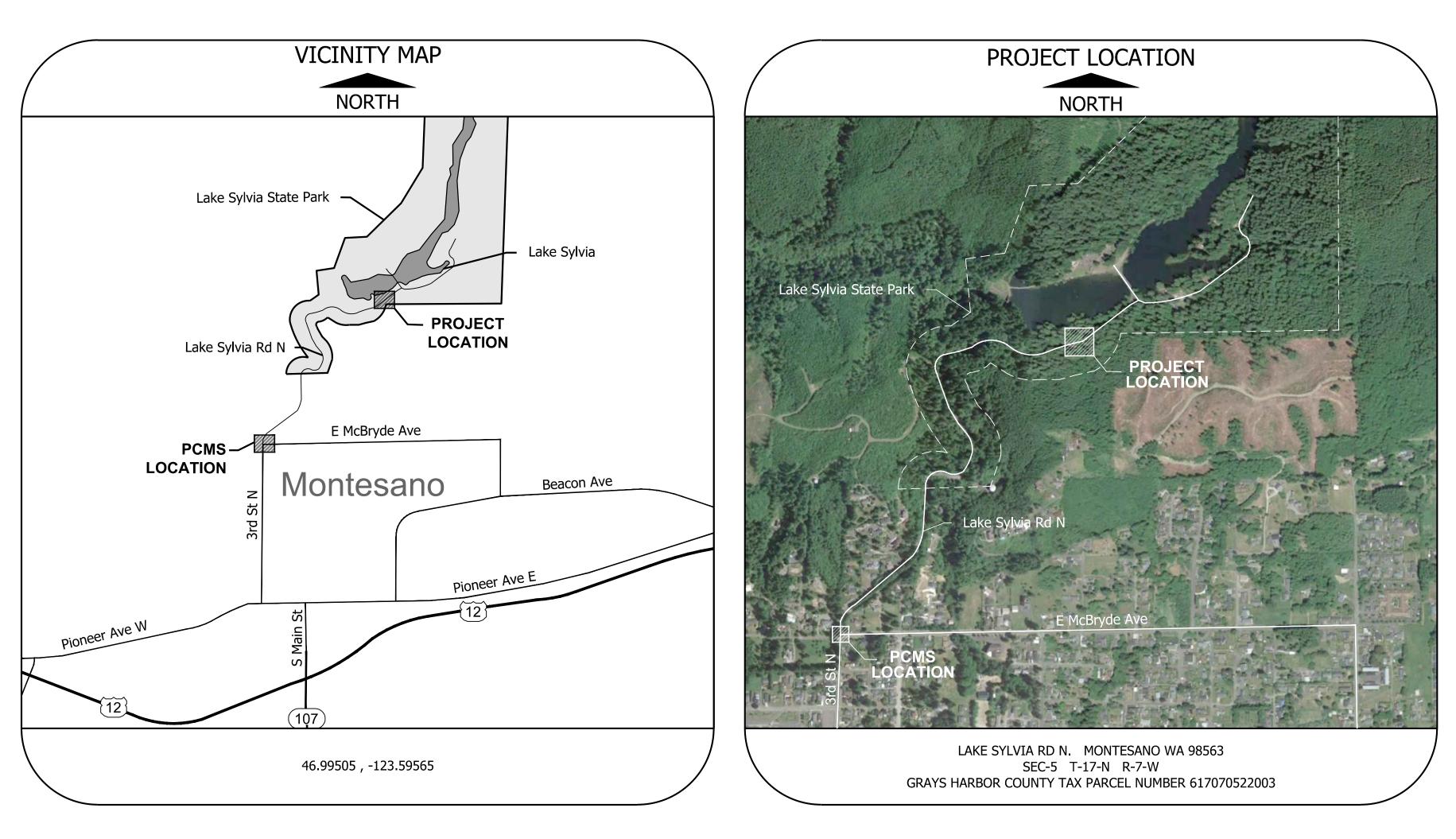
WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

SOPHIA DANENBERG MICHAEL LATIMER ALI RAAD

DIANA DUPUIS, DIRECTOR

LAKE SYLVIA STATE PARK CULVERT REPLACEMENT



LAURIE CONNELLY SCOTT MERRIMAN HOLLY WILLIAMS



AREA MANAGER: JOSEPH FERNANDEZ

	INL	DEX
SHE	ΈT	DESCRIP
$\begin{array}{c} C1.0\\ C1.1\\ C1.2\\ C2.0\\ C3.0\\ C3.1\\ C4.0\\ C4.1\\ C5.0\\ C5.1\\ C6.0\\ C7.0\\ C7.1\\ C7.2\\ C7.3\\ C7.4\\ C8.0\\ C9.0\\ C9.1\\ C9.2\\ C10.0\\ C9.1\\ C9.2\\ C10.0\\ C9.1\\ C12.2\\ C12.0\\ C12.1\\ C12.2\\ C12.3\\ S1.0\\ S3.0\\ S3.1\\ S4.0\\ S4.1\\ S5.0\\ S6.0\\ \end{array}$		COVER SH PROJECT SUMMARY SURVEY/E SITE PREI TREE REM TESC PLA TESC PLA TESC PLA TESC PLA TESC NOT ROAD HO STREAM H TEMPORA ROADWAY ROADWAY ROADWAY ROADWAY GUARDRA GUARDRA GUARDRA GUARDRA GUARDRA ROAD CLO TEMPORA UTILITY F UTILITY F UTILITY F STREAM F STRE

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HEET **TEAM & NOTES** / OF QUANTITIES EXISTING CONDITIONS EP & DEMO PLAN MOVAL PLAN TES DRIZONTAL CONTROL PLAN HORIZONTAL CONTROL PLAN ARY STREAM DIVERSION PLAN Y PLAN & PROFILE Y TYPICAL SECTION Y DETAILS AIL & STRIPING PLAN AIL DETAILS OSURE PLAN ARY UTILITY RELOCATION PLAN **RELOCATION DETAILS - WATER** PLAN PLAN PROFILE AND CROSS SECTION DETAILS G PLAN **G DETAILS** G DETAIL GN, & BRIDGE APPROACH PAVING LOCATIONS IGN DETAILS TAILS APPROACH PAVING GENERAL NOTES, TYPICAL SECTION PLAN AND ELEVATION TION PLAN NT ELEVATION AND SECTION ALL DETAILS TION WALL ELEVATIONS **DTECTION DETAILS** SHOP DRAWINGS

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03/21/2024 date

APPROVED FOR CONSTRUCTION

REGION MANAGE

Kyle Murphy

CAPITAL PROGRAM MANAG

03/26/2024

date

ENGINEER & PROJECT LEAD:



STRUCTURAL ENGINEER:



KPFF CONSULTING ENGINEERS 1601 FIFTH AVE SUITE 1600

KPFF CONSULTING ENGINEERS

SUITE 100

LACEY, WA 98503

SEATTLE, WA 98101

www.kpff.com

www.kpff.com

612 WOODLAND SQUARE LOOP SE

PROJECT CIVIL ENGINEER TELEPHONE: (360) 292-7230 matthew.miskovic@kpff.com

MATTHEW MISKOVIC, PE

AARON OLSON, PE PROJECT STRUCTURAL ENGINEER TELEPHONE: (425) 314-3431 aaron.olson@kpff.com

PROPERTY NOTES

LAKE SYLVIA STATE PARK PROPERTY ADDRESS: LAT: 46.99505

PARCEL TAX NUMBER(S): PROPERTY DESCRIPTION : LAKE SYLVIA RD N MONTESANO, WA LONG: -123.59565

MONTE AC TAX 58A

617070522003

APPROX AR AVE BCR BLDG BLVD BMP BO CB CO CPP DI DIA DWG Е ECP ELEV EΡ EΧ FDC FF FΜ

PROJECT TEAM

OWNER: STATE OF WASHINGTON PARKS AND RECREATION COMMISSION 1111 ISRAEL ROAD SOUTHWEST POST OFFICE BOX 42650 OLYMPIA, WASHINGTON 98504-2650 www.parks.wa.gov

OWNER'S REPRESENTATIVE: WASHINGTON STATE PARKS AND RECREATION COMMISSION 1111 ISRAEL ROAD SOUTHWEST OLYMPIA, WASHINGTON 98504-2650

> BRIAN YEAROUT SW CAPITAL REGION MANAGER TELEPHONE: (360) 725-9763 CELL: (360) 581-0390 brian.yearout@parks.wa.gov



PROJECT ARCHITECTURAL AND ENGINEERING CONSULTANTS

LAND SURVEYOR:



JAMESTOWN LAND SURVEY 431 BUSINESS PARK LOOP SEQUIM, WA 98362 www.jamestownlandsurvey.com TOBY BAUER, PLS SURVEYOR MANAGER TELEPHONE: (360) 683-4586 survey@jamestowntribe.org

ABBREVIATIONS

APPROXIMATELY	FT	FEET	RD	ROOF DRAI
AIR RELEASE	GA	GAUGE	S	SOUTH, SLC
AVENUE	GRVL	GRAVEL	SCH	SCHEDULE
BEGINNING OF CURB RETURN	HDPE	HIGH DENSITY POLYETHYLENE	SE	SOUTHEAST
BUILDING	HORIZ, HORZ	HORIZONTAL	SEC	SECTION
BOULEVARD	IE	INVERT ELEVATION	SF	SQUARE FEI
BEST MANAGEMENT PRACTICE	LF	LINEAR FEET	SD	STORM DRA
BLOW-OFF	MAX	MAXIMUM	SS	SANITARY S
CATCH BASIN	MECH	MECHANICAL	SSMH	SEWER MAN
CLEANOUT	MIN	MINIMUM	ST	STREET
CORRUGATED POLYETHYLENE PIPE	MJ	MECHANICAL JOINT	STA	STATION
DUCTILE IRON	Ν	NORTH, NORTHING	STD	STANDARD
DIAMETER	NE	NORTHEAST	SW	SOUTHWES
DRAWING	NIC	NOT IN CONTRACT	Т	TOWNSHIP
EAST, EASTING	NTS	NOT TO SCALE	TYP	TYPICAL
END OF CURB RETURN	NW	NORTHWEST	VERT	VERTICAL
ELEVATION	PC	POINT OF CURVE	VC	VERTICAL C
EDGE OF PAVEMENT	PI	POINT OF TANGENT INTERSECTION	VPC	VERTICAL P
EXISTING	POC	POINT OF CONNECTION	VPT	VERTICAL P
FIRE DEPARTMENT CONNECTION	PT	POINT OF TANGENT	W	WEST
FINISHED FLOOR	PVC	POLYVINYL CHLORIDE	W/	WITH
FORCE MAIN	R	RANGE, RADIUS	WM	WATER MAI

