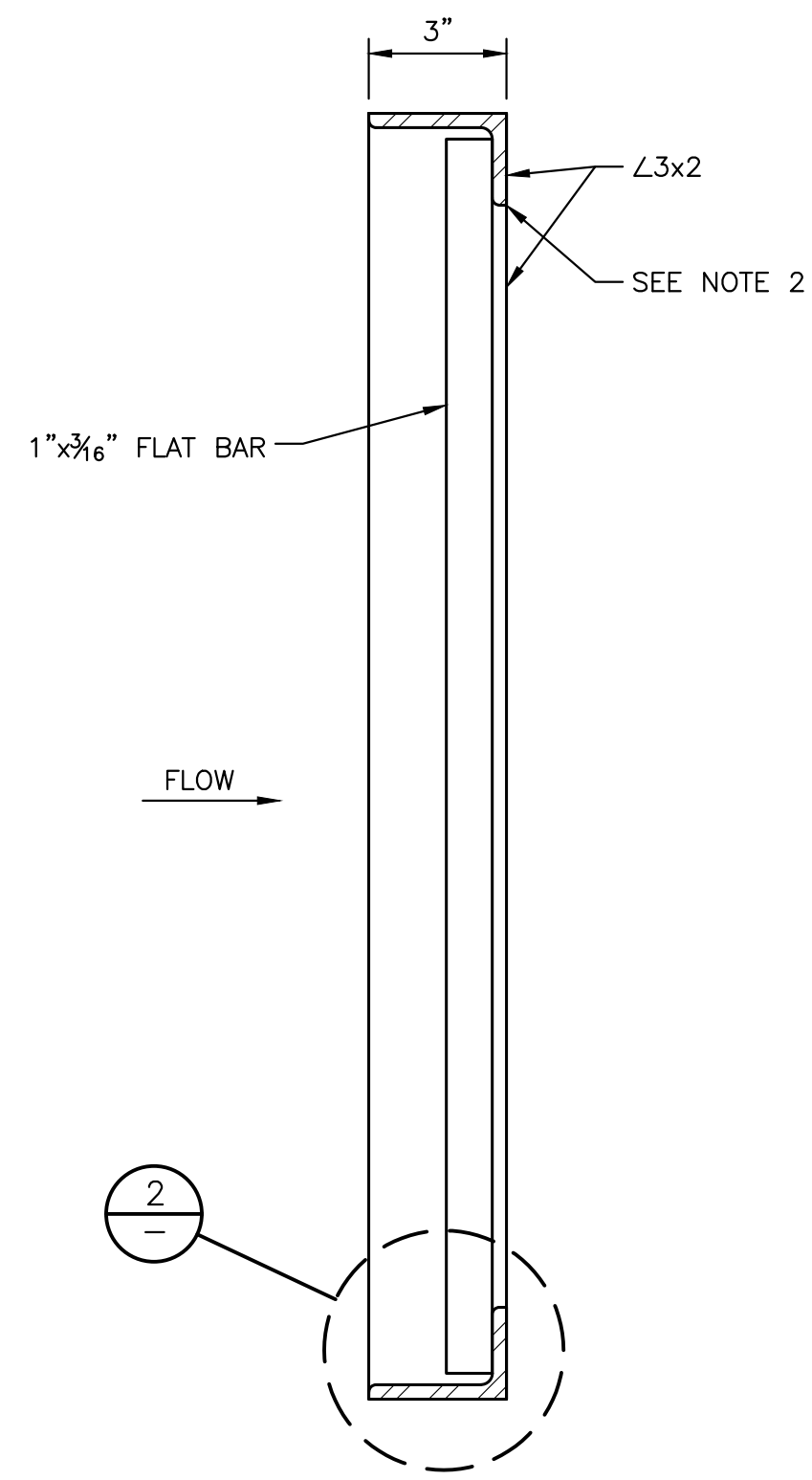
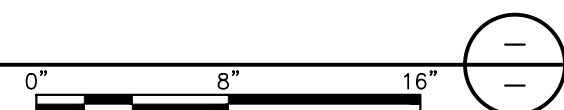
REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

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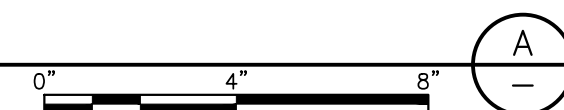
TRASH RACK DETAIL (1 PANEL SHOWN; 4 TOTAL PANELS REQD)

SCALE: 1 1/2" = 1'-0"

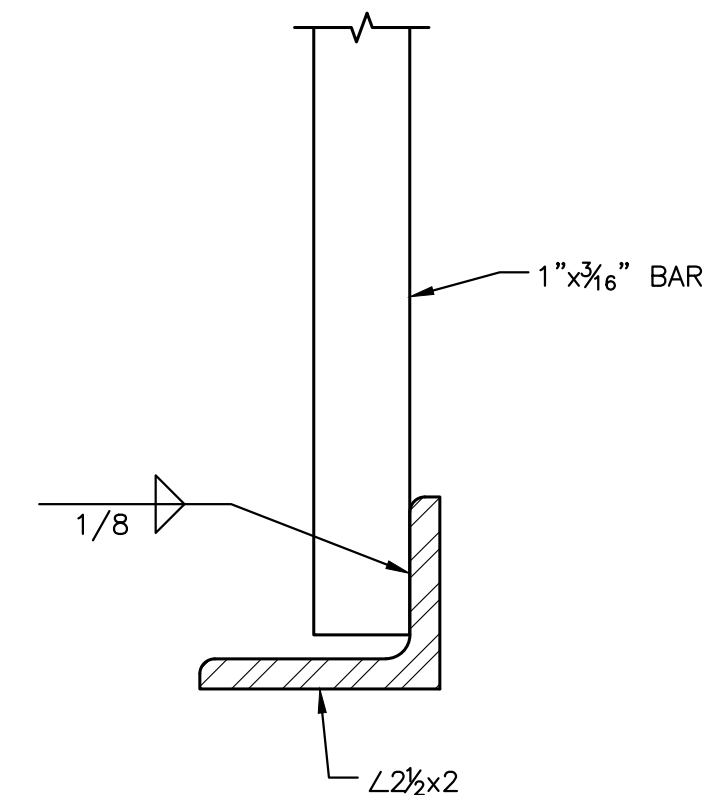


SECTION

SCALE: 3" = 1'-0"

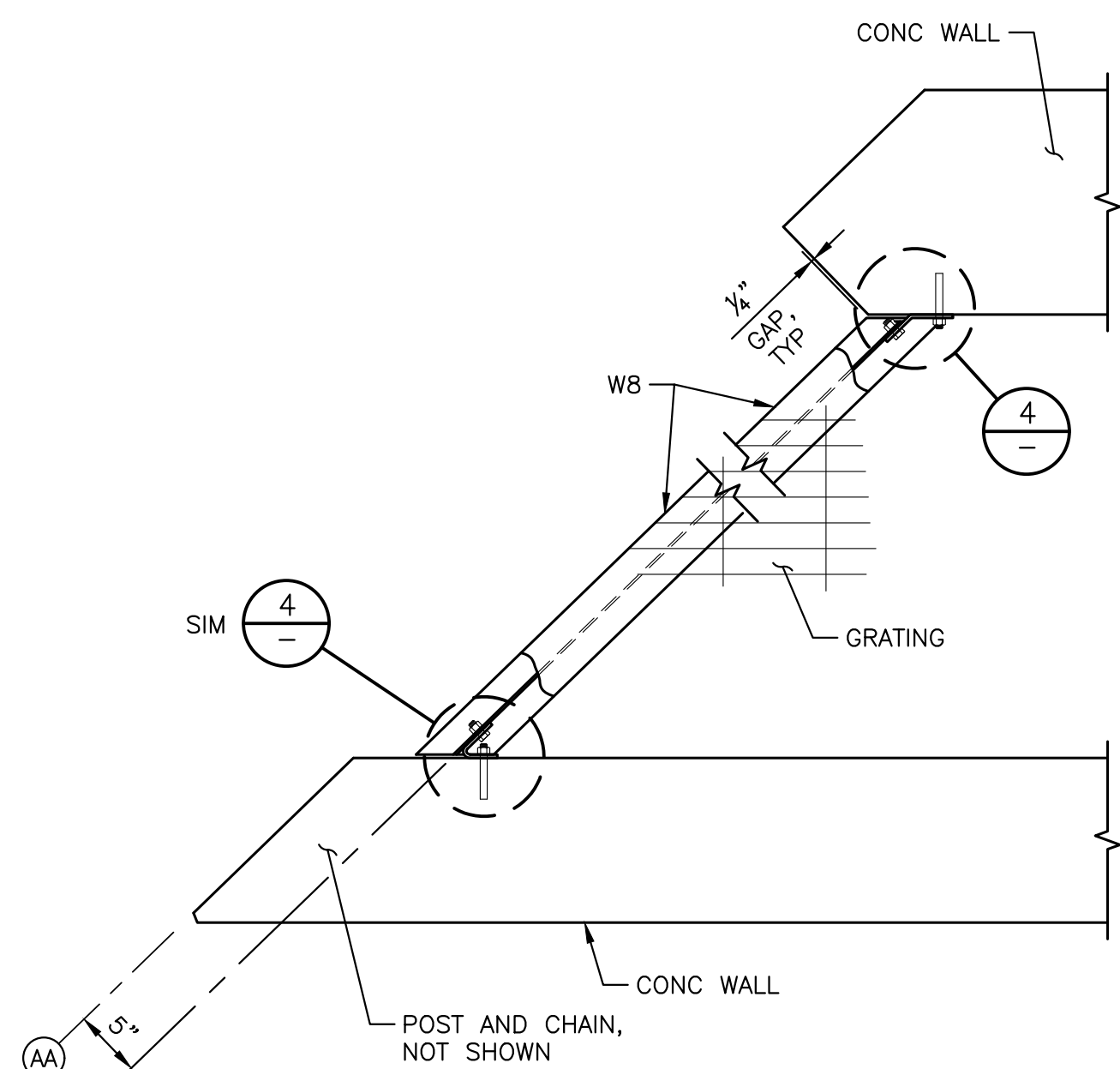
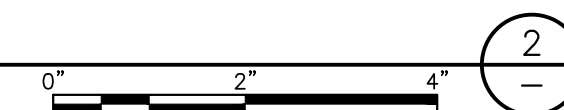


- SHEET NOTES:
1. ALL STEEL FABRICATIONS THIS SHEET SHALL BE HOT-DIPPED GALVANIZED, UNO.
 2. LIFT TRASH RACK BY HOOKING FLANGE INDICATED, AS REQUIRED TO SAFELY LIFT.



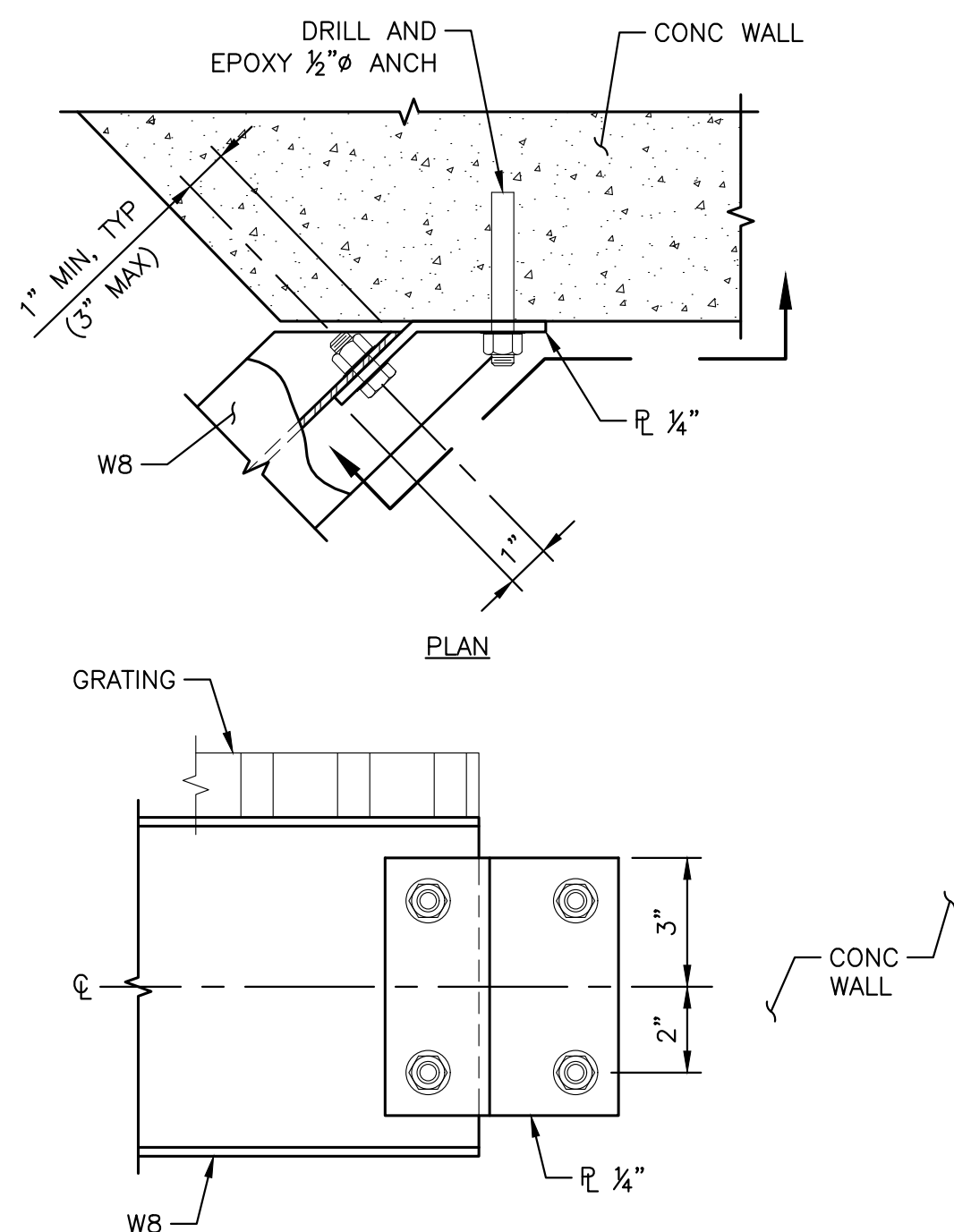
DETAIL

SCALE: 6" = 1'-0"