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RAIN, ROAD SLOPE AST FEET

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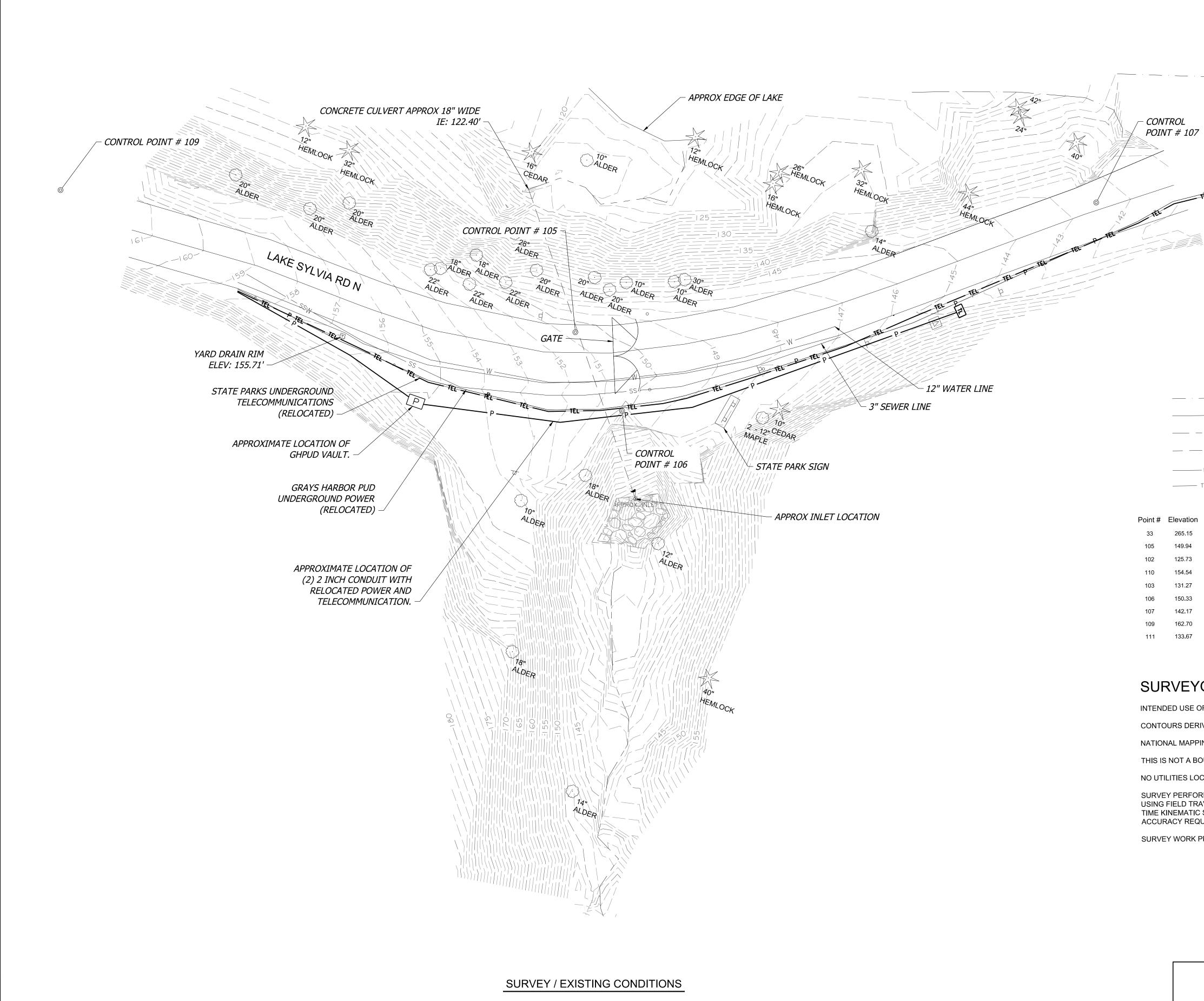
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	SUMMARY OF QUANTITIES		
ITEM NO.	DESCRIPTION	UNIT	EST QT
1	MOBILIZATION	LS	1
2	CLEARING AND GRUBBING	ACRE	0.5
3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
4	ROADWAY EXCAVATION INCL. HAUL	CY	450
5	GRAVEL BORROW INCL. HAUL	TON	260
6	CHANNEL EXCAVATION INCL. HAUL	CY	2580
7	QUARRY SPALLS	TON	4
8	SOLID WALL PVC STORM SEWER PIPE 12 IN. DIAM.	LF	17
9	SOLID WALL PVC STORM SEWER PIPE 8 IN. DIAM.	LF	90
10	CATCH BASIN TYPE 1	EACH	4
11	UNDERDRAIN PIPE 6 IN. DIAM.	LF	50
12	STREAMBED SEDIMENT	TON	60
13	STREAMBED COBBLES 10"	TON	60
14	TEMPORARY STREAM DIVERSION	LS	1
15	STRUCTURE EXCAVATION CLASS A INCL. HAUL	CY	1100
16	SHORING OR EXTRA EXCAVATION CL. A	CY	2000
17	STRUCTURAL EARTH WALLS	SF	2700
18	FALL PROTECTION RAILING	LF	110
19	BRIDGE INSTALLATION	LS	1
20	DUCTILE IRON SEWER PIPE 3 IN. DIAM.	LF	55
21	HDPE SEWER PIPE 3 IN. DIAM.	LF	120
22	DUCTILE IRON PIPE FOR WATER MAIN 12 IN. DIAM.	LF	150
23	GATE VALVE 12 IN.	EACH	2
24	CRUSHED SURFACING BASE COURSE	TON	420
25	CRUSHED SURFACING TOP COURSE	TON	110
26	HMA CL. ½ IN. PG 58H-22	TON	170
27	EROSION CONTROL AND WATER POLLUTION PREVENTION	LS	1
28	SEEDING, FERTILIZING, & MULCHING	ACRE	0.3
29	COIR LOG	LF	1200
30	PSIPE RED ALDER (#2 CONT.)	EACH	25
31	PSIPE WESTERN HEMLOCK (#2 CONT.)	EACH	13
32	PSIPE WESTERN RED CEDAR (#2 CONT.)	EACH	13
33	PSIPE SALMONBERRY (#1 CONT.)	EACH	117
34	PSIPE SALAL (#1 CONT.)	EACH	32
35	PSIPE WESTERN SWORDFERN (#1 CONT.)	EACH	163
36	PSIPE VINE MAPLE (#1 CONT.)	EACH	40
37	PSIPE OSOBERRY (#1 CONT.)	EACH	60
38	PSIPE THIMBLEBERRY (#1 CONT.)	EACH	39
39	PSIPE RED ELDERBERRY (#1 CONT.)	EACH	32
40	PSIPE DEVILS CLUB (#1 CONT.)	EACH	32
41	PSIPE PACIFIC NINEBARK (#1 CONT.)	EACH	7
42	PSIPE CASCARA (#1 CONT.)	EACH	7
43	PSIPE SLOUGH SEDGE (PLUG)	EACH	2697
44	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1
45	PERMANENT SIGNING	LS	1
46		LF	275
47	AES. TR. BEAM GUARDRAIL TYPE 31 – 8 FT. LONG POST	LF	305
48	AES. TR. BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	EACH	2
49	AES. TR. BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	LF	65
50	AES. TR. BEAM GUARDRAIL TRANSITION SECTION TYPE 24	EACH	4
51	MINOR CHANGE	LS	1
52	SPCC PLAN	LS	1
53	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL	CY	700
54	GRAVEL BACKFILL FOR DRAIN	CY	15
55	CEMENT CONC PAVEMENT CL 4000	SY	40
56	TEMPORARY UTILITY RELOCATION	LS	1

ALL QUANTITIES ARE APPROXIMATE AND PROVIDED FOR CONTRACTORS CONVENIENCE. CONTRACTOR IS EXPECTED TO VISIT THE SITE AND DETERMINE FINAL VALUES.

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SHEET 3 OF 49	PARKS FILE#			



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TROL POINT		NO.
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EPHONE PULL BOX	DESIGNED MTM 02/23/24 DRAWN KMS 02/23/24	
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ROXIMATE LOCATION CULVERT	PROTECTSTERIE	
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Description	REGISTERED STAMP	_
Set Hub and Tack Set Hub and Tack	WASHINGTON	
Found Spike	STATE STATE	
Set Hub and Tack Found Spike		
Set Hub and Tack	PARKS	
Set PKNail w/Flasher	AND	
Set PKNail w/Flasher Set Hub and Tack	RECREATION	
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S		
GINEERING DESIGN		
IELD OBSERVATIONS	LAKE SYLVIA	
E-HALF THE CONTOUR INTERVAL	STATE PARK	
ON THIS SURVEY		
AL STATION AND/OR GNSS RECEIVE D RELATIVE STATIC AND/OR REAL SURVEY MEETS OR EXCEEDS		
NED IN WAC 332.130.090		
OF 2022	CULVERT	
	<u>REPLACEMENT</u>	
/		
	SURVEY/EXISTING	
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SHEET 4 OF 49	PARKS FILE#	

LEGEND

\$	CONTROL POINT
П	SIGN
0	GUARD POST
TL	TELEPHONE PULL BOX
\triangleright	CONCRETE PAD FOR TRANSFORMER
×	CONIFEROUS TREE
\odot	DECIDUOUS TREE
·	EDGE OF GRAVEL
	EDGE OF LAKE
	CREEK CENTERLINE
	APPROXIMATE LOCATION CULVERT
P	POWER CONDUIT
TEL	TELECOMMUNICATIONS CONDUIT

levation	Northing	Easting	Description
265.15	621044.67	866592.01	Set Hub and Tack
149.94	621128.85	868121.25	Set Hub and Tack
125.73	621800.39	868477.66	Found Spike
154.54	621129.64	867957.80	Set Hub and Tack
131.27	621458.24	868613.86	Found Spike
150.33	621106.42	868148.26	Set Hub and Tack
142.17	621244.78	868291.57	Set PKNail w/Flasher
162.70	621111.03	867916.29	Set PKNail w/Flasher
133.67	621298.78	868333.32	Set Hub and Tack

SURVEYOR'S NOTES

INTENDED USE OF MAP FOR CIVIL ENGINEERING DESIGN

CONTOURS DERIVED FROM DIRECT FIELD OBSERVATION

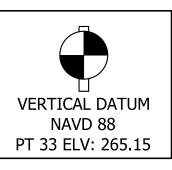
NATIONAL MAPPING STANDARDS. ONE-HALF THE CONTO