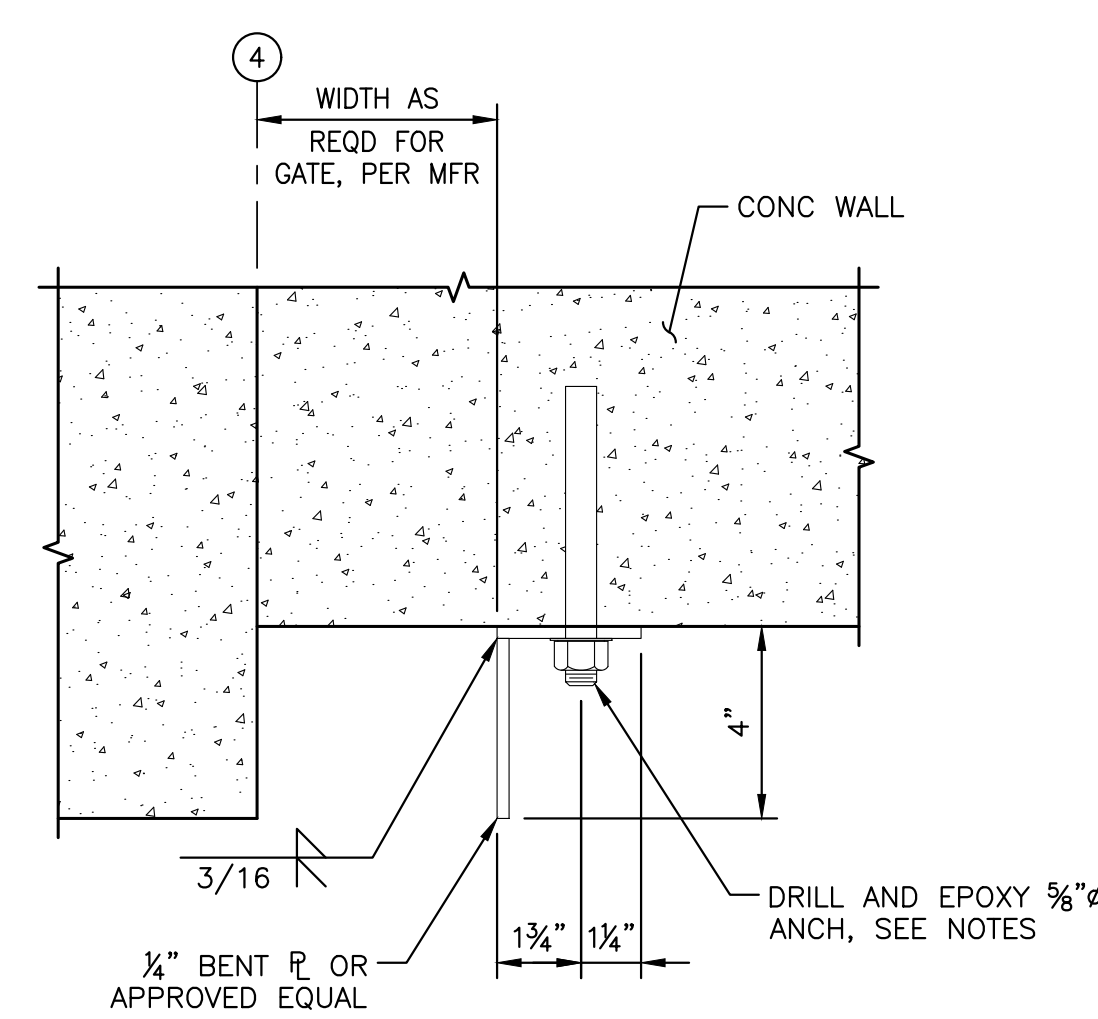
GRATING SUPPORT BEAM DETAIL

SCALE: 1" = 1'-0"



BEAM TO CONWC DETAIL

SCALE: 3" = 1'-0"



DETAIL

SCALE: 3" = 1'-0"



- NOTES:
1. ANCH: 1/2" ASTM F1552 GRADE 36 THRD ROD; EMBED 4".
- EPOXY: HILTI HY-200, OR APPROVED EQUAL.

- NOTES:
1. ANCH: ASTM F1552 GRADE 36 THRD ROD @ 12" OC MAX SPCG, TOP ANCH SHALL BE 5" FROM T.O. CONWC; EMBED 5" MIN.
- EPOXY: HILTI HY-200, OR APPROVED EQUAL.



WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
DIVERSION STRUCTURE DETAILS 2

DESIGNED G. HORECNY
DRAWN J. LAHMOM
CHECKED C. BOYD
ISSUED DATE 03/27/24

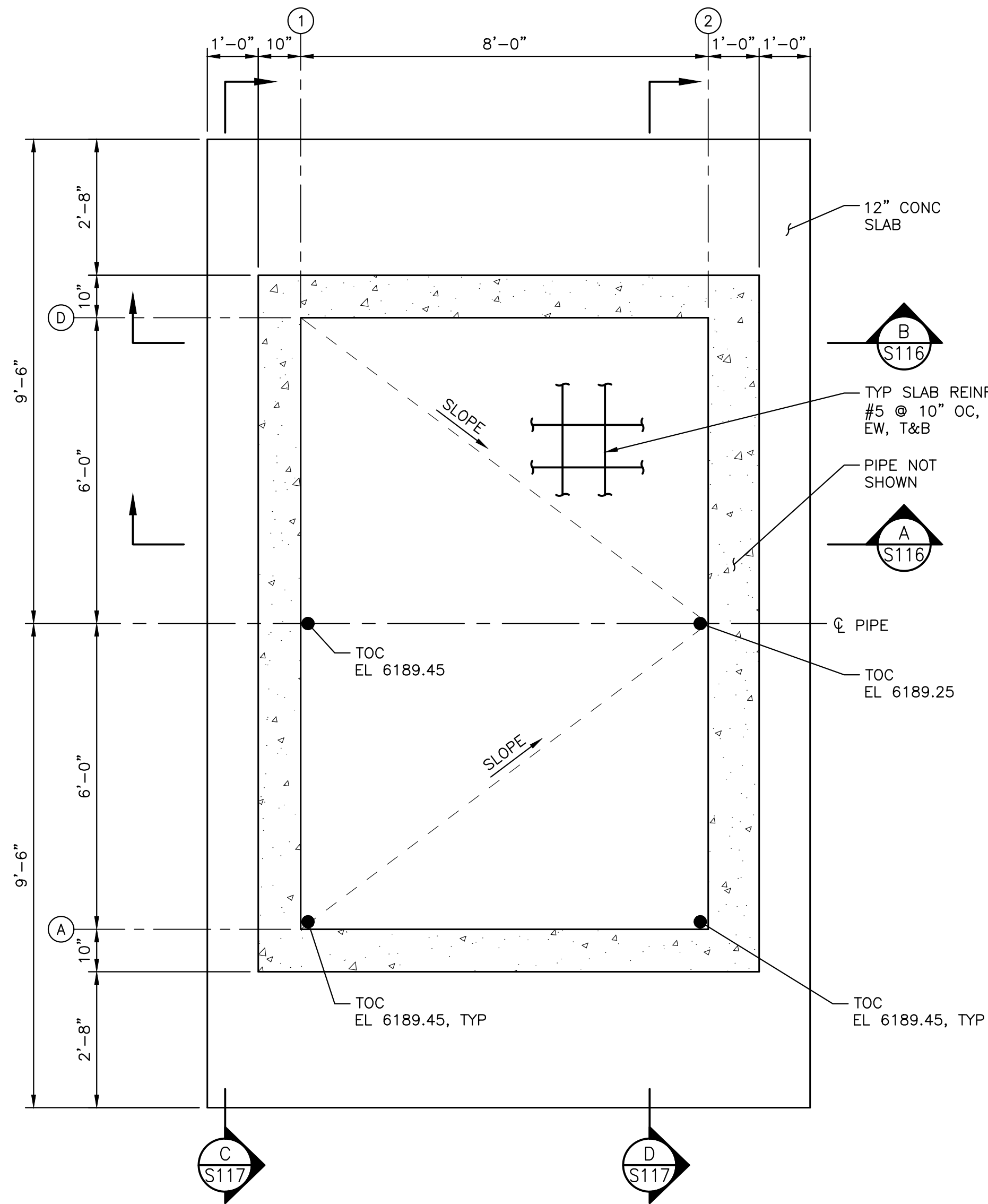


DRAWING
S105
SCALE: AS NOTED

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

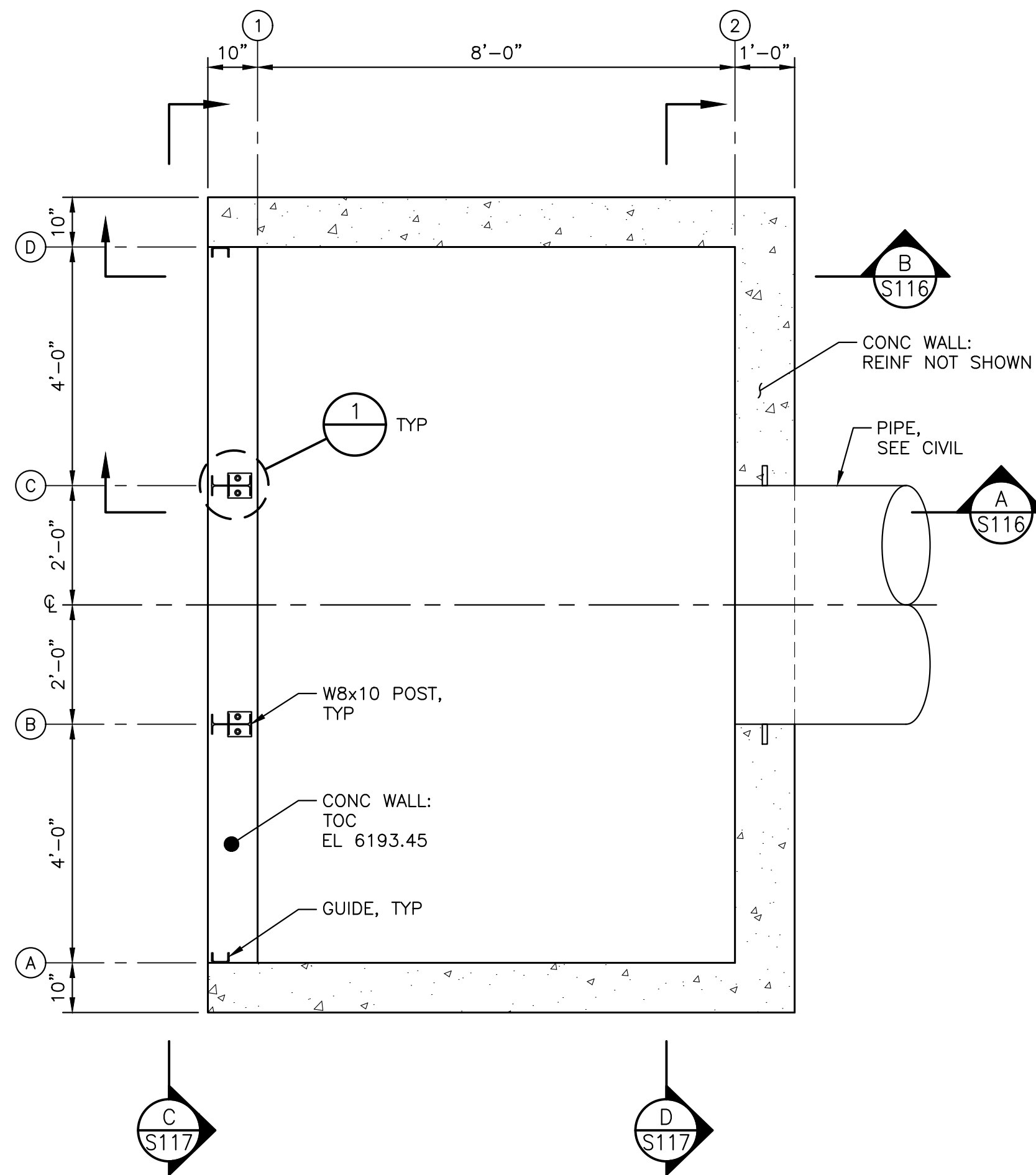
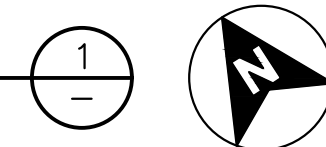
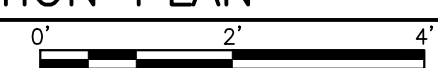
SHEET NOTES:

1. SOUTHWEST FACE OF SCREEN STRUCTURE EXTENDS TO GRIDLINE 2 ON THIS SHEET.
2. GRATING SHALL BE McNICHOLS GW-100-A TYPE 19-W-4 SERRATED GRATING, OR APPROVED EQUAL. FINISH: HOT DIPPED GALVANIZED STEEL.



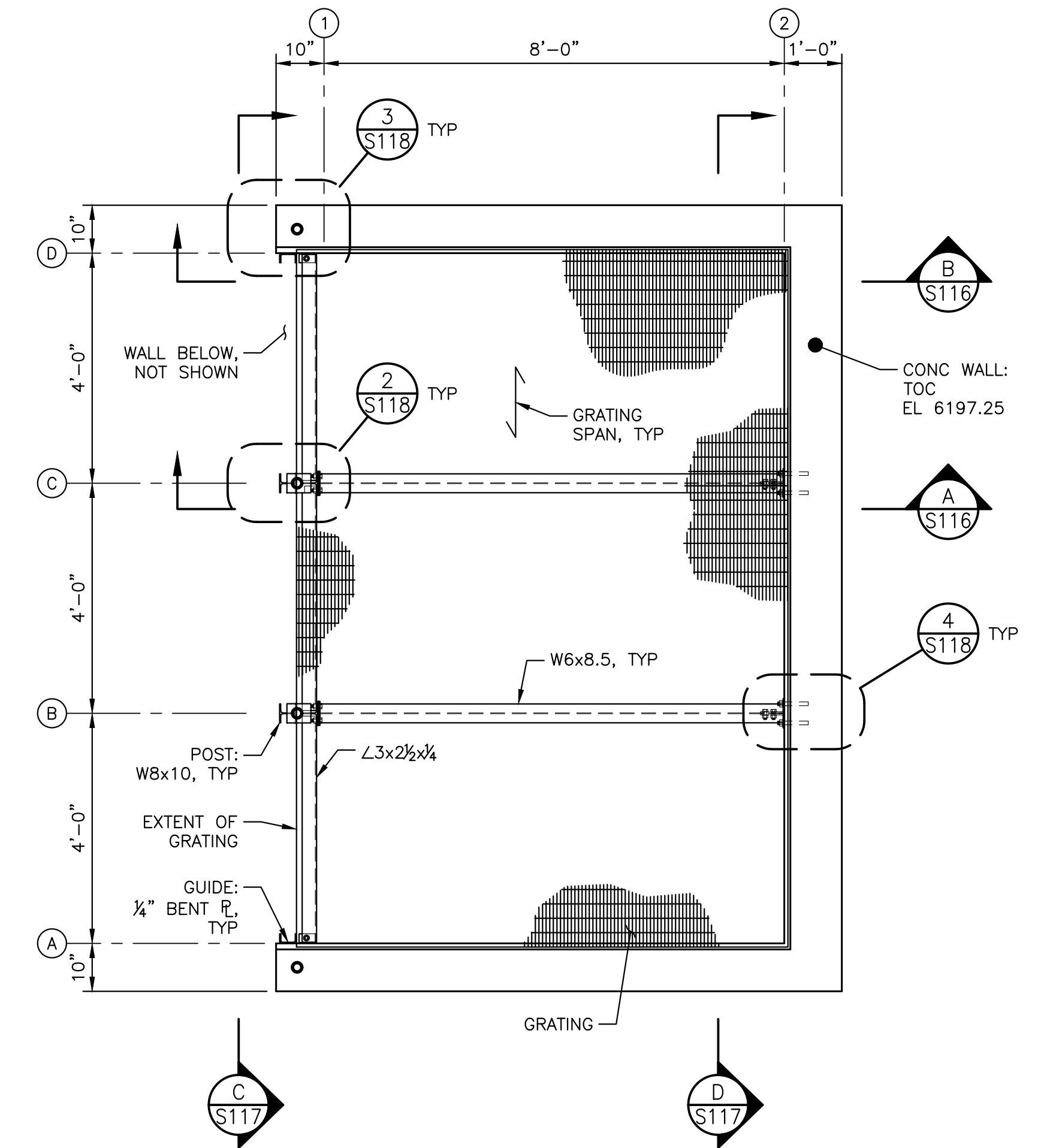
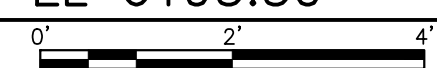
DROP STRUCTURE FOUNDATION PLAN

SCALE: 1/2" = 1'-0"



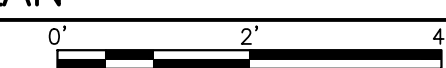
DROP STRUCTURE PLAN @ EL 6193.50

SCALE: 1/2" = 1'-0"



DROP STRUCTURE TOP PLAN

SCALE: 1/2" = 1'-0"



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

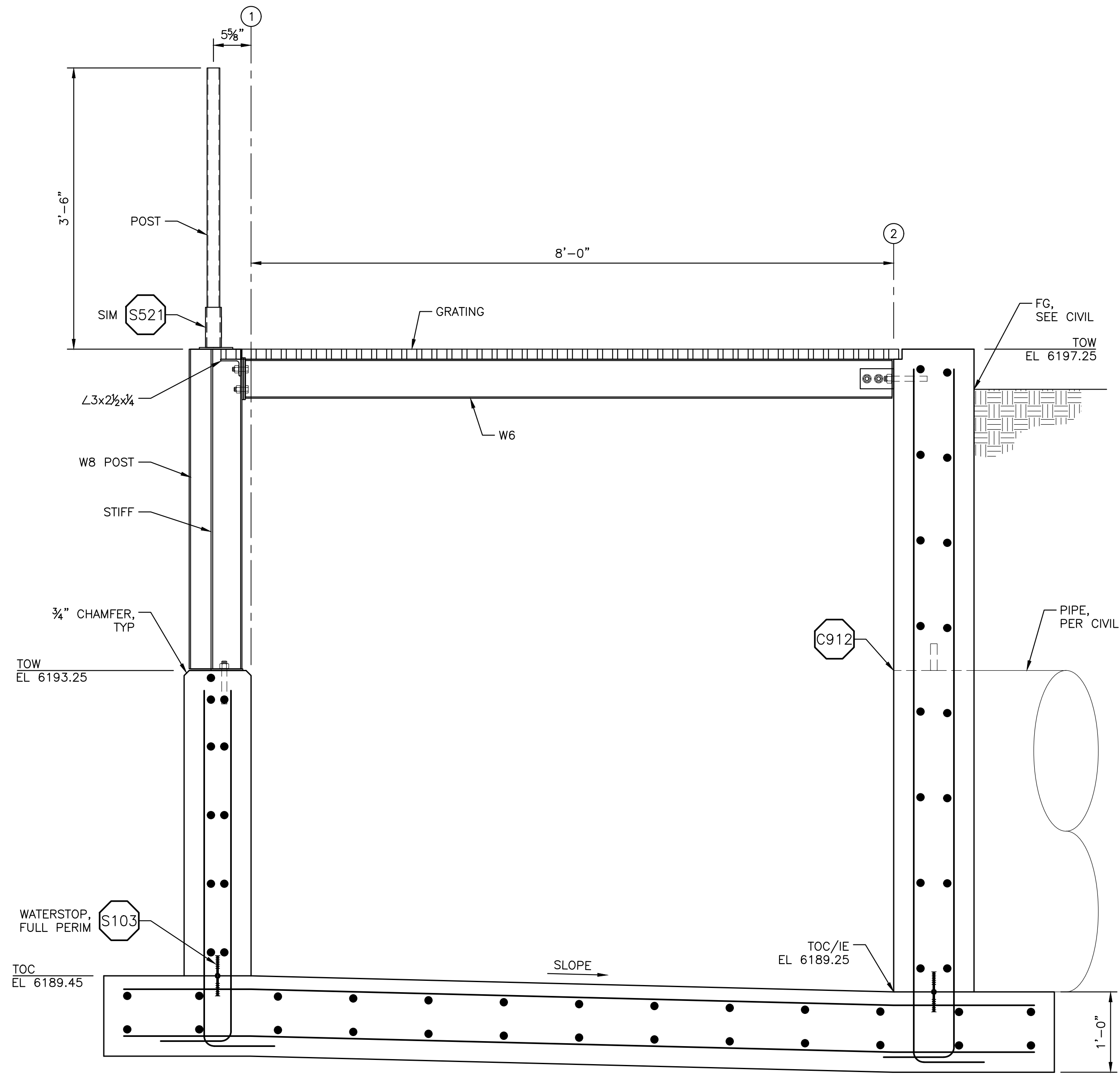


TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DROP INLET STRUCTURE
 FLOOR AND TOP PLANS

DESIGNED G. HORECZY
 DRAWN J. LAHMON
 CHECKED D. JAMISON
 ISSUED DATE 03/27/24

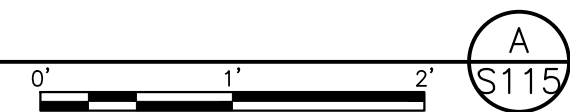


DRAWING
S115
 SCALE: AS NOTED

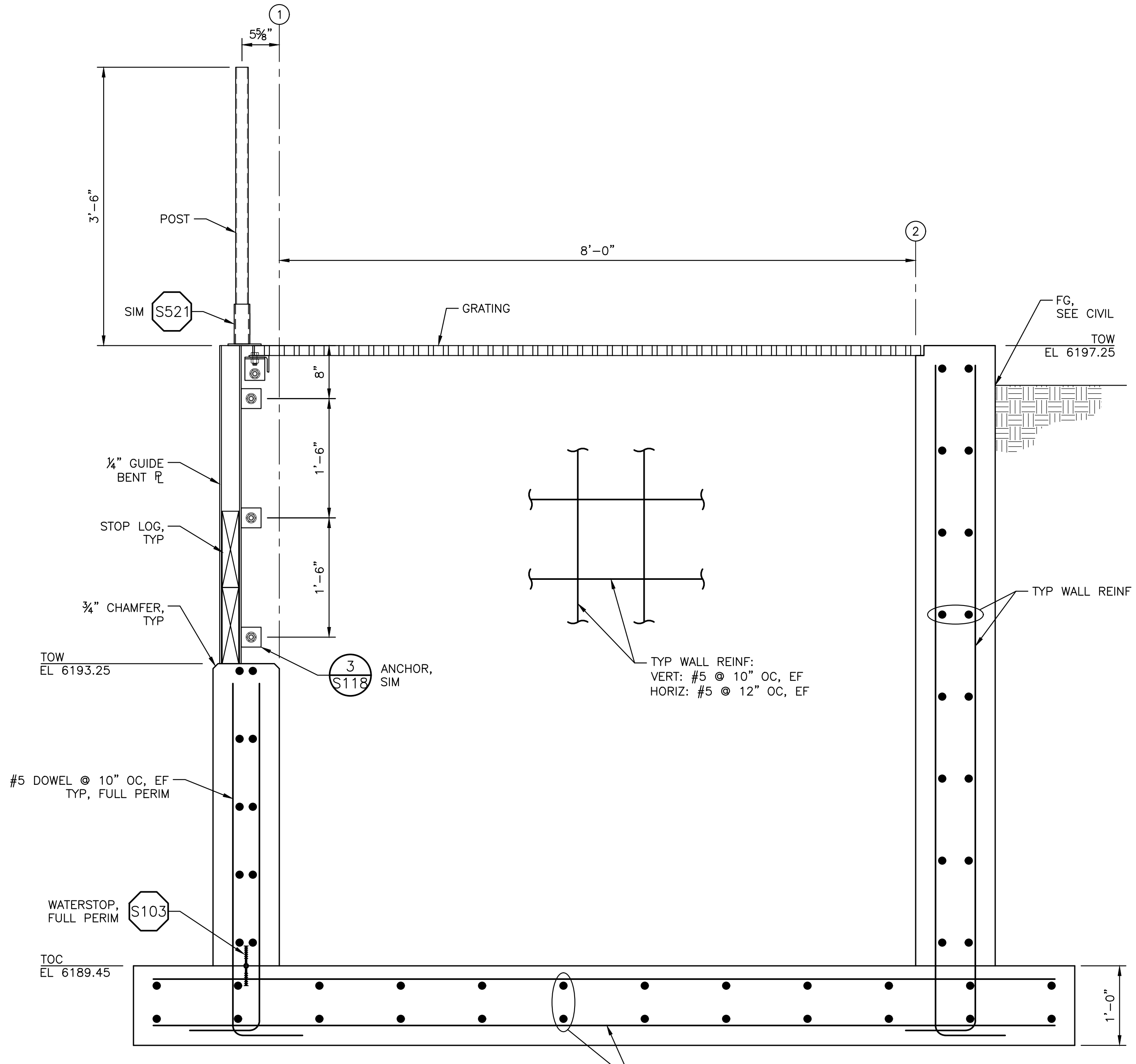


SECTION

SCALE: 1" = 1'-0"

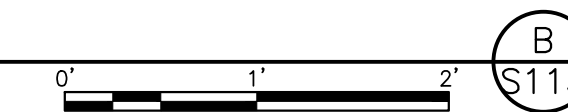


A
S115



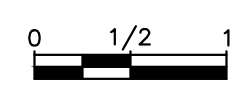
SECTION

SCALE: 1" = 1'-0"



B
S115

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



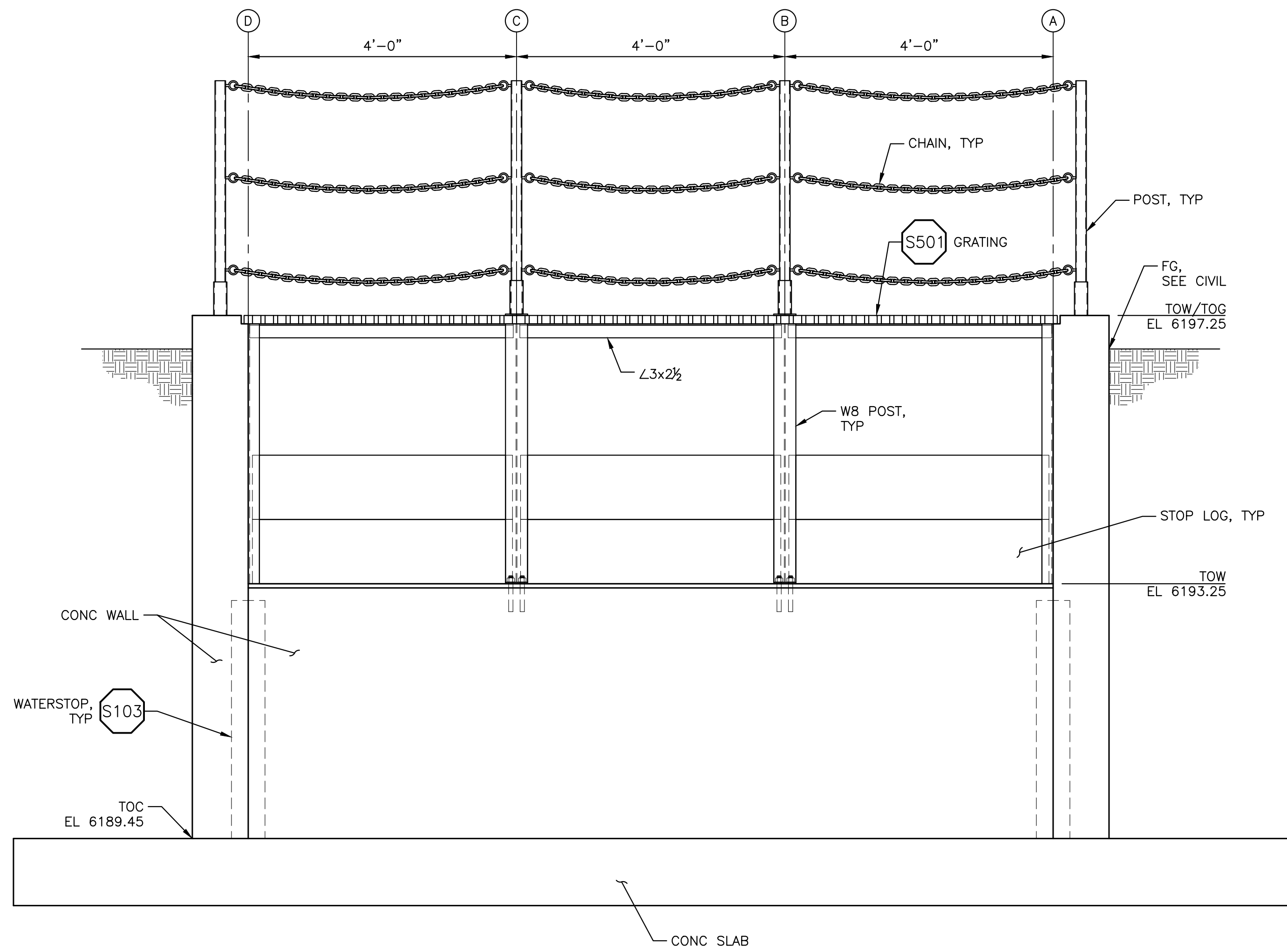
TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DROP INLET STRUCTURE
 SECTIONS AND DETAILS 1

DESIGNED G. HORECZY
 DRAWN J. LAHMON
 CHECKED D. JAMISON
 ISSUED DATE 03/27/24



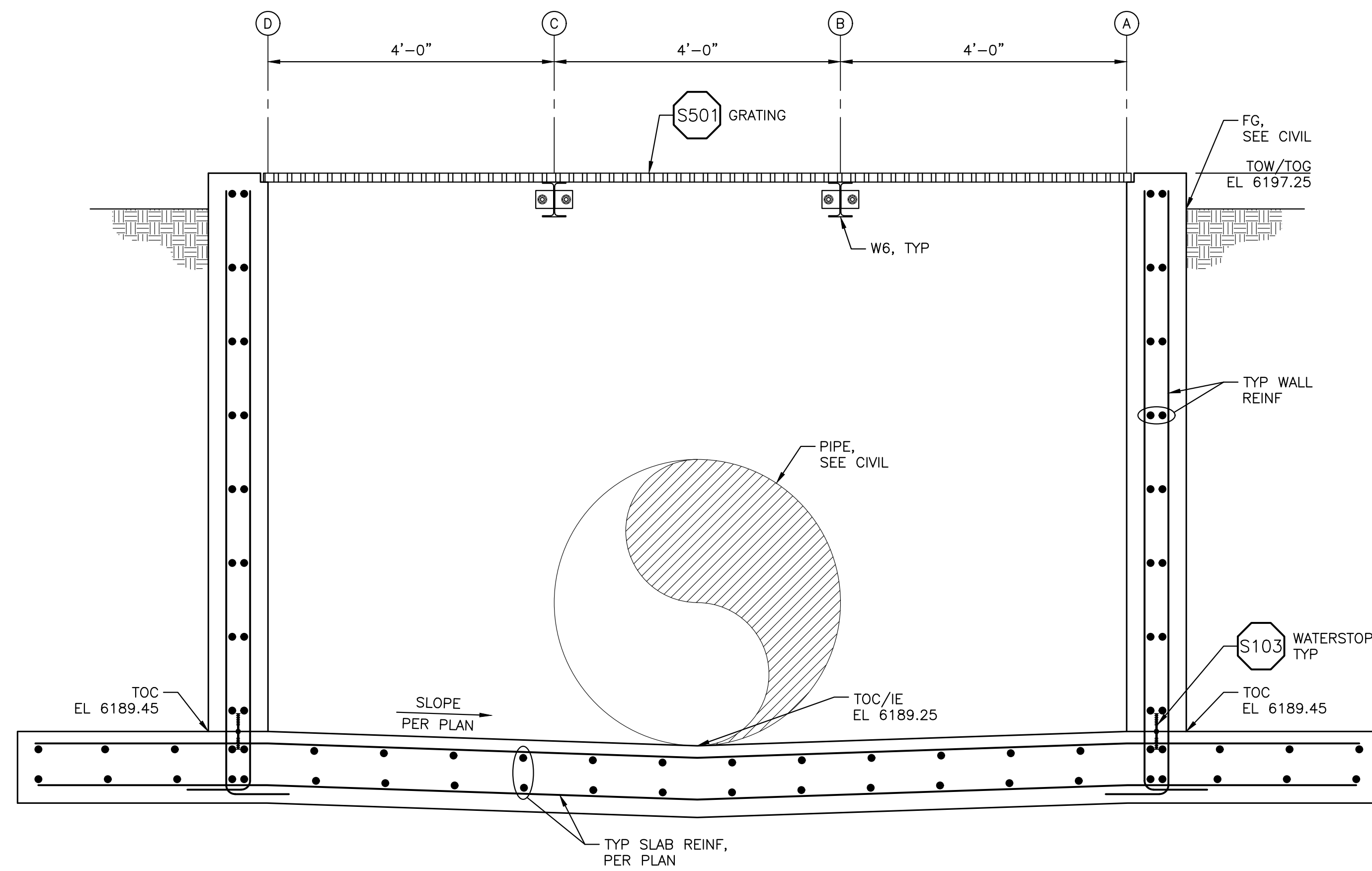
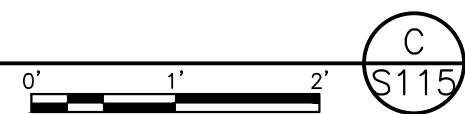
DRAWING
S116
 SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\2201 - Paris Creek Diversion\4 - Design\1 CAD\xxxxx.S116.dwg Plot date: Mar 26, 2024 04:01pm, CAD User: User