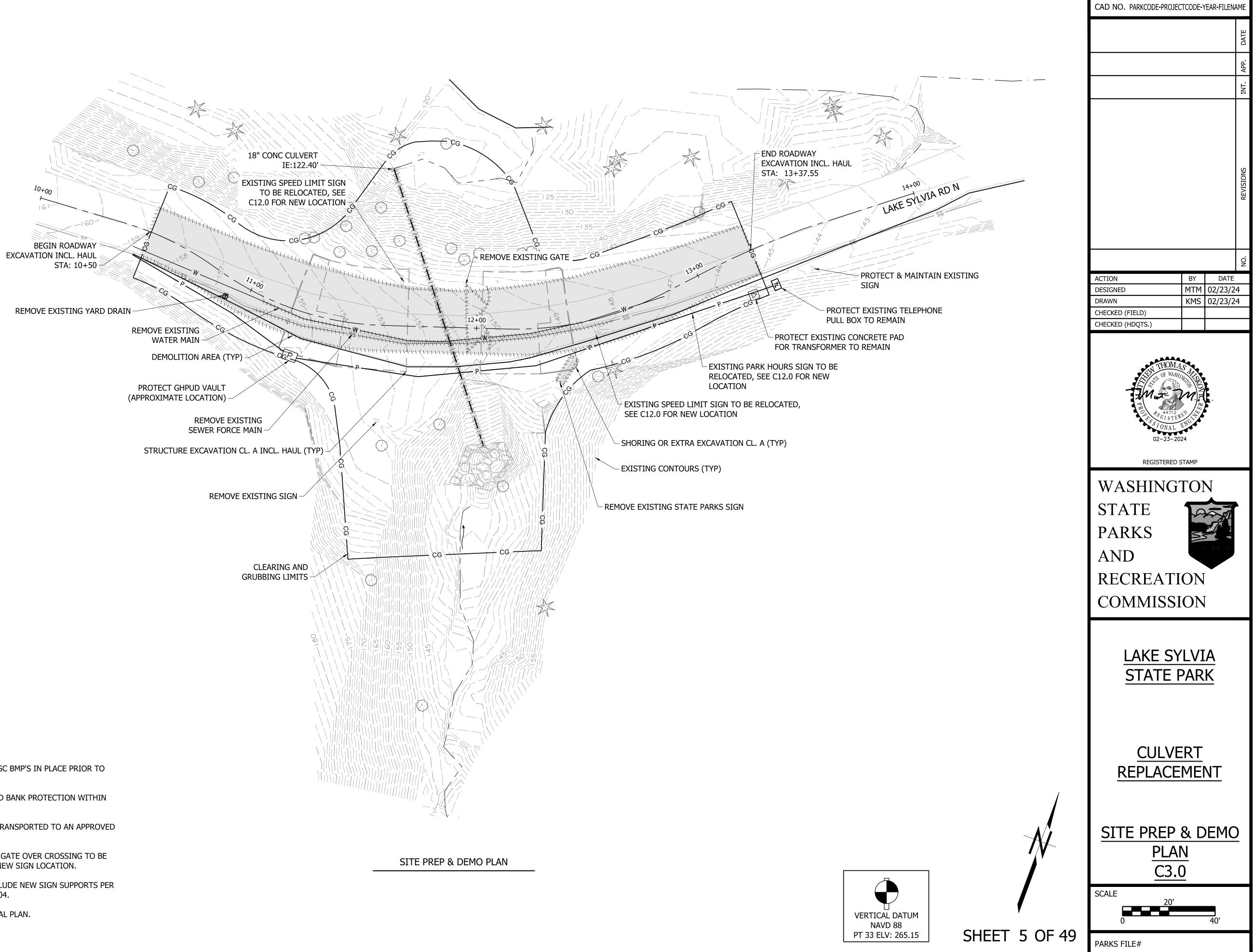
THIS IS NOT A BOUNDARY SURVEY

NO UTILITIES LOCATES PERFORMED ON THIS SURVEY

SURVEY PERFORMED WITH A 3" TOTAL STATION AND/OR USING FIELD TRAVERSE, GNSS BASED RELATIVE STATIC TIME KINEMATIC SURVEY METHODS. SURVEY MEETS OR ACCURACY REQUIREMENTS CONTAINED IN WAC 332.130.

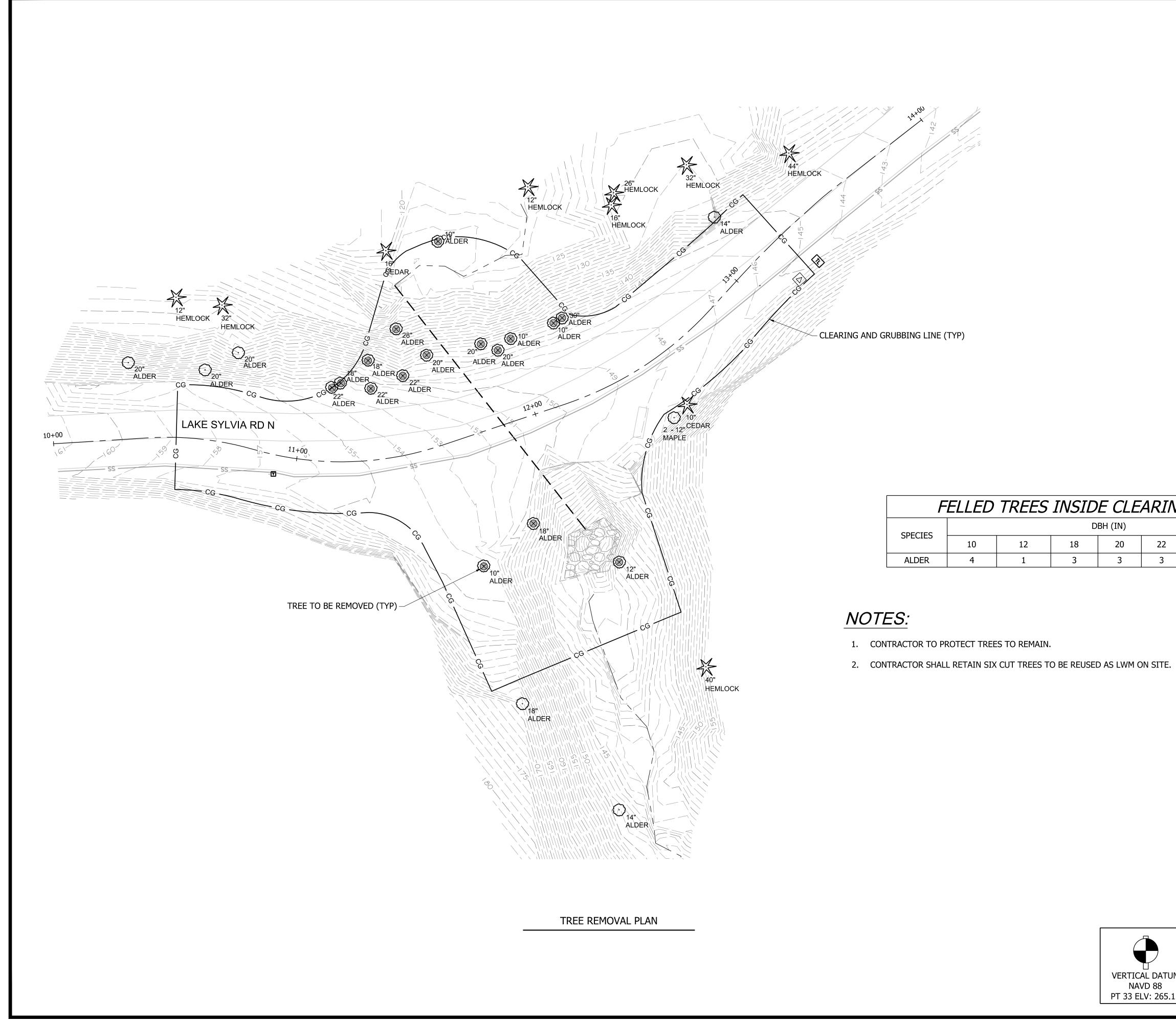
SURVEY WORK PERFORMED IN JULY OF 2022



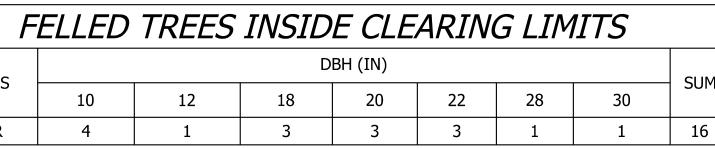


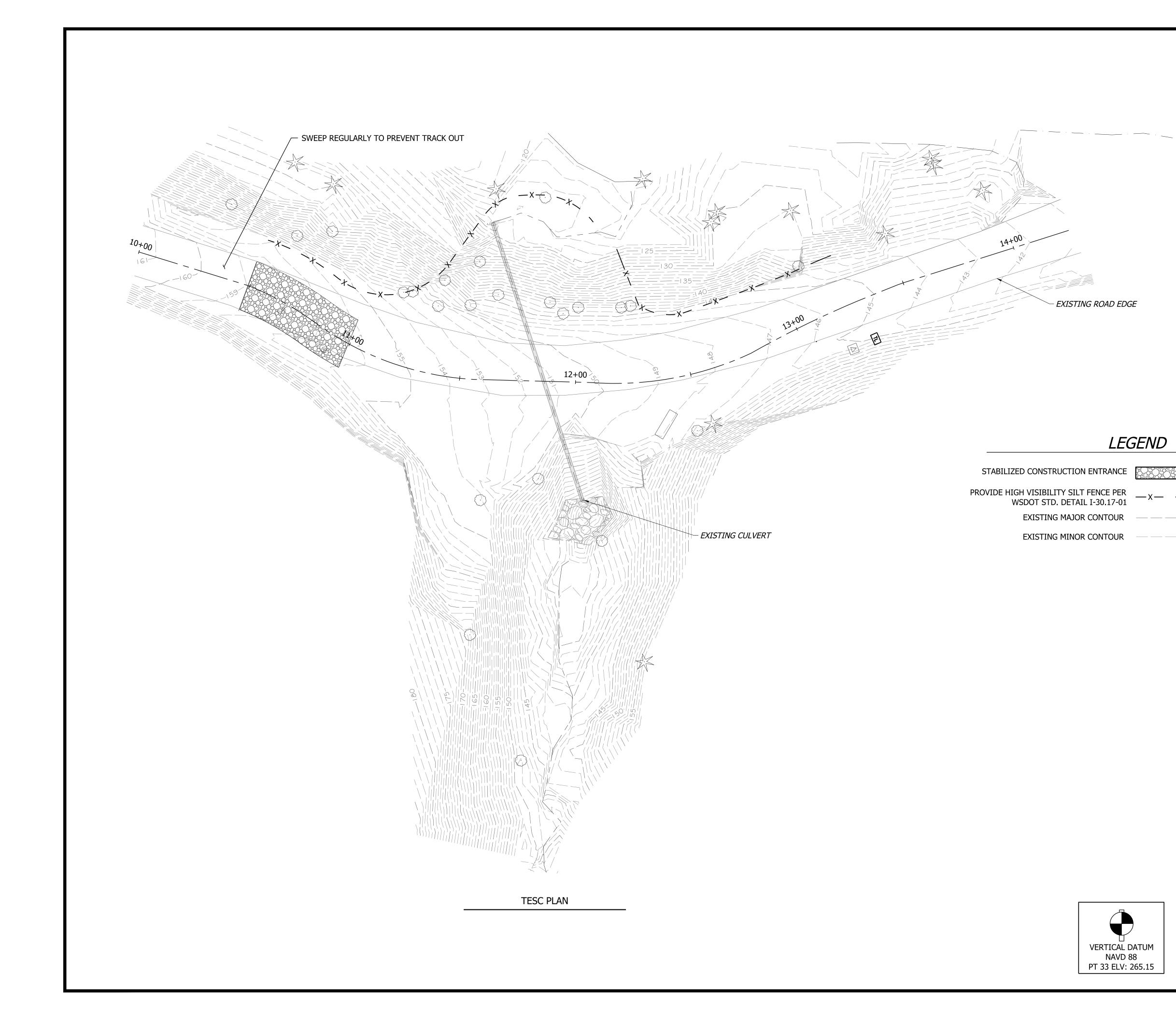
DEMO NOTES:

- 1. CONTRACTOR SHALL HAVE ALL TESC BMP'S IN PLACE PRIOR TO CONSTRUCTION.
- 2. REMOVE ALL EXISTING RIPRAP AND BANK PROTECTION WITHIN EXCAVATION LIMITS.
- 3. EXCAVATED MATERIAL SHALL BE TRANSPORTED TO AN APPROVED WASTE SITE.
- 4. STATE PARK ENTRANCE SIGN AND GATE OVER CROSSING TO BE REMOVED. SEE SHEET C12.0 FOR NEW SIGN LOCATION.
- 5. ALL RELOCATED SIGNS SHALL INCLUDE NEW SIGN SUPPORTS PER WSDOT STANDARD PLAN G-22.10-04.
- 6. SEE SHEET C3.1 FOR TREE REMOVAL PLAN.

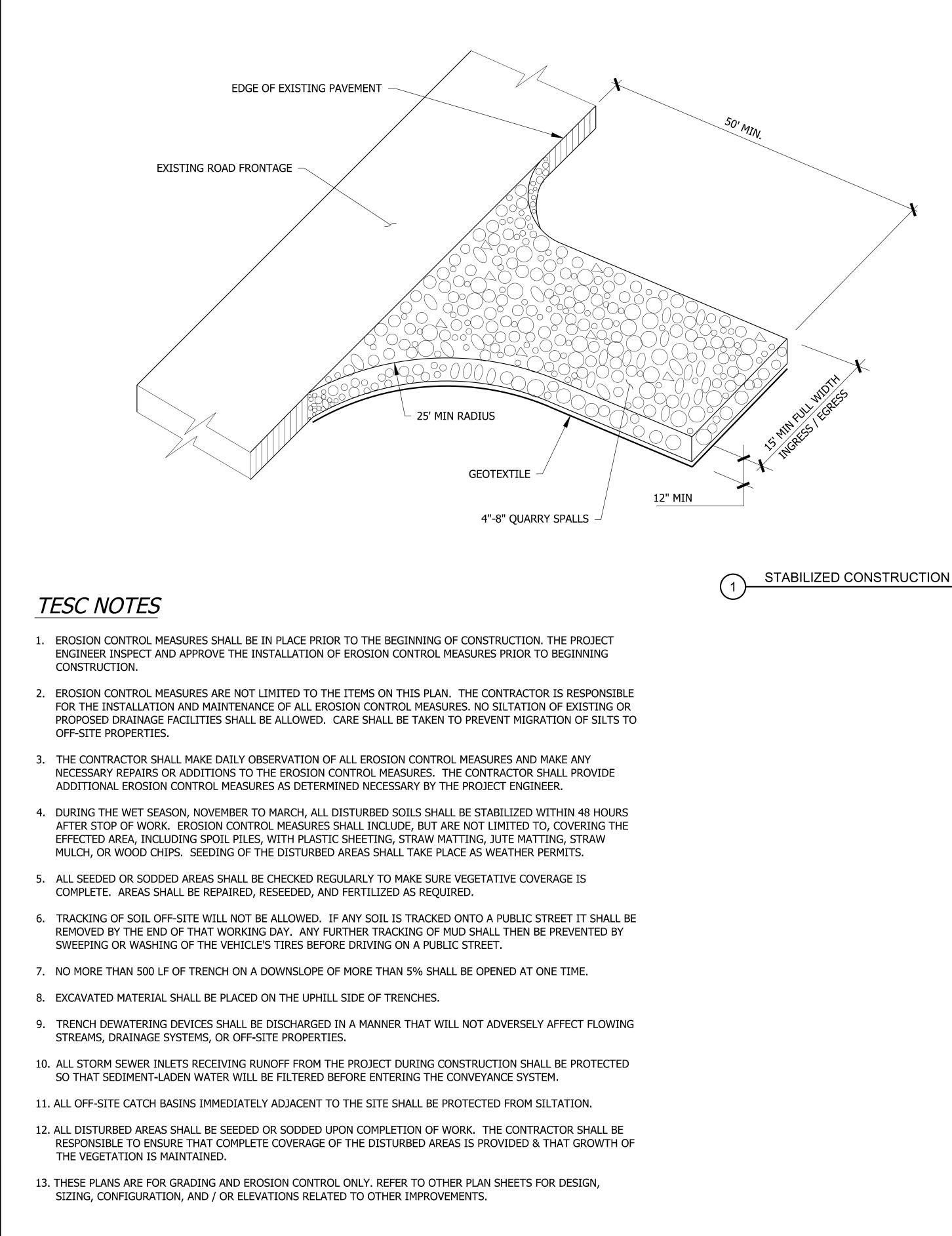


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	<u>TREE REMOVAI</u> <u>C3.1</u>	<u> PLAN</u>
	SCALE 20'	40'
SHEET 6 OF 49	PARKS FILE#	





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XX	WASHINGTON STATE PARKS AND RECREATION COMMISSION	
	<u>LAKE SYLVIA</u> <u>STATE PARK</u>	
	<u>CULVERT</u> <u>REPLACEMENT</u>	
	<u>TESC PLAN</u> <u>C4.0</u>	
	SCALE 20'	
SHEET 7 OF 49	PARKS FILE#	

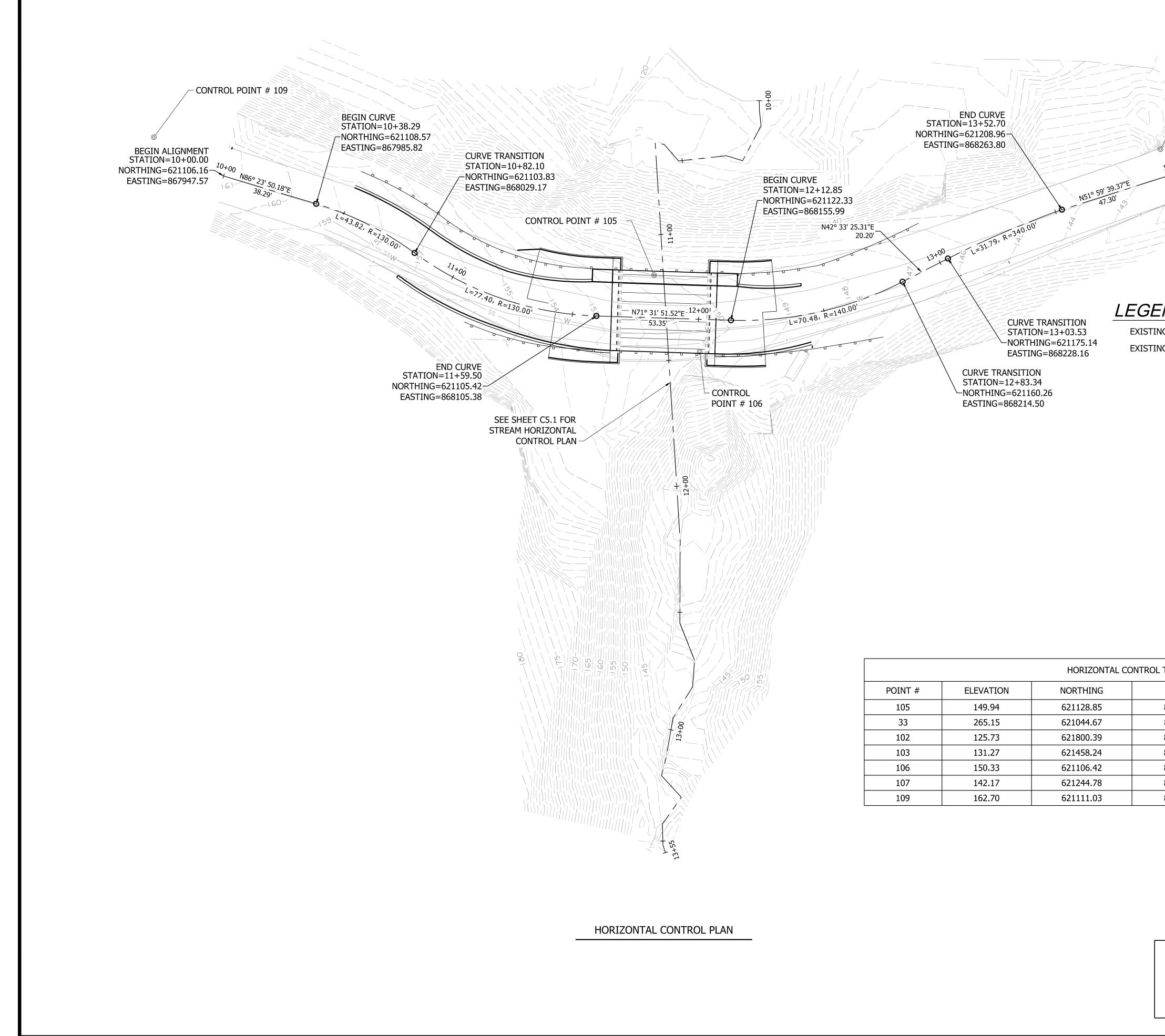


CONSTRUCTION ENTRANCE NOTES:

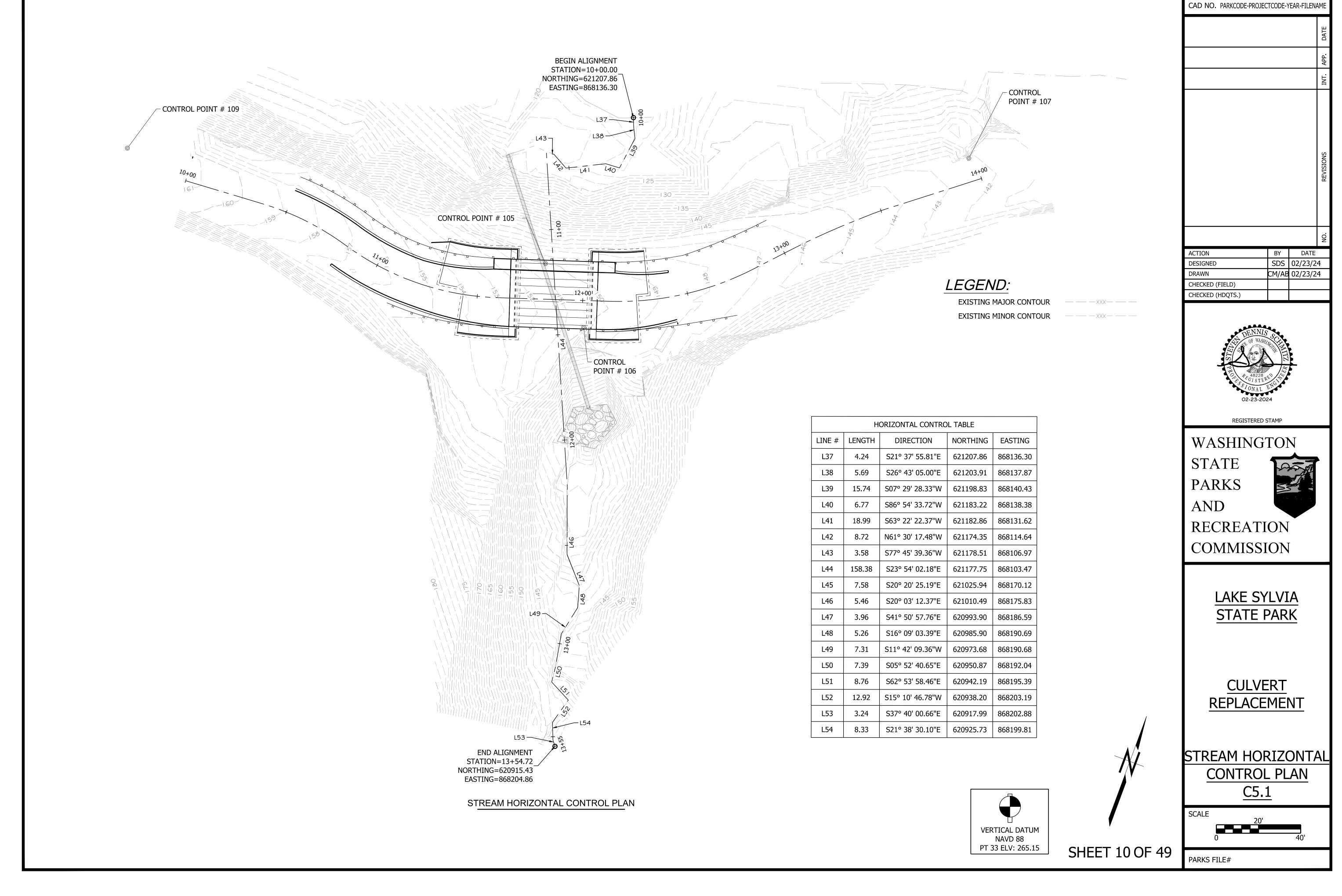
- 1. MATERIAL SHALL BE 4 INCH TO 8 INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1 INCH TO 3 INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15.)
- 2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50 FEET LONG. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
- 3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
- 4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.

STABILIZED CONSTRUCTION ENTRANCE

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867916.29	SET PKNAIL W/ FLASHER	<u>CULVER</u> <u>REPLACEN</u>	
		<u>ROAD HORI</u> <u>CONTROL</u> <u>C5.0</u>	. PLAN
		SCALE20'	
VERTICAL DATUM NAVD 88 PT 33 ELV: 265.15			40'
	$^{\perp}$ Sheet 9 of 49	PARKS FILE#	



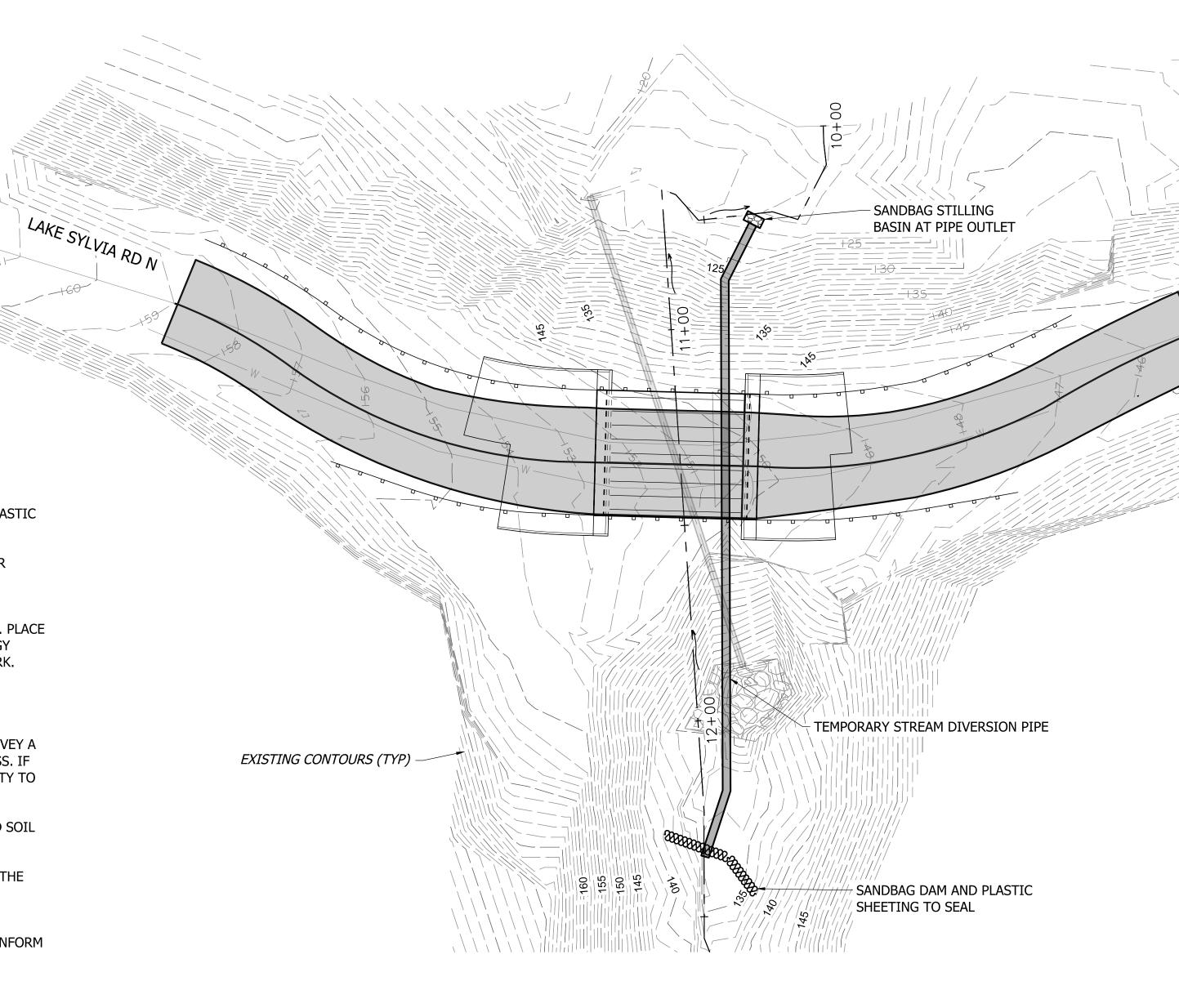
CONSTRUCTION SEQUENCE:

- 1. INSTALL STREAM DIVERSION PIPE AND DAM OR CUTOFF WALL.
- 2. REMOVE EXISTING CULVERTS AND ASSOCIATED EMBANKMENT.
- 3. CONSTRUCT STREAM AND INSTALL STRUCTURE PER STRUCTURAL SHEETS.
- 4. SLOWLY RETURN STREAM FLOW TO RESTORED CHANNEL, MINIMIZING SEDIMENTATION.
- 5. REMOVE STREAM DIVERSION PIPE.