SECTION

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



SECTION

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



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



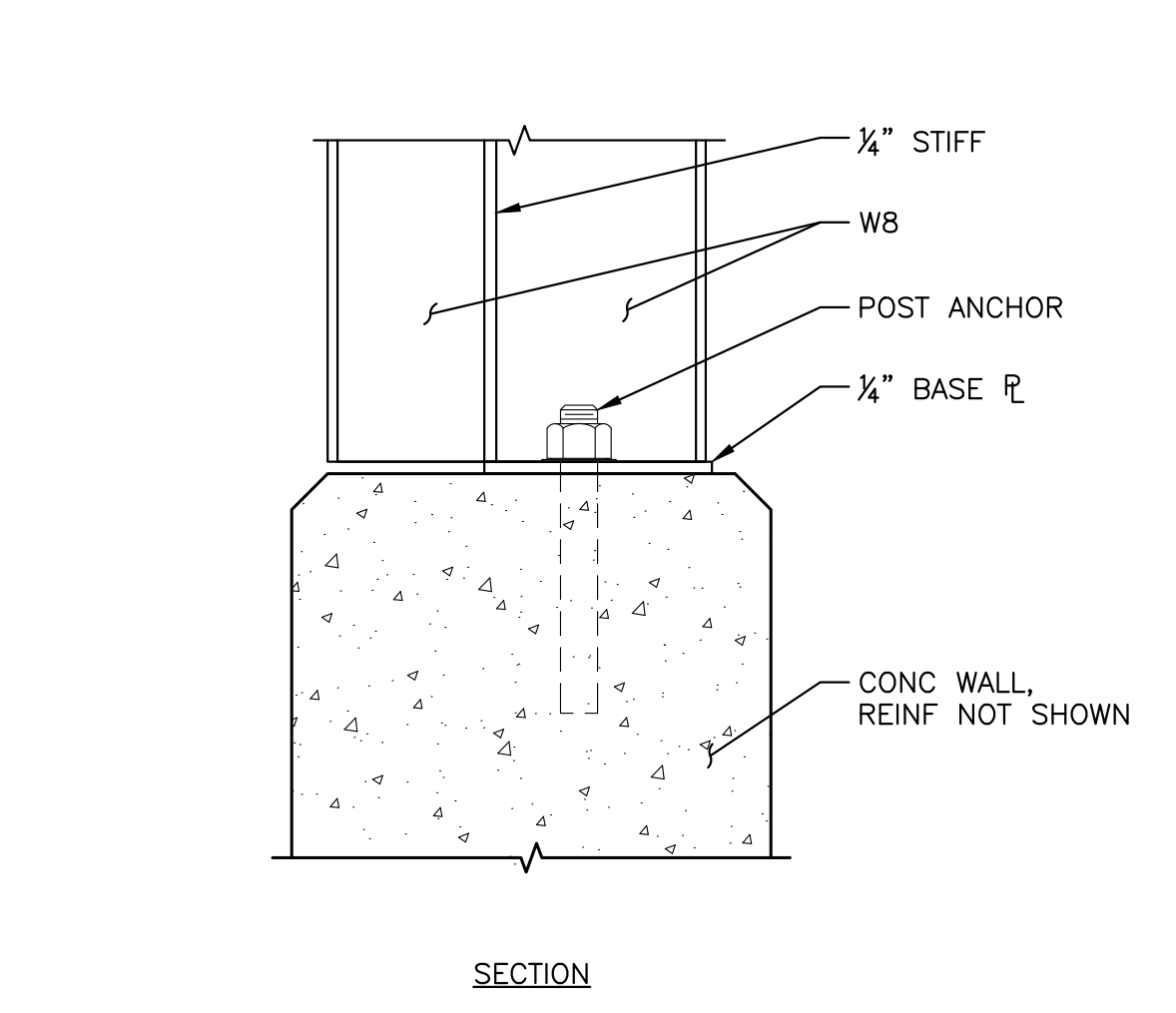
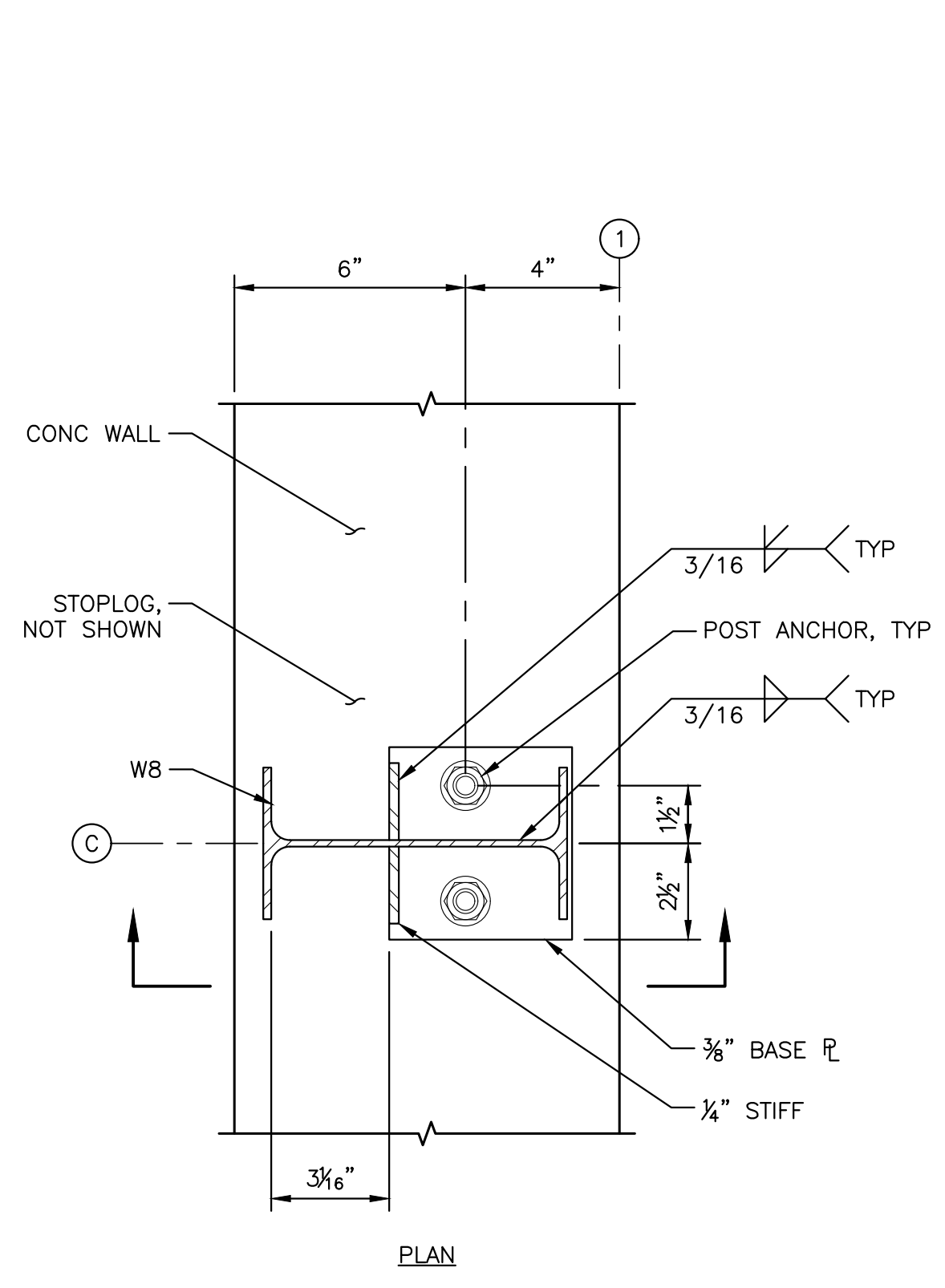
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

DROP INLET STRUCTURE
SECTIONS AND DETAILS 2

DESIGNED G. HORECZY
DRAWN J. LAHMON
CHECKED D. JAMISON
ISSUED DATE 03/27/24

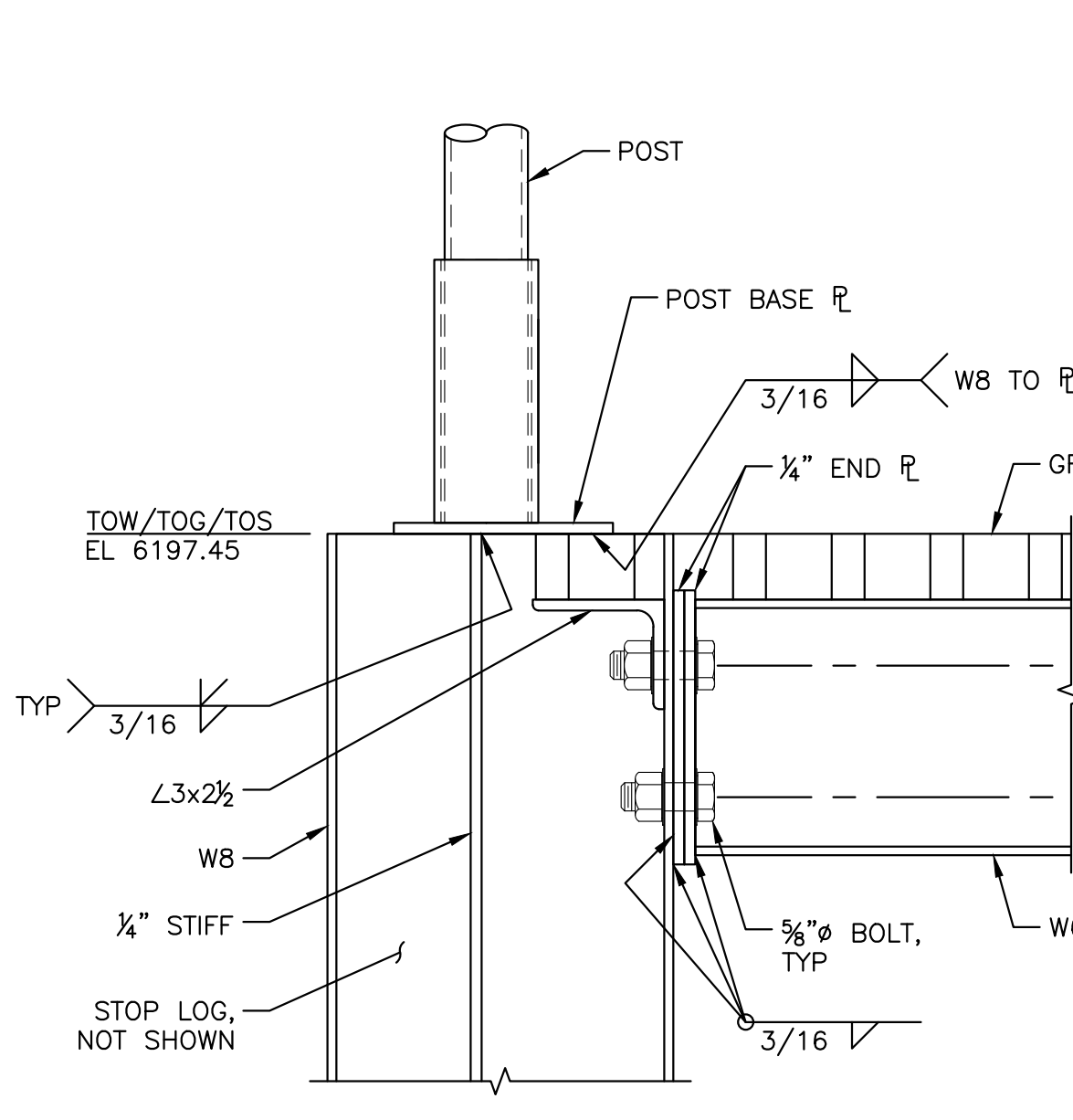
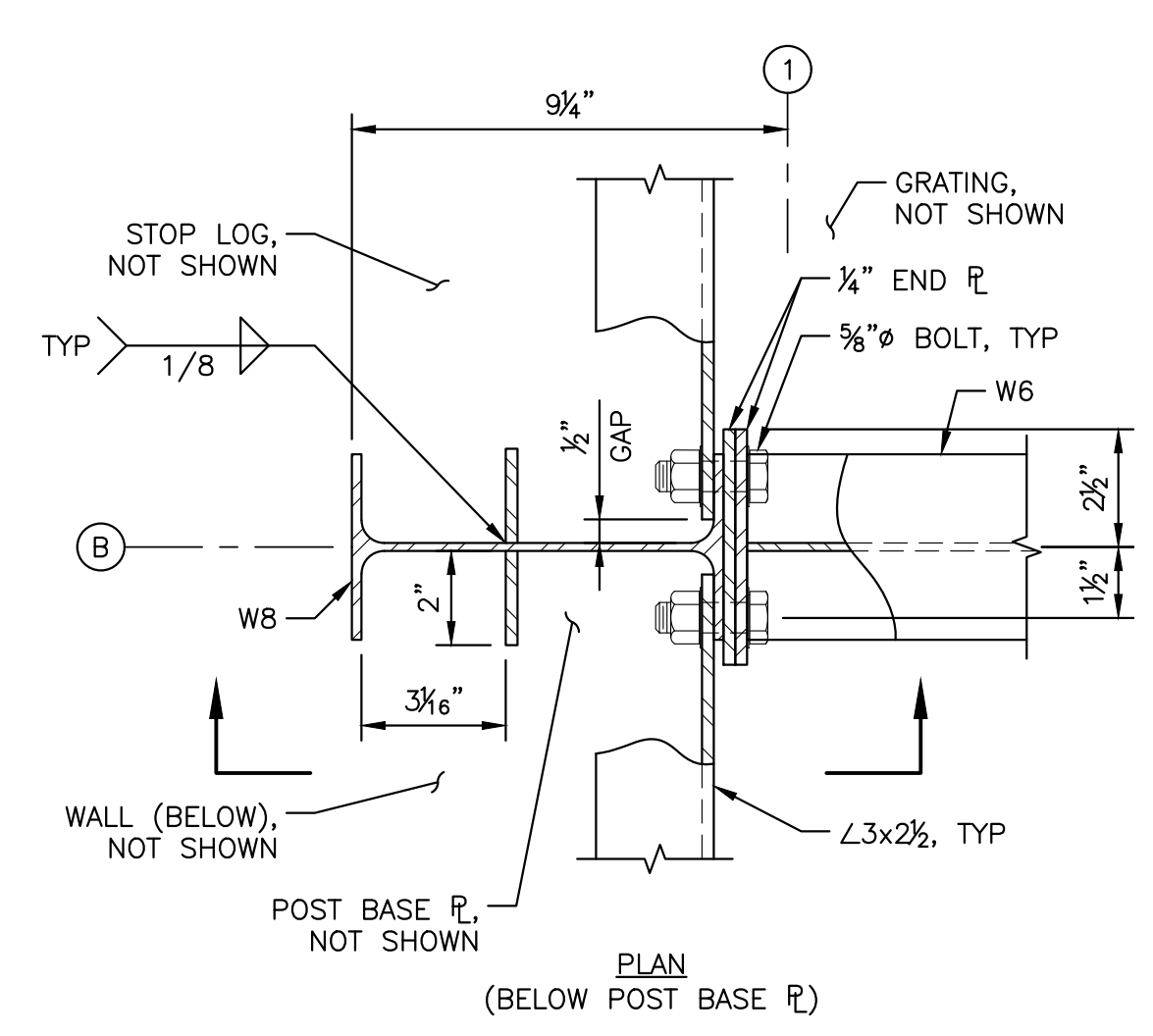
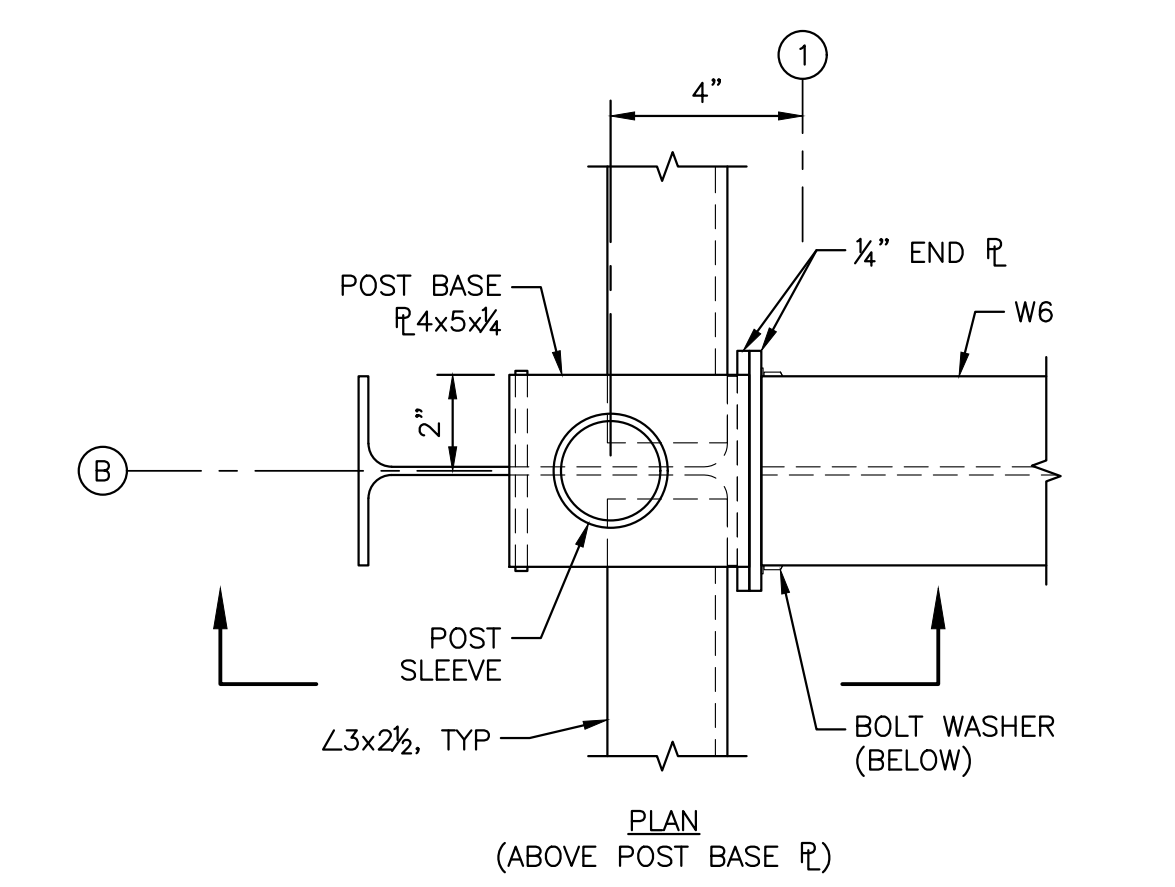


DRAWING
S117
SCALE: AS NOTED



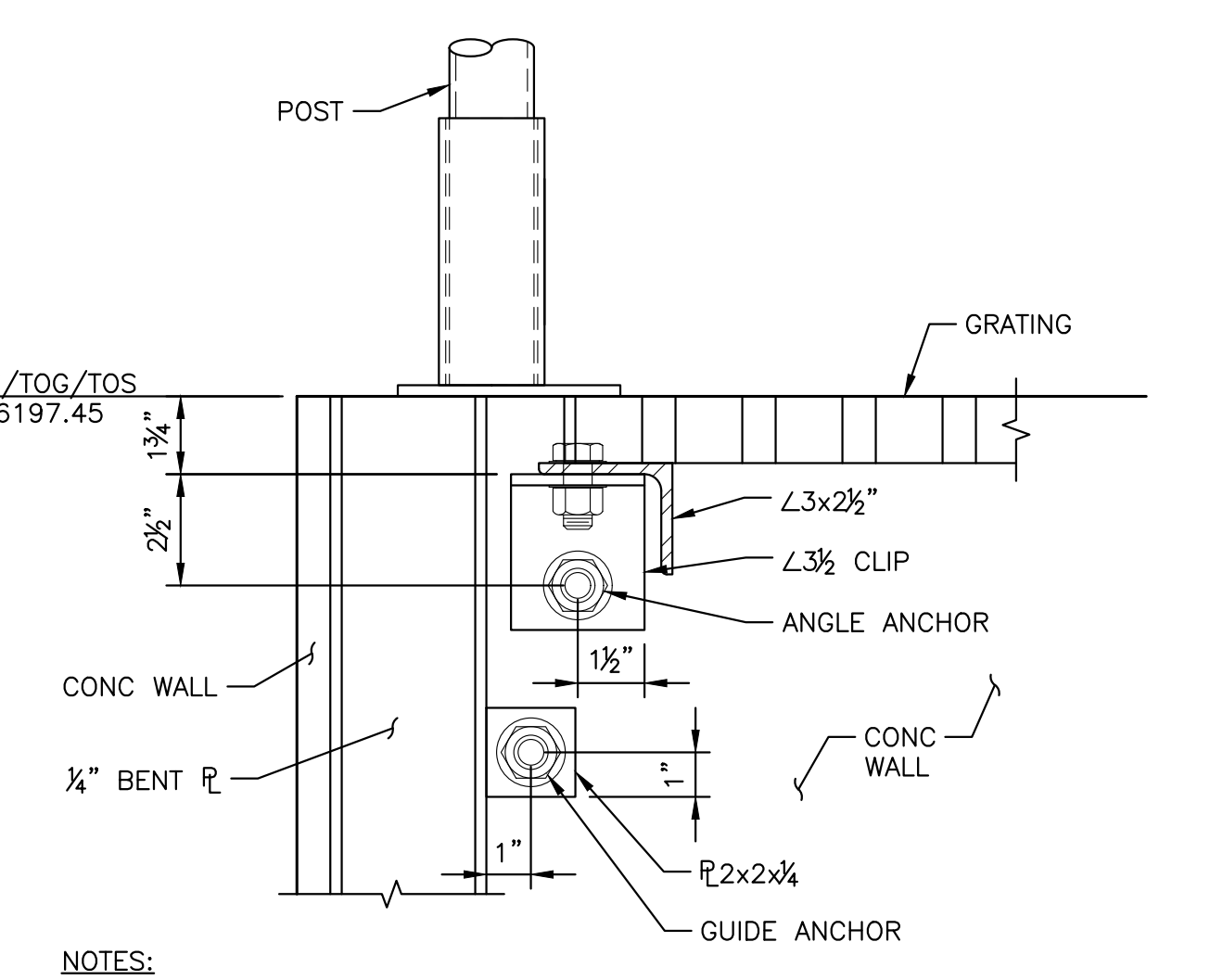
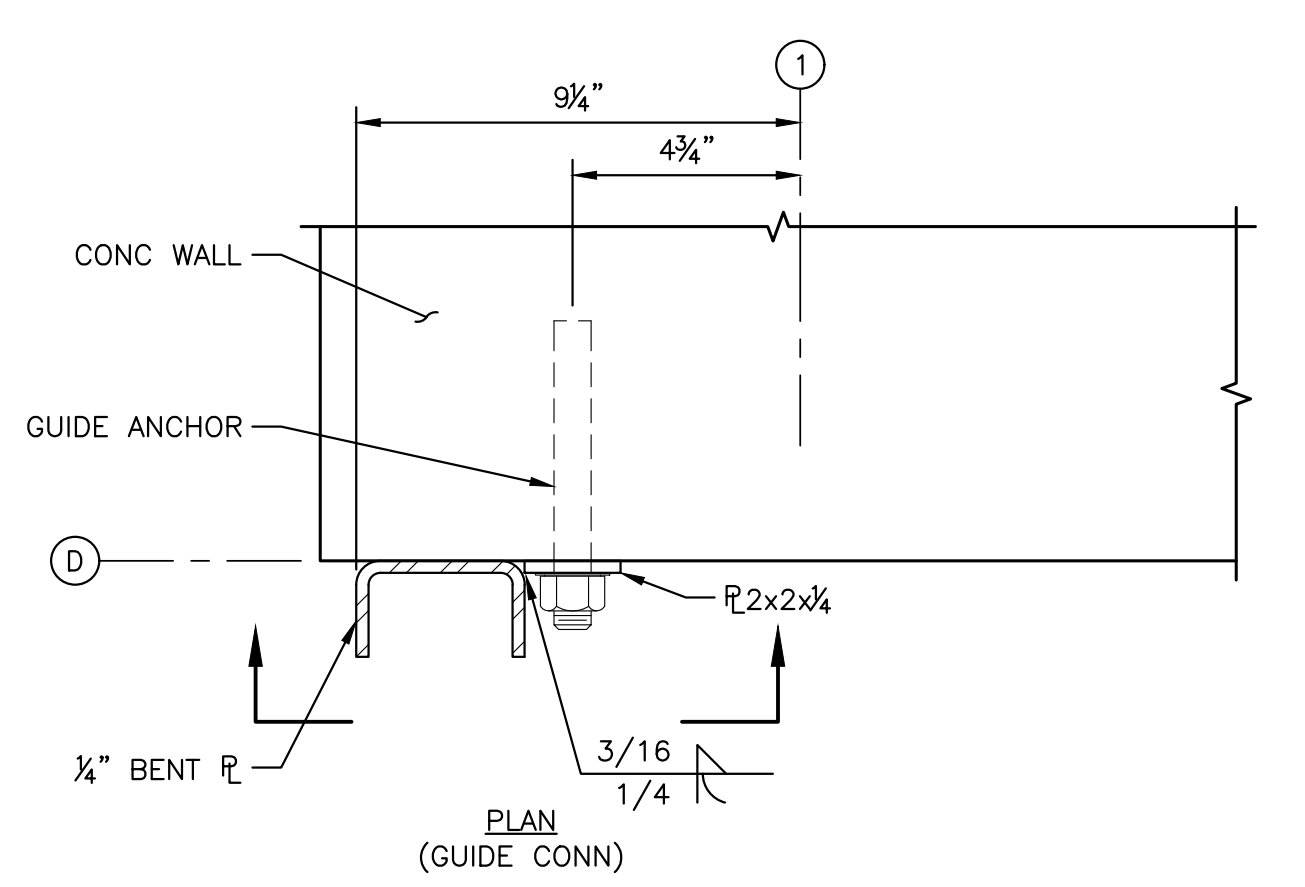
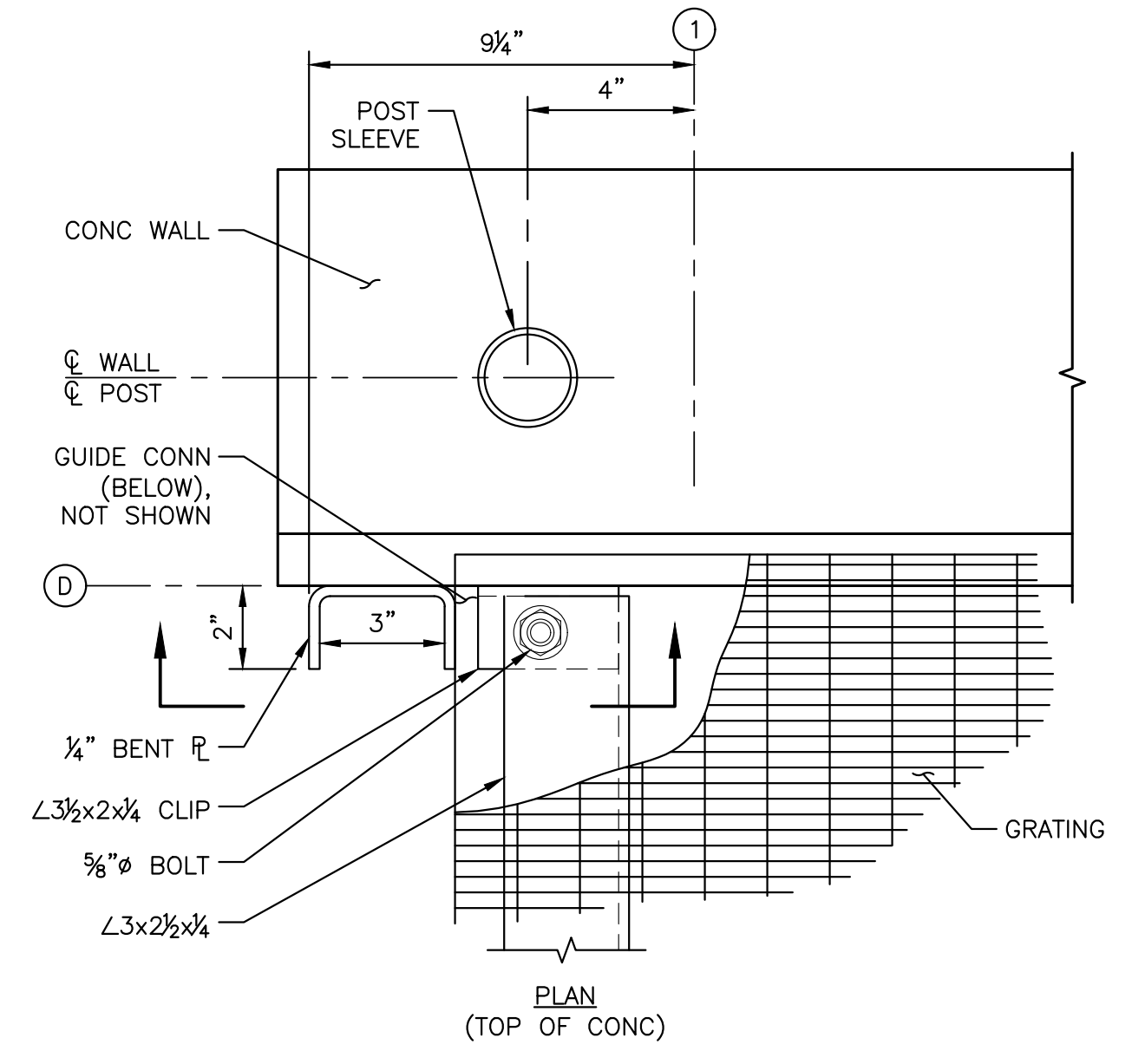
NOTE:
 1. POST ANCHOR: 5/8" Ø ASTM A193 GRADE B8 CLASS 1 THREADED ROD, DRILL AND EPOXY. EPOXY: HILTI HY-200 OR APPROVED EQUAL; EMBED MIN 8".