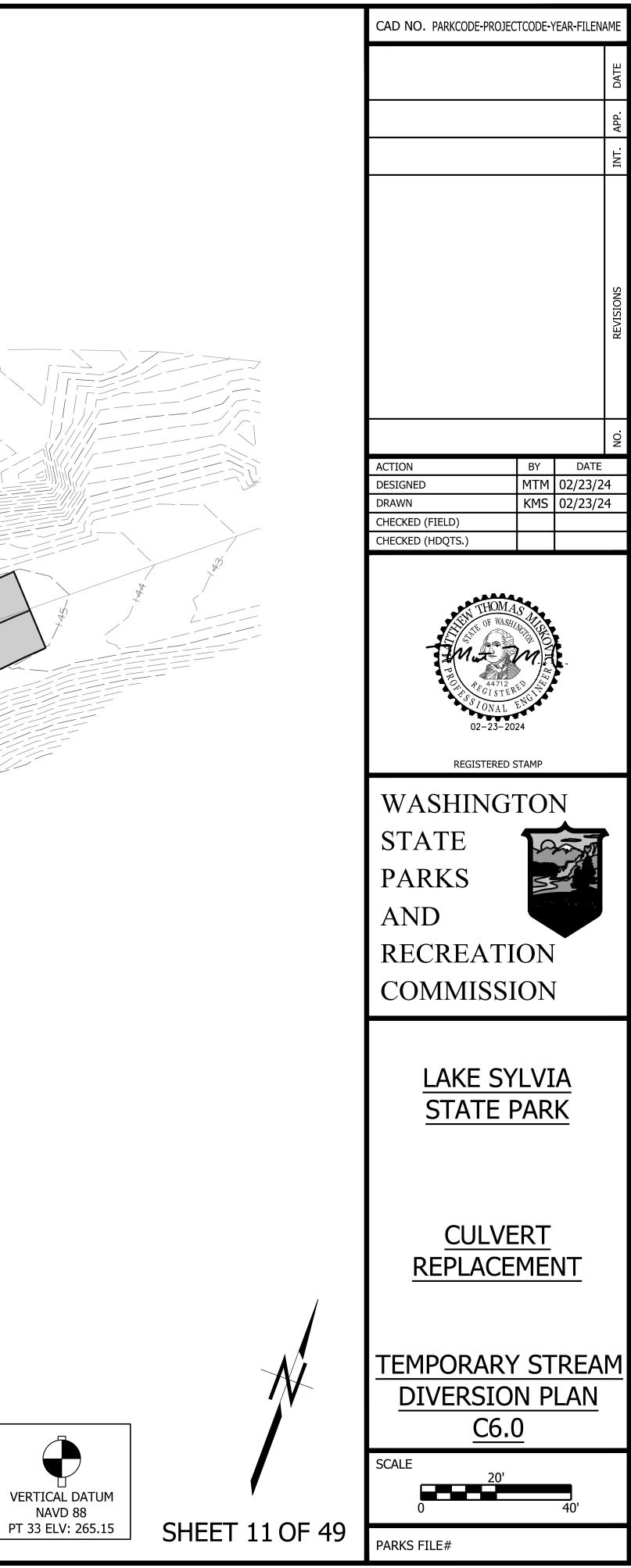


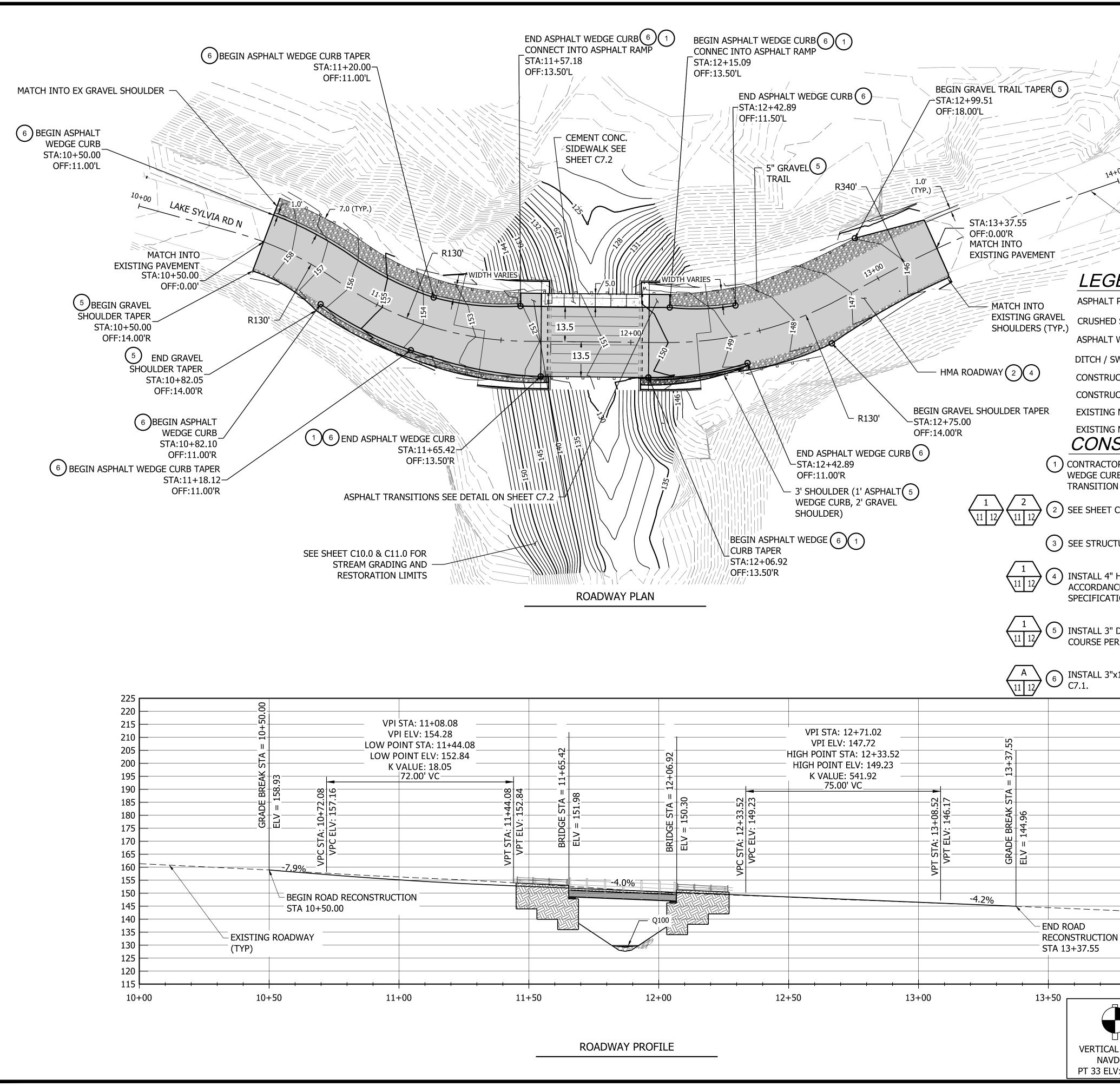
- 1. PLACE SAND BAGS FIRMLY AGAINST GROUND LINE AND ADJACENT SAND BAGS. USE PLASTIC SHEETING TO PROVIDE SEAL.
- 2. METHOD OF PLACEMENT AND REMOVAL OF DAMS, DIVERSION PIPE, AND ALL IN-WATER ITEMS SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL DEMONSTRATE EFFECTIVENESS OF THE DAM AND DIVERSION PIPE AND MAINTAIN AS NEEDED.
- 3. DIVERSION OUTFALL SHALL BE PLACED TO MINIMIZE THE ENERGY OF FALLING WATER. PLACE OUTFALL AS CLOSE TO GROUND ELEVATION AS FEASIBLE. PROVIDE HYDRAULIC ENERGY DISSIPATION SYSTEM. OUTFALL SHALL BE REMOVED AT COMPLETION OF STREAM WORK.
- 4. ALL SAND BAGS AND PLASTIC SHEETING SHALL BE REMOVED FROM THE SITE WHEN DIVERSION IS REMOVED.
- 5. GRAVITY DIVERSION SYSTEM, IF USED BY THE CONTRACTOR, SHALL BE SIZED TO CONVEY A MINIMUM OF 2.5 CFS WITH A HEADWATER TO DIAMETER (HW/D) RATIO OF 0.5 OR LESS. IF PUMP IS USED, THE CONTRACTOR SHALL USE PUMPING EQUIPMENT OF EQUAL CAPACITY TO THE MINIMUM FLOW RATE OF A GRAVITY PIPE.
- 6. IF STREAM DIVERSION PIPE IS BORED, ALL SLURRY, DRILLING FLUID, LUBRICANT, AND SOIL DISCHARGE SHALL BE COLLECTED AND NOT ALLOWED TO ENTER THE STREAM.
- 7. STREAM DIVERSION PUMP SCREEN INTAKES, IF USED, SHALL BE BACKWATERED WITH THE PLACEMENT OF THE DOWNSTREAM TEMPORARY ISOLATION DAM TO ALLOW FISH TO VOLITIONALLY AVOID THE INTAKE SCREEN AND PREVENT IMPINGEMENT.
- 8. CONTRACTOR'S TEMPORARY STREAM DIVERSION PLAN AND EFFECTIVENESS SHALL CONFORM TO PERMIT REQUIREMENTS.

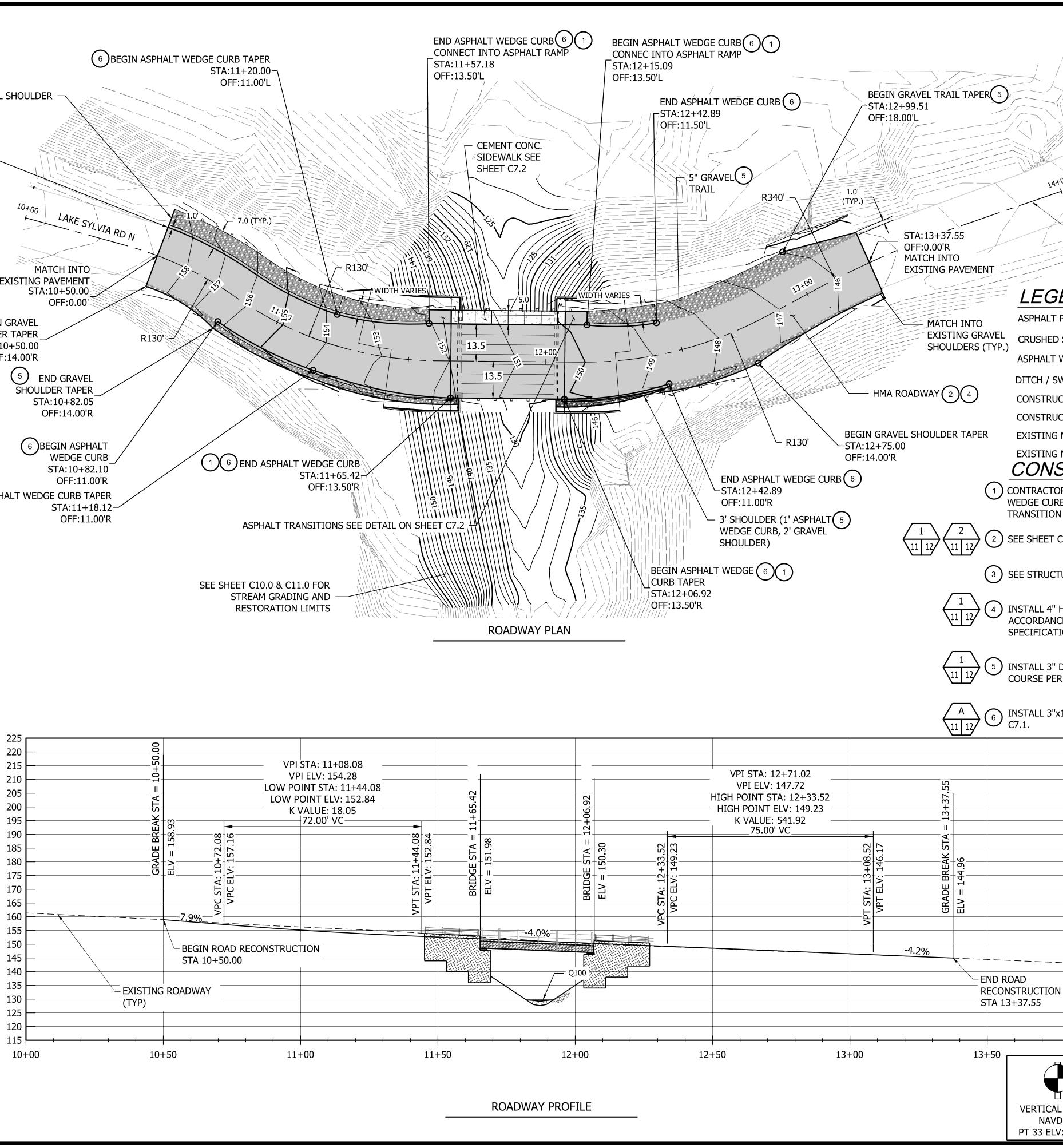
TSD PLANS ARE CONCEPTUAL DESIGN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE FINAL DESIGN.