DETAIL 1
 SCALE: 1 1/2" = 1'-0"



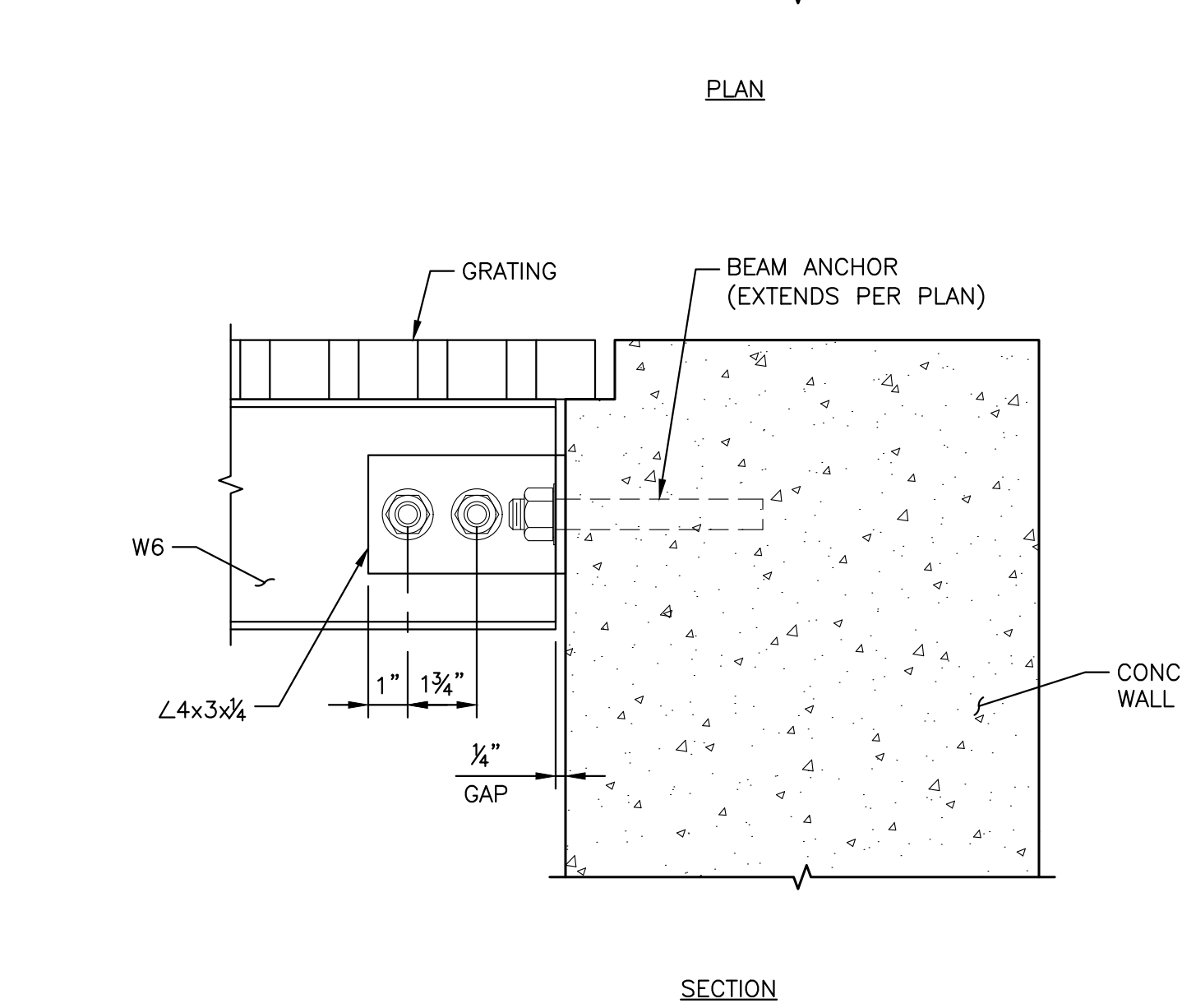
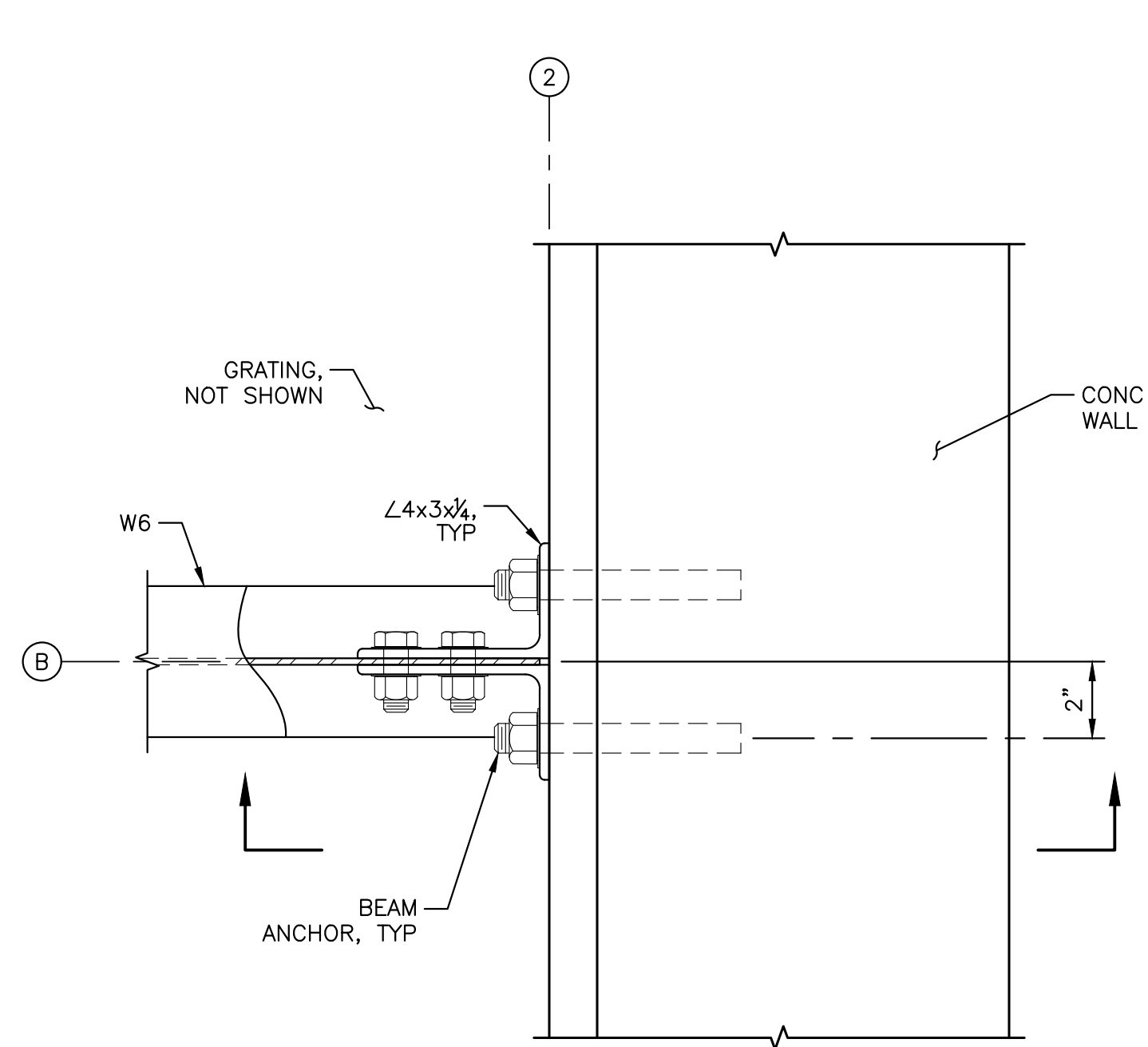
NOTE:
 1. NOTCH GRATING AROUND W8 FLG AT GRIDLINE 1.

DETAIL 2
 SCALE: 1 1/2" = 1'-0"



NOTES:
 1. NOTCH GRATING AROUND BOLTS AT GRIDLINE 1 AS REQD.
 2. GUIDE ANCHOR: 5/8" Ø ASTM A193 GRADE B8 CLASS 1 THREADED ROD, DRILL AND EPOXY, EMBED MIN 5".
 3. ANGLE ANCHOR: 5/8" Ø ASTM A193 GRADE B8 CLASS 1 THREADED ROD, DRILL AND EPOXY, EMBED MIN 5".

DETAIL 3
 SCALE: 1 1/2" = 1'-0"



NOTE:
 1. POST ANCHOR: 5/8" Ø ASTM A193 GRADE B8 CLASS 1 THREADED ROD, DRILL AND EPOXY. EPOXY: HILTI HY-200 OR APPROVED EQUAL; EMBED MIN 5".

DETAIL 4
 SCALE: 1 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
 PARIS CREEK DIVERSION PROJECT
 DIVERSION STRUCTURE
 DROP STRUCTURE SECTIONS
 AND DETAILS 3

DESIGNED G. HORECZY
 DRAWN J. LAHMOM
 CHECKED D. JAMISON
 ISSUED DATE 03/27/24



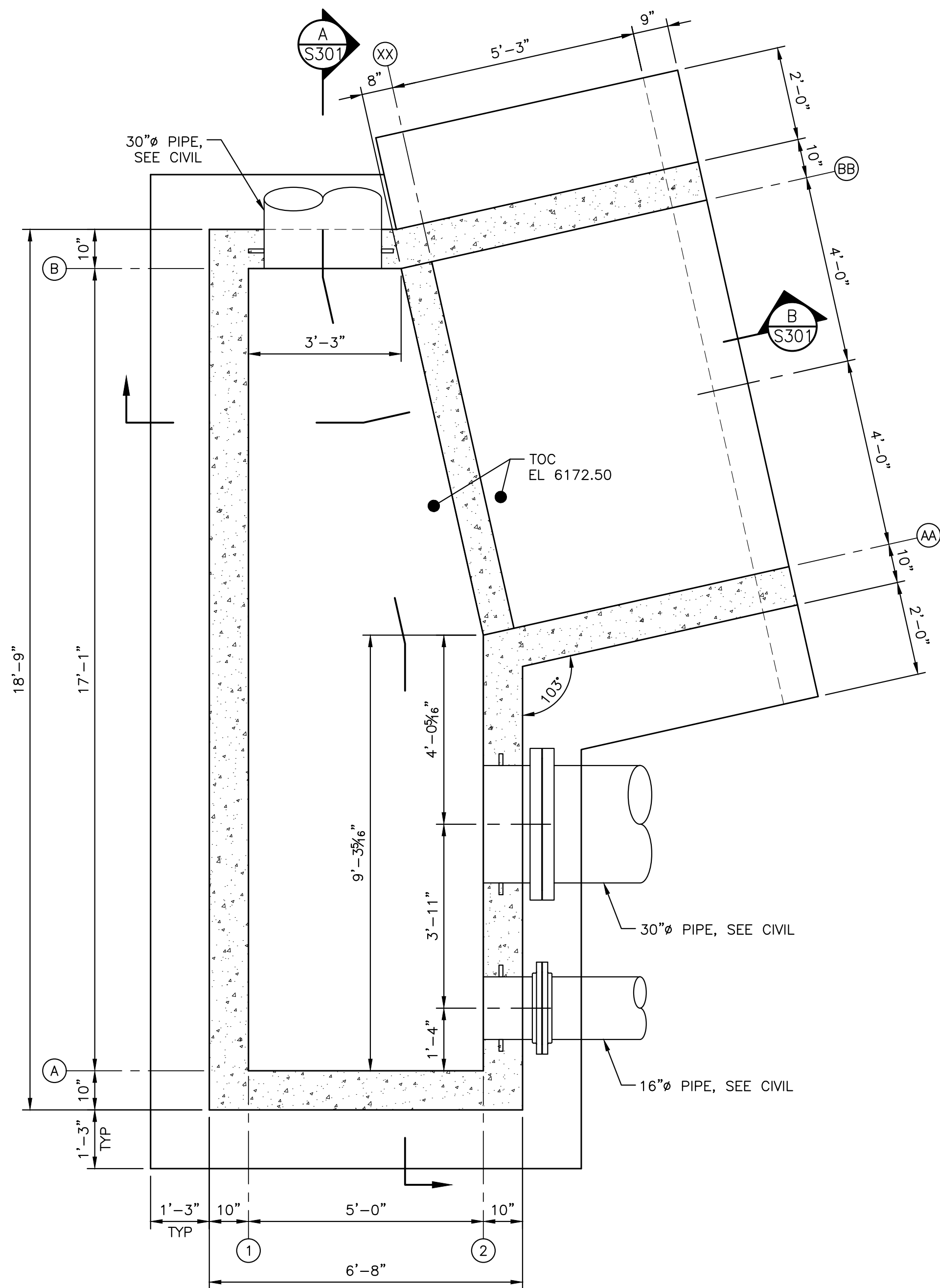
DRAWING
S118
 SCALE: AS NOTED



Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\2201 - Paris Creek Diversion\4-Design\1-CAD\xxxxx.S118.dwg Plot date: Mar 26, 2024 04:01pm, CAD User: User

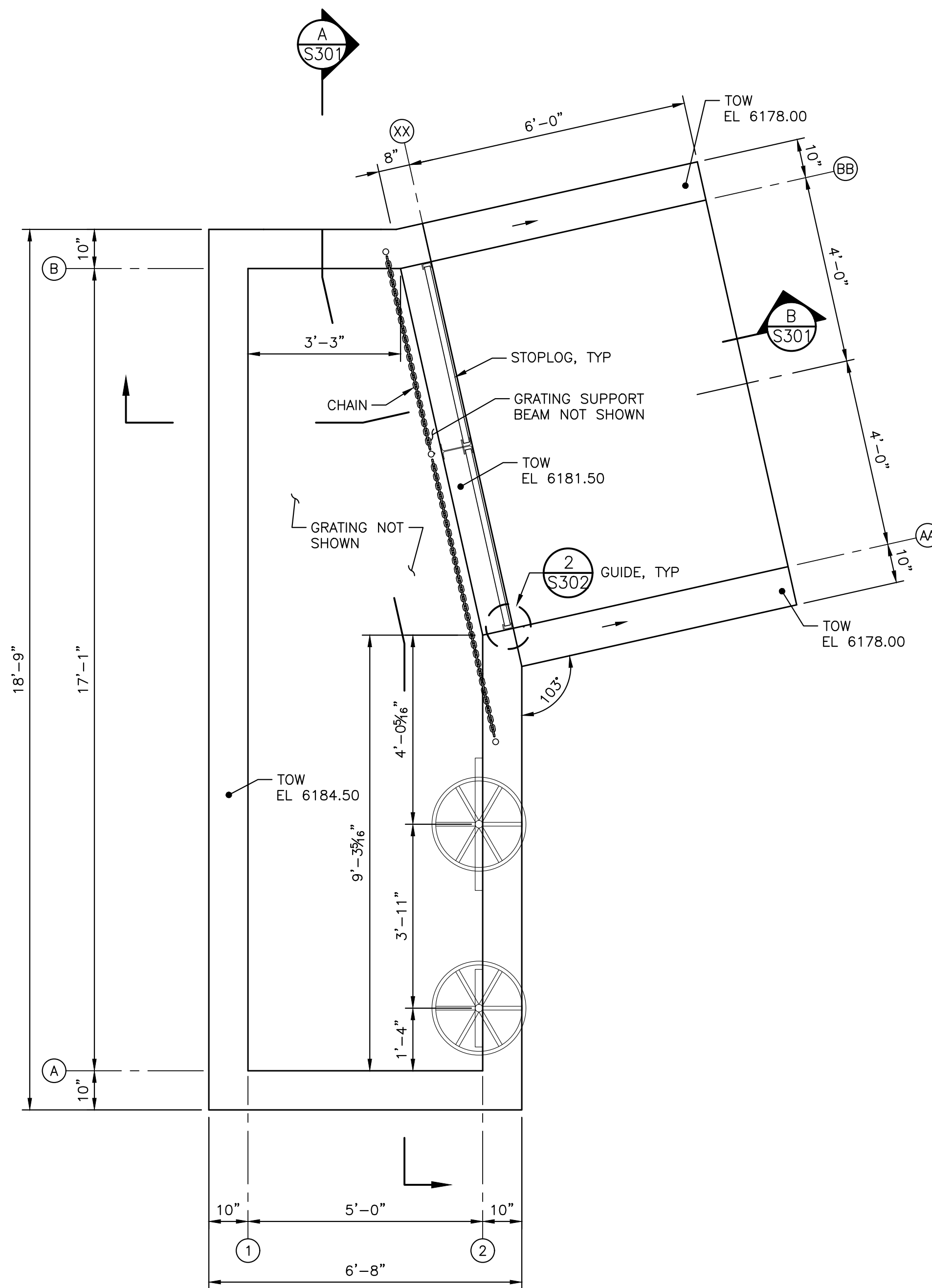
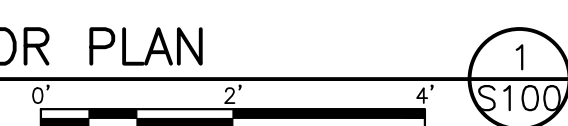
SHEET NOTES:

1. CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS OF EXST TAILRACE STRUCTURE.
2. TOP OF NEW CONC SLAB SHALL MATCH EXST. IF EXST SLAB HAS NON-UNIFORM SLOPE OR IS STEPPED, CONTRACTOR SHALL CUT BACK EXST SLAB AND REFORM TO CREATE SMOOTH TRANSITION ACROSS FLUME BOTTOM.