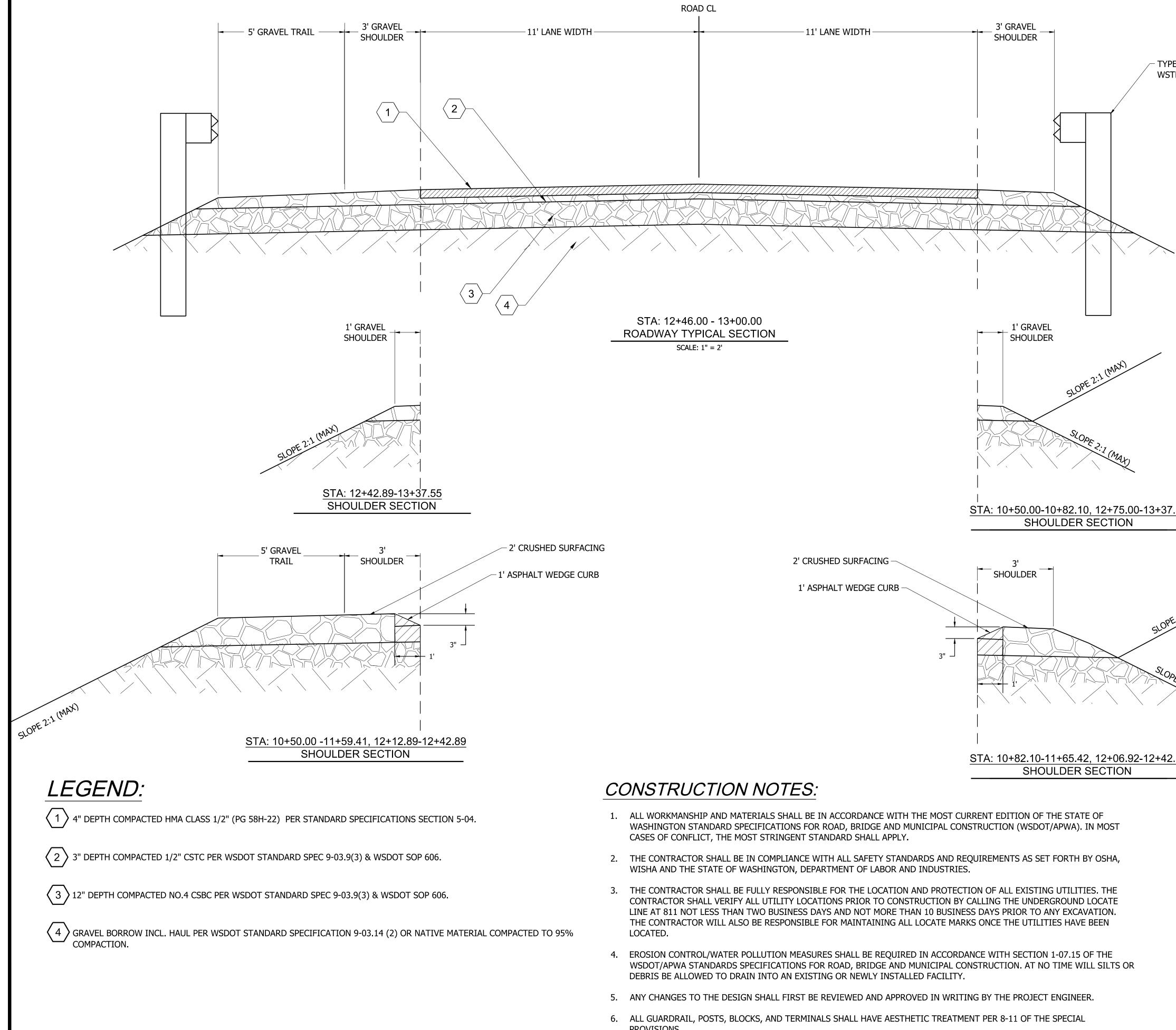
TEMPORARY STREAM DIVERSION PLAN





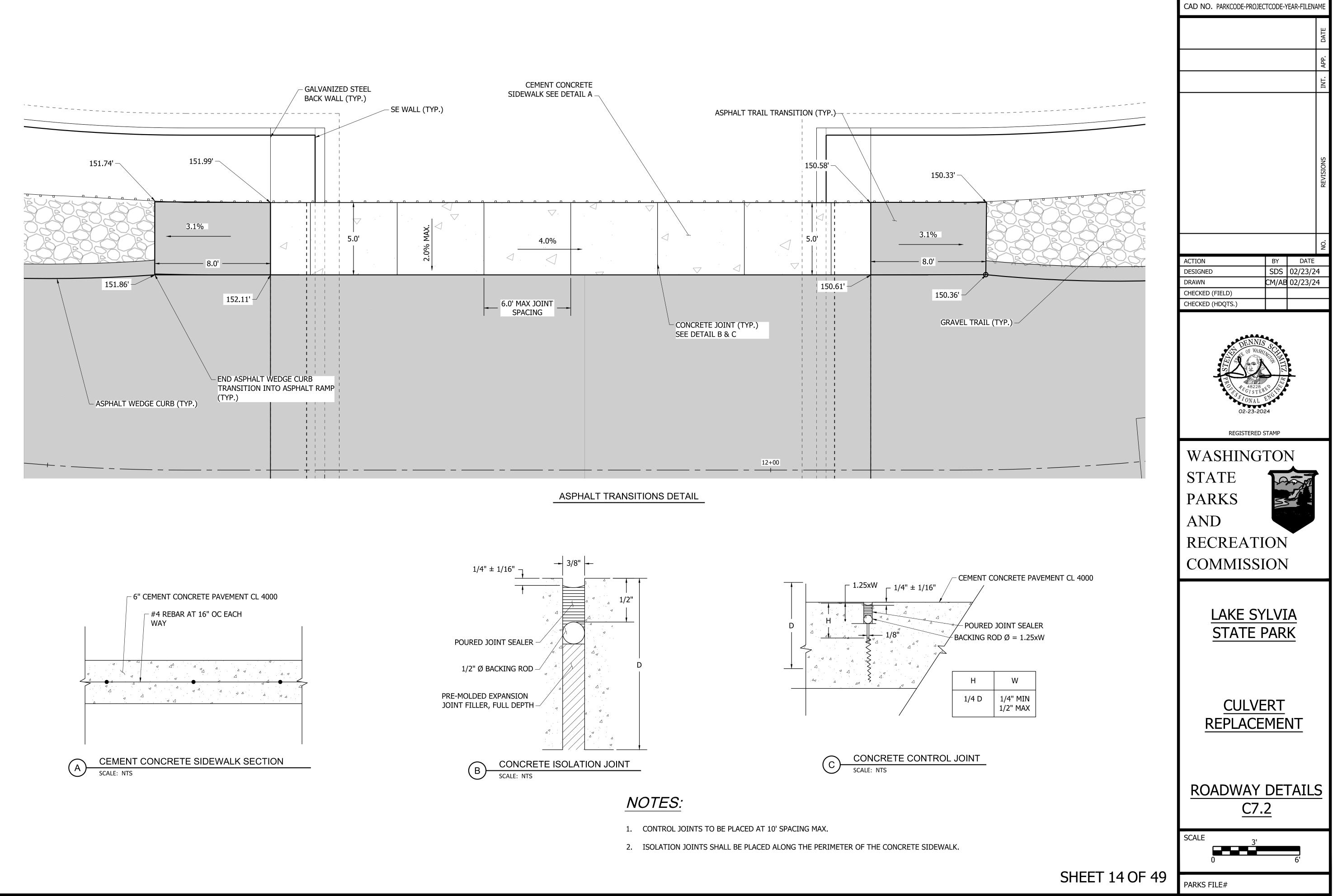


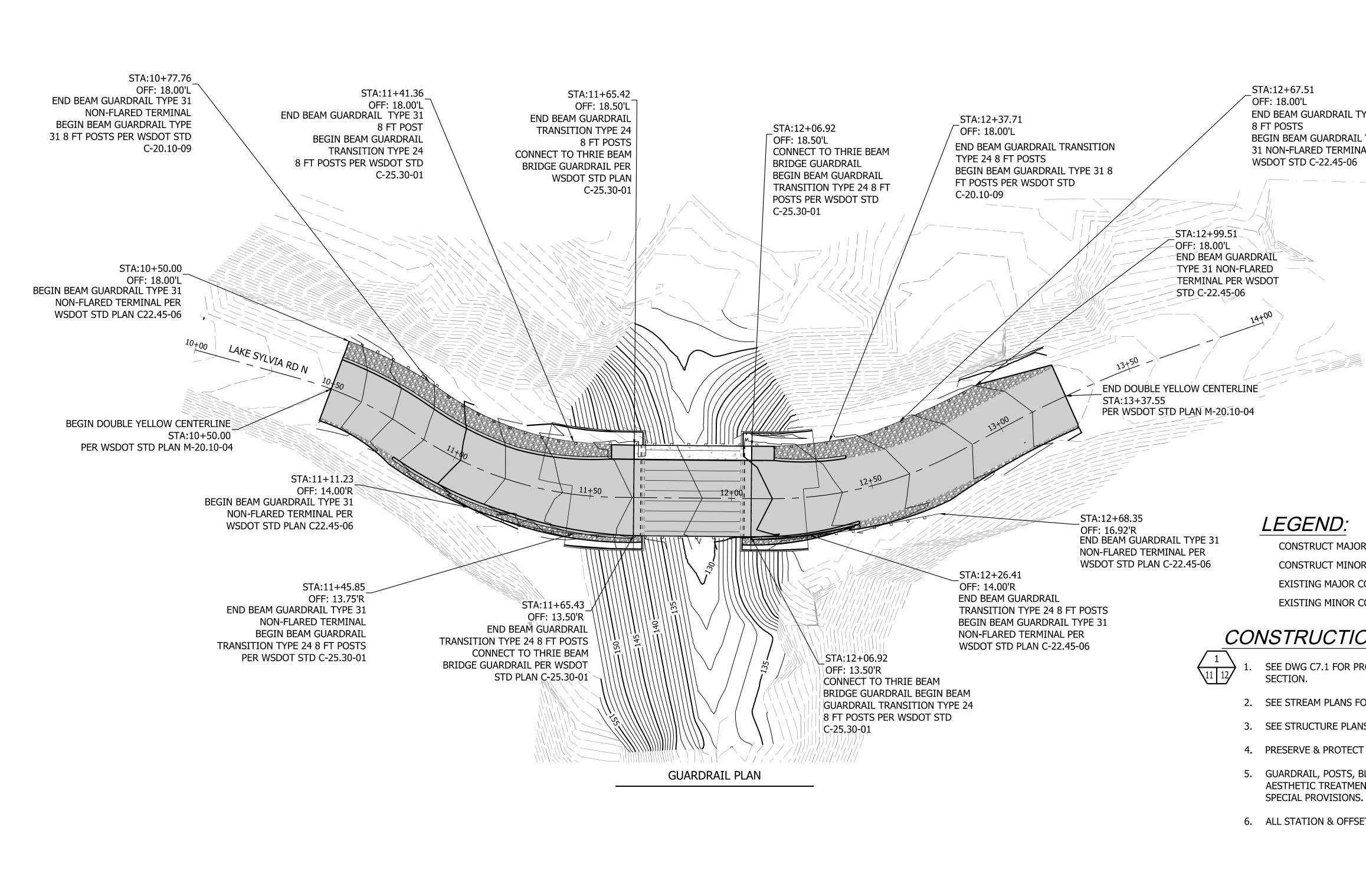
	CAD NO. PARKCODE-PROJEC	TCODE-YEAR-FILENAME
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EXISTING ROAD EDGE		REVISIONS
PROPOSED ROAD CL		REVI
SEND:		
PAVEMENT		
D SURFACING TOP COURSE	ACTION	BY DATE
WEDGE CURB	DESIGNED	SDS 02/23/24
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JCT MAJOR CONTOUR	CHECKED (HDQTS.)	
JCT MINOR CONTOUR		
G MAJOR CONTOUR	NNIG	44.
	THE OF WASH	No. CHANNEL
STRUCTION NOTES:		N III
OR TO FIELD FIT AND ADJUST ASPHALT RB TO PROVIDE A CONTINUOUS FLOWLINE	Provide Assessment	R. A.
N TO AND FROM STEEL PLATE OF BRIDGE.	SFIONAL	ENG
C7.1 FOR TYPICAL ROADWAY SECTIONS.	02-23-202	24
TURAL PLANS FOR BRIDGE DESIGN AND DETAILS.	REGISTERED STAMP	
TORAL PLANS FOR DRIDGE DESIGN AND DETAILS.	WASHINGTON	
HMA 1/2" CLASS (PG 58H-22) TO BE IN	STATE STATE	
ICE WITH WSDOT SOP-732 PER STANDARD FIONS SECTION 5-04.	PARKS	
DEPTH OF 1/2" CRUSHED SURFACING TOP R WSDOT STANDARD SPECIFICATION 9-03.9(3).	AND	
	RECREATI	ON
x12" HMA WEDGE CURB SEE DETAIL A ON SHEET	COMMISSI	ON
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220		
210 205	LAKE SY	ΊLVΤΑ
200	STATE F	
195 190		