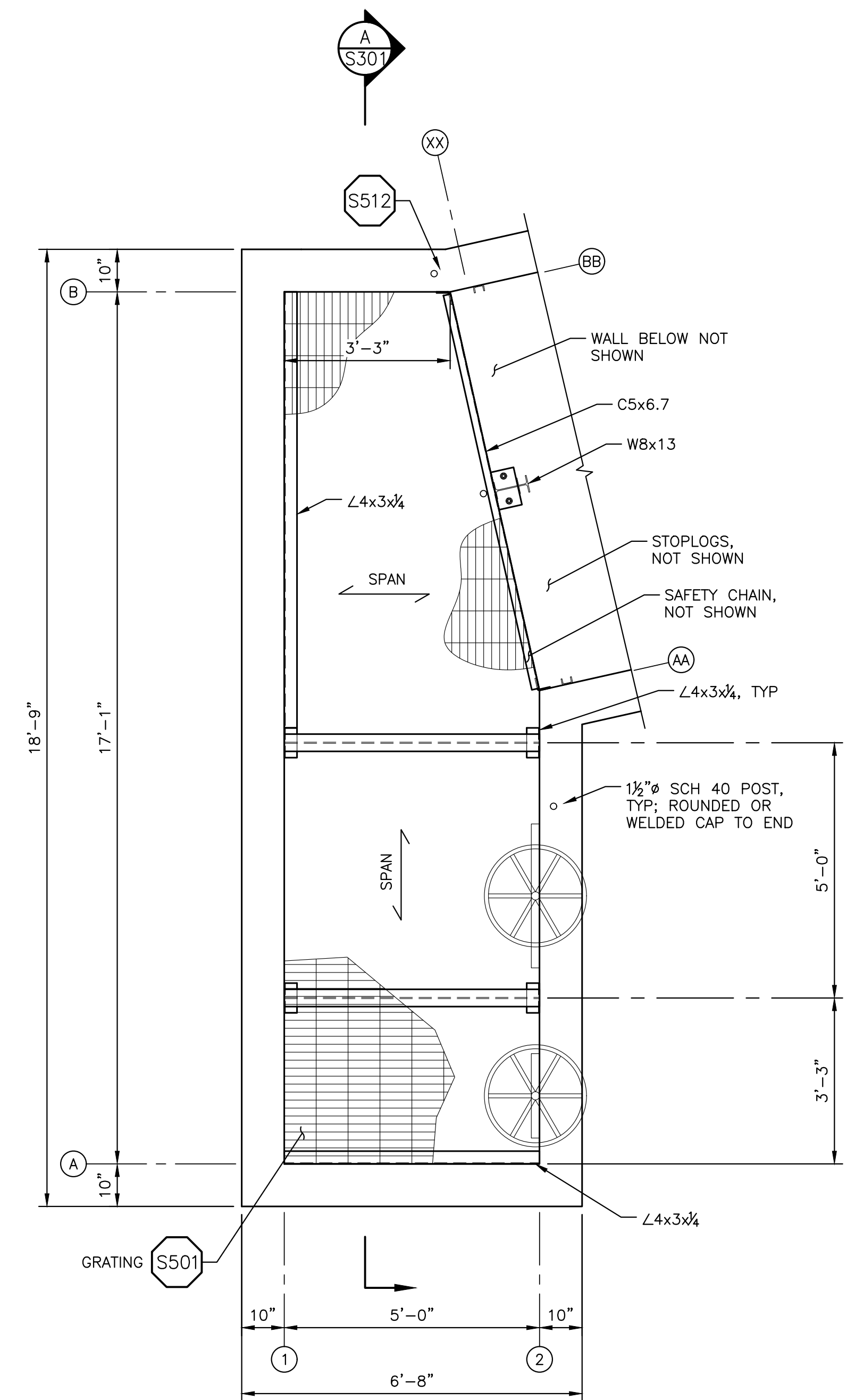
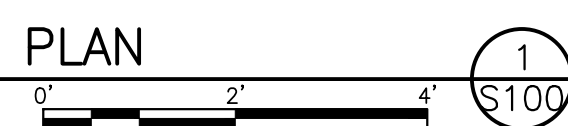
FLOW SPLITTER BOX FLOOR PLAN

SCALE: 1/2" = 1'-0"



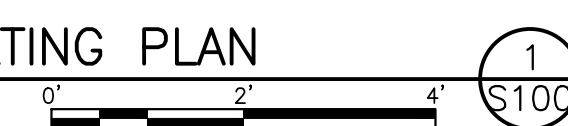
FLOW SPLITTER BOX TOP PLAN

SCALE: 1/2" = 1'-0"



FLOW SPLITTER BOX GRATING PLAN

SCALE: 1/2" = 1'-0"



REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



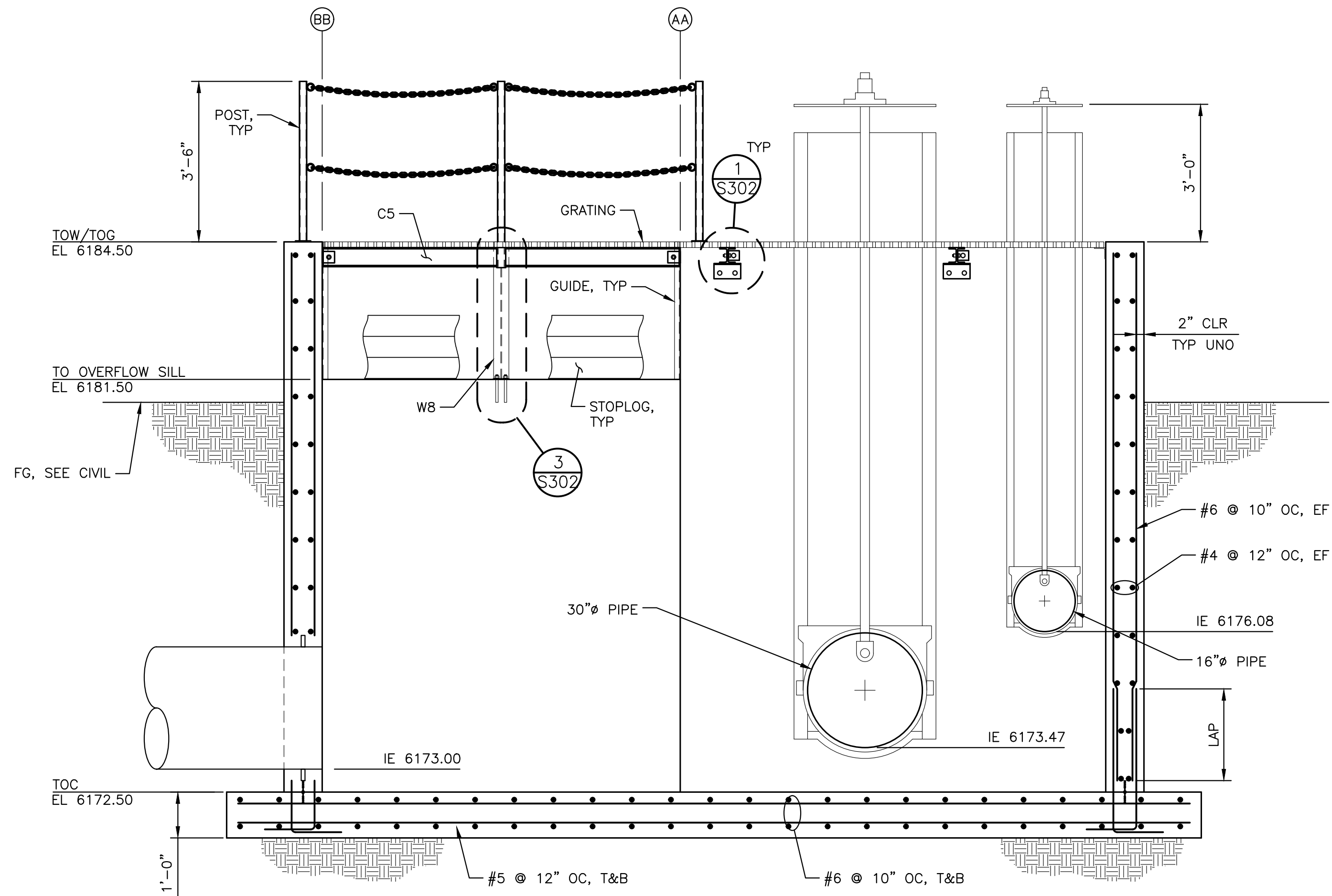
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

FLOW SPLITTER BOX FLOOR AND TOP PLANS

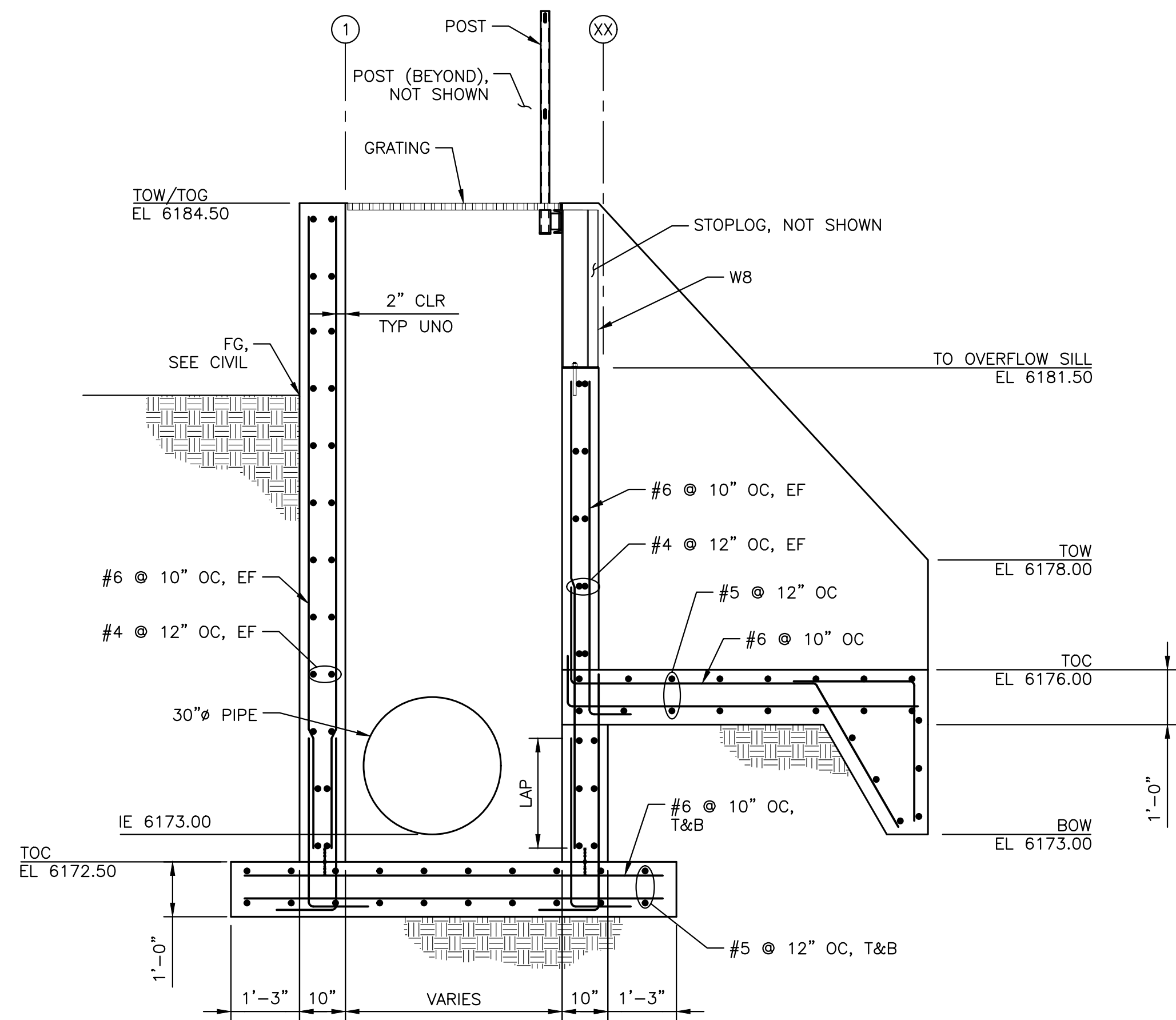
DESIGNED J. FISHER
DRAWN J. LAHMON
CHECKED G. HORECZY
ISSUED DATE 03/27/24



DRAWING
S300
SCALE: AS NOTED



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



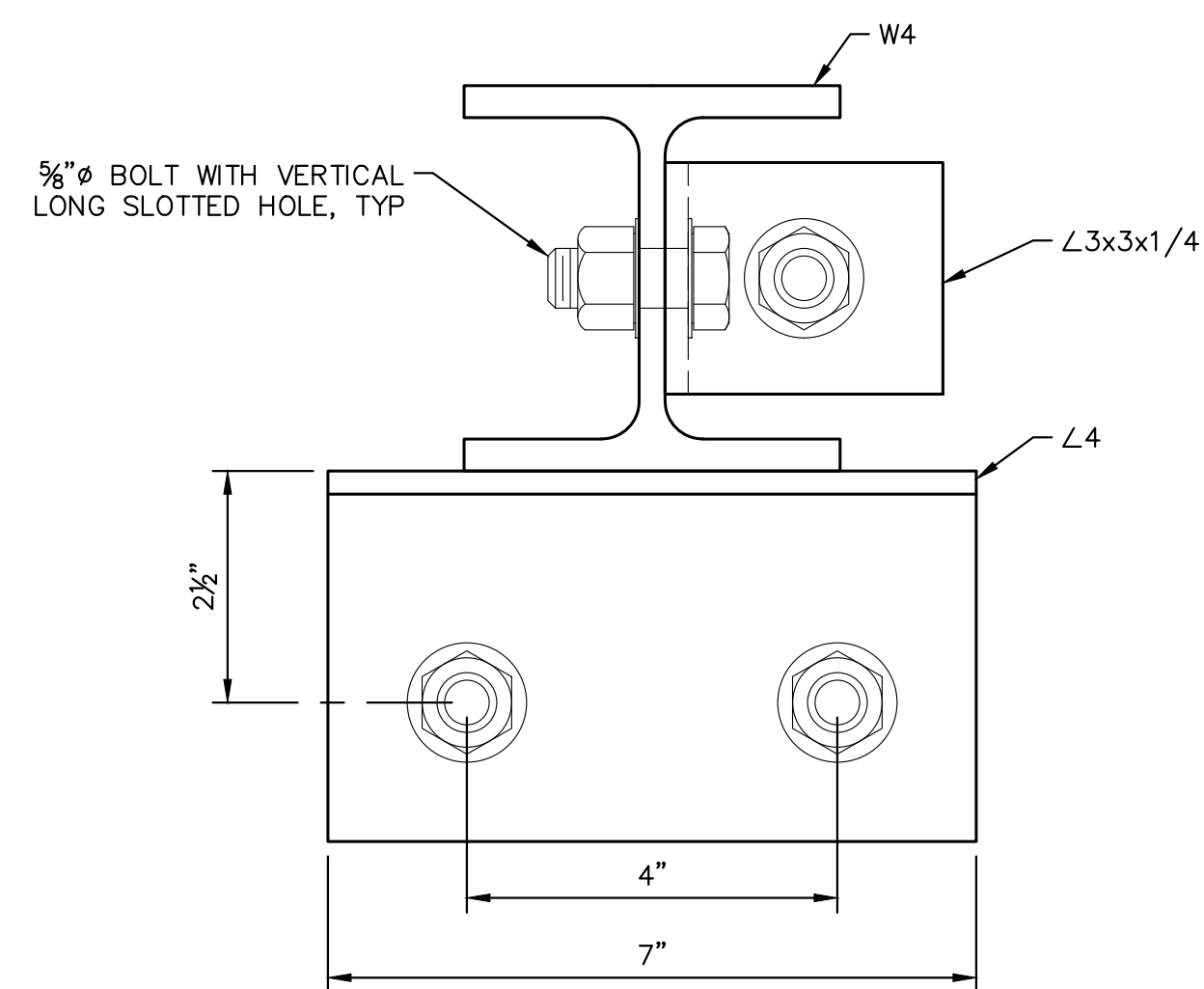
TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT
FLOW SPLITTER BOX SECTIONS

DESIGNED J. FISHER
DRAWN J. LAHMON
CHECKED G. HORECZY
ISSUED DATE 03/27/24



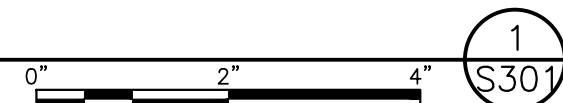
DRAWING
S301
SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\2201 - Paris Creek Diversion\4 - Design\1 CAD\xxxxx.S301.dwg Plot date: Mar 26, 2024 04:02pm, CAD User: User

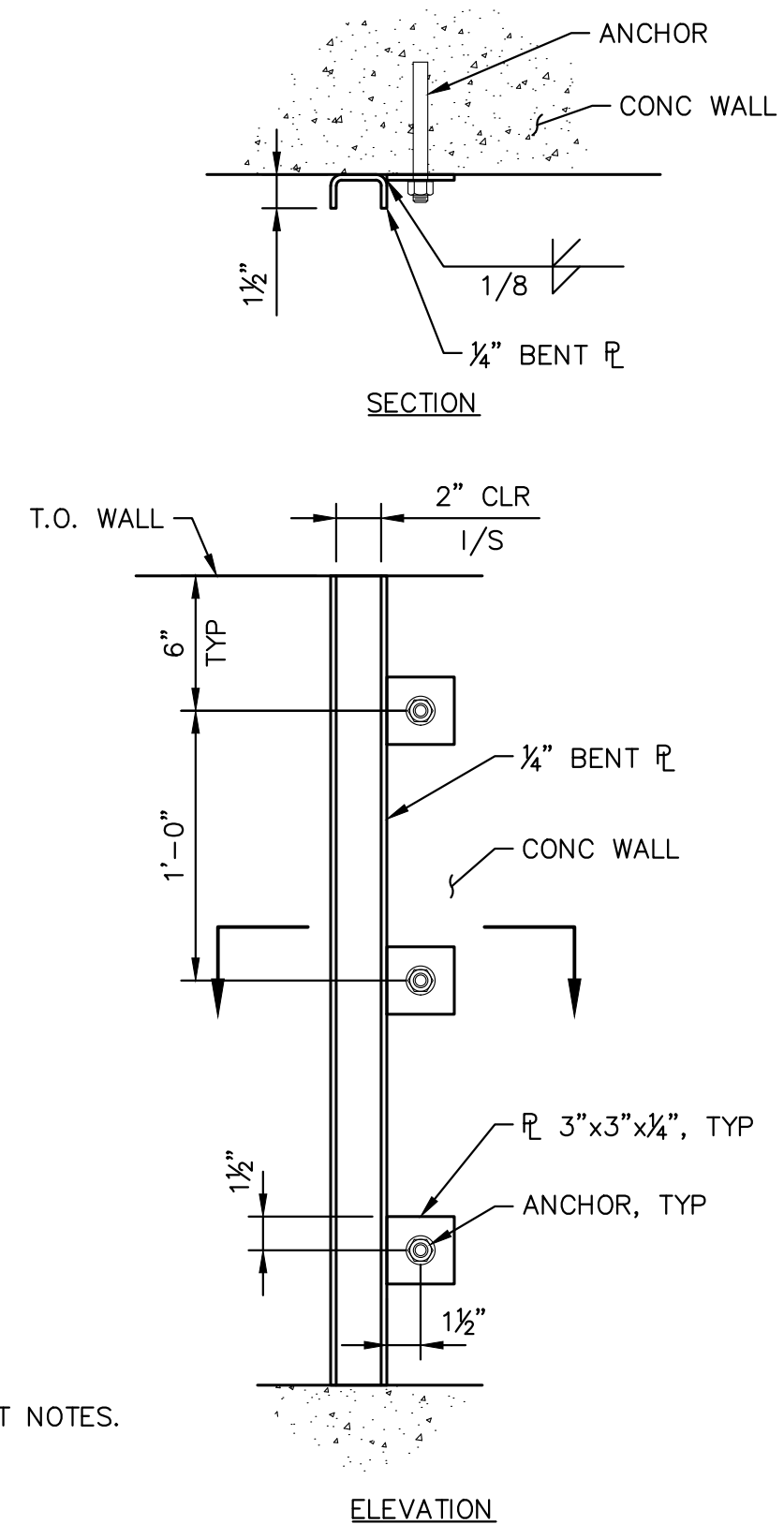


DETAIL

SCALE: 6" = 1'-0"



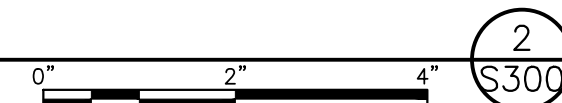
1
S301



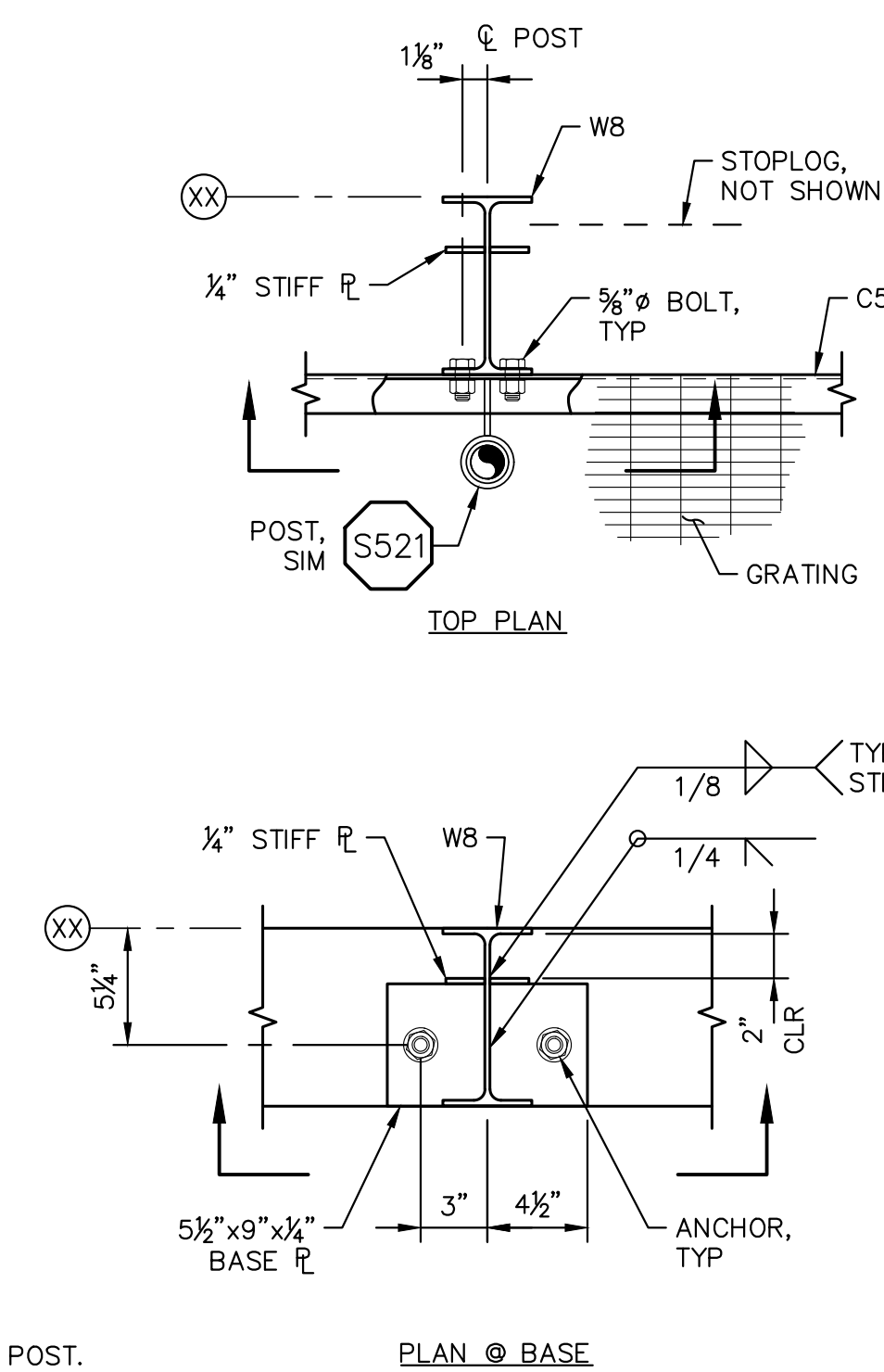
NOTE:
1. ANCHOR: SEE SHEET NOTES.

DETAIL

SCALE: 6" = 1'-0"



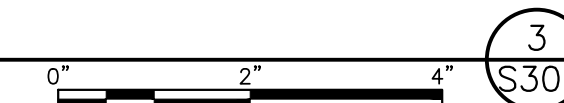
2
S301



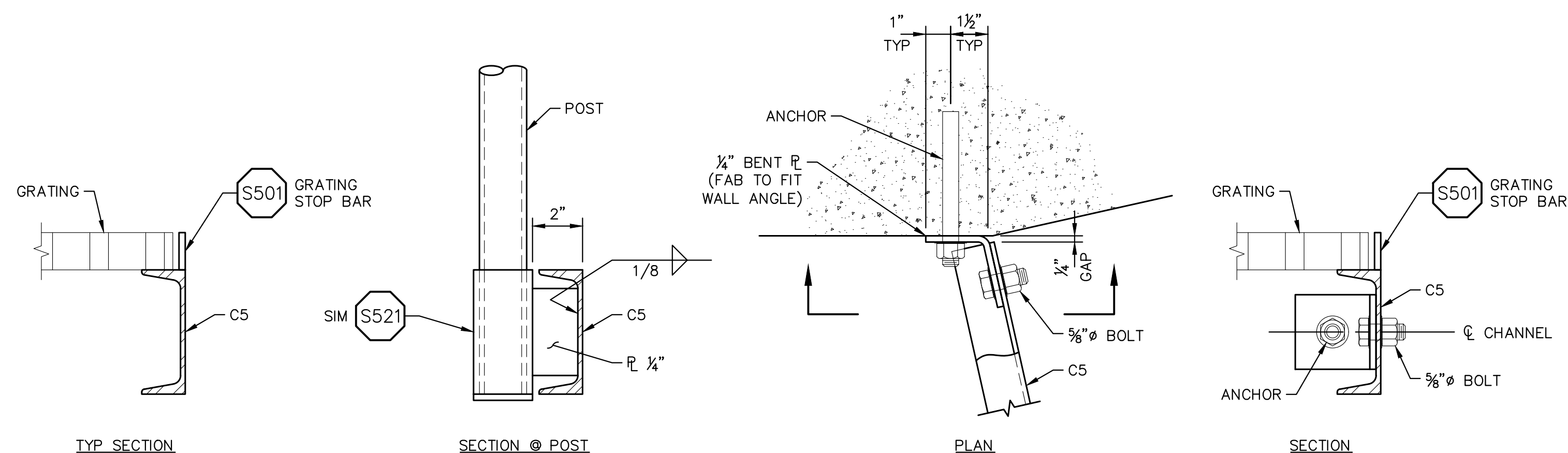
NOTES:
1. CUT GRATING TO FIT AROUND POST.
2. ANCHOR: 5/8" THREADED ROD; EMBED 6".

W8 POST DETAIL

SCALE: 6" = 1'-0"



3
S301

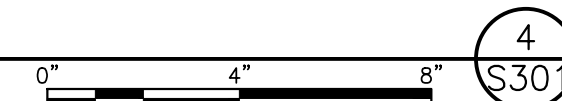


NOTE:
1. ANCHOR: 5/8" THRD ROD; EMBED 5".

CONN TO CONC

CHANNEL DETAIL

SCALE: 3" = 1'-0"

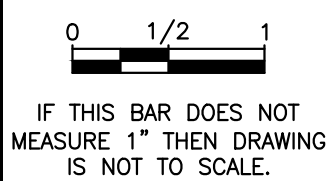


4
S301

SHEET NOTES:

- ALL EPOXY ANCHOR BOLTS SHALL BE HILTI HIT-HY 200 V3 & HAS-V-36 5/8" ROD WITH 5" MIN EMBED.

WARNING



TROUT UNLIMITED
PARIS CREEK DIVERSION PROJECT

FLOW SPLITTER
SECTIONS AND DETAILS

DESIGNED J. FISHER
DRAWN J. LAHMON
CHECKED G. HORECZY
ISSUED DATE 03/27/24



DRAWING
S302
SCALE: AS NOTED

REV	DATE	BY	DESCRIPTION
2	03/27/24	MJW	REISSUED FOR CONSTRUCTION REV 2
1	05/26/23	MJW	REISSUED FOR CONSTRUCTION
0	05/11/23	MJW	ISSUED FOR CONSTRUCTION