185		
180 175		
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165 160		
— 155	<u>REPLACE</u>	MENT
150 145		
140		
N 135 130	ROADWAY	PLAN &
125	PROF	
	C7.	
14+00 14+25		<u> </u>
	SCALE 20'	
		40'
^{1D 88} SHEET 12 OF 49	PARKS FILE#	
V: 265.15		



- PROVISIONS.

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PE 2:1 (MAX)				
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- 4" HMA	REPLACE	ME	NT	
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	ROADWAY			<u> </u>
ASPHALT WEDGE CURB	<u>SECTI</u>			
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	SCALE 2'			
			4'	
SHEET 13 OF 49			-	
	PARKS FILE#			





I.

END BEAM GUARDRAIL TYPE 31 BEGIN BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER

CONSTRUCT MAJOR CONTOUR	XXX
CONSTRUCT MINOR CONTOUR	XXX
EXISTING MAJOR CONTOUR	XX
EXISTING MINOR CONTOUR	XX

CONSTRUCTION NOTES:

SEE DWG C7.1 FOR PROPOSED ROADWAY TYPICAL

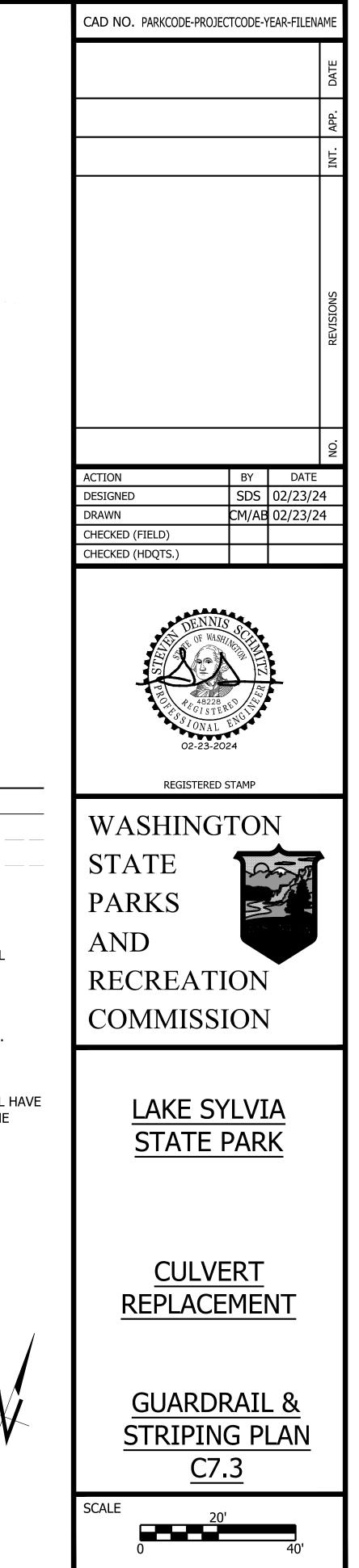
2. SEE STREAM PLANS FOR STREAM DETAILS.

3. SEE STRUCTURE PLANS FOR STRUCTURE DETAILS.

4. PRESERVE & PROTECT EXISTING UTILITIES.

5. GUARDRAIL, POSTS, BLOCKS, & TERMINALS SHALL HAVE AESTHETIC TREATMENT PER SECTION 8-11 OF THE

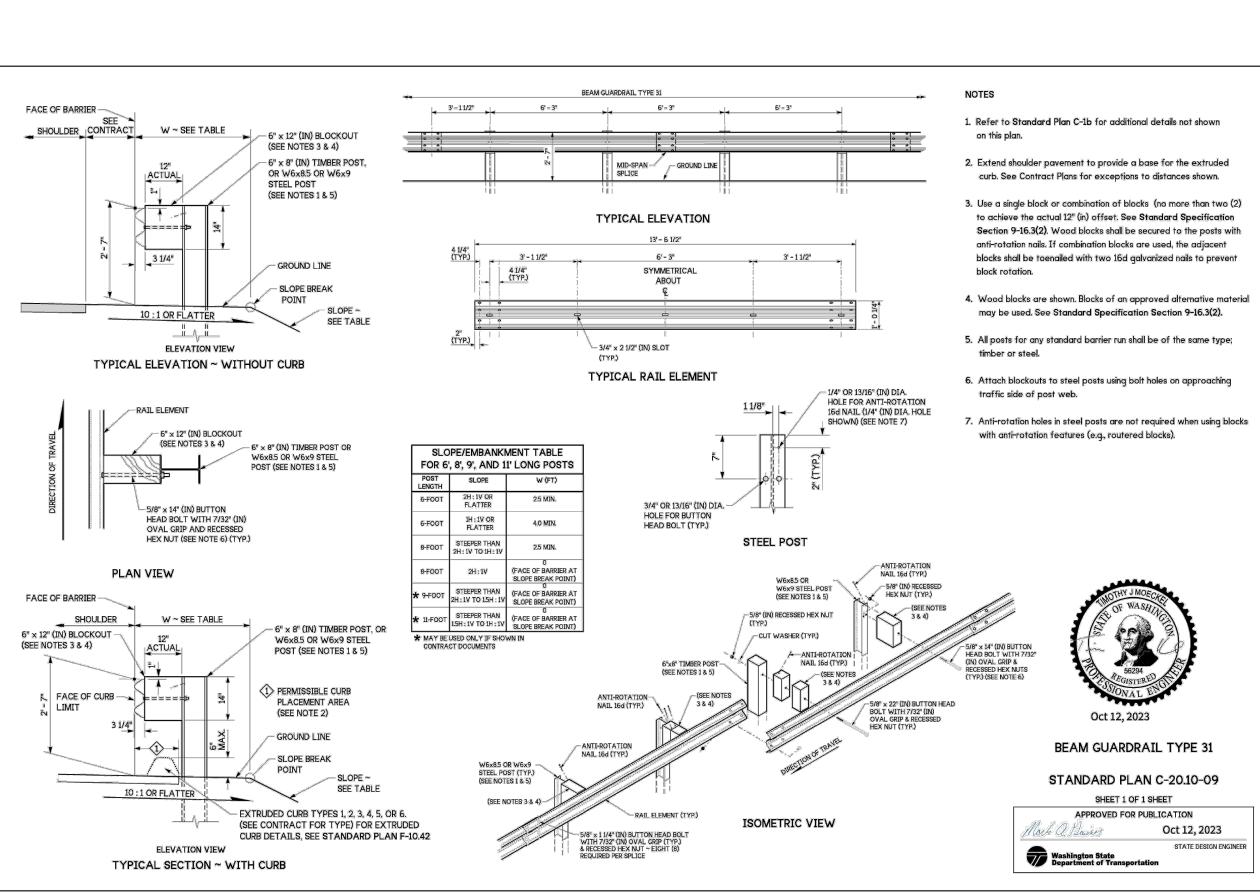
6. ALL STATION & OFFSETS ARE TO FACE OF RAIL.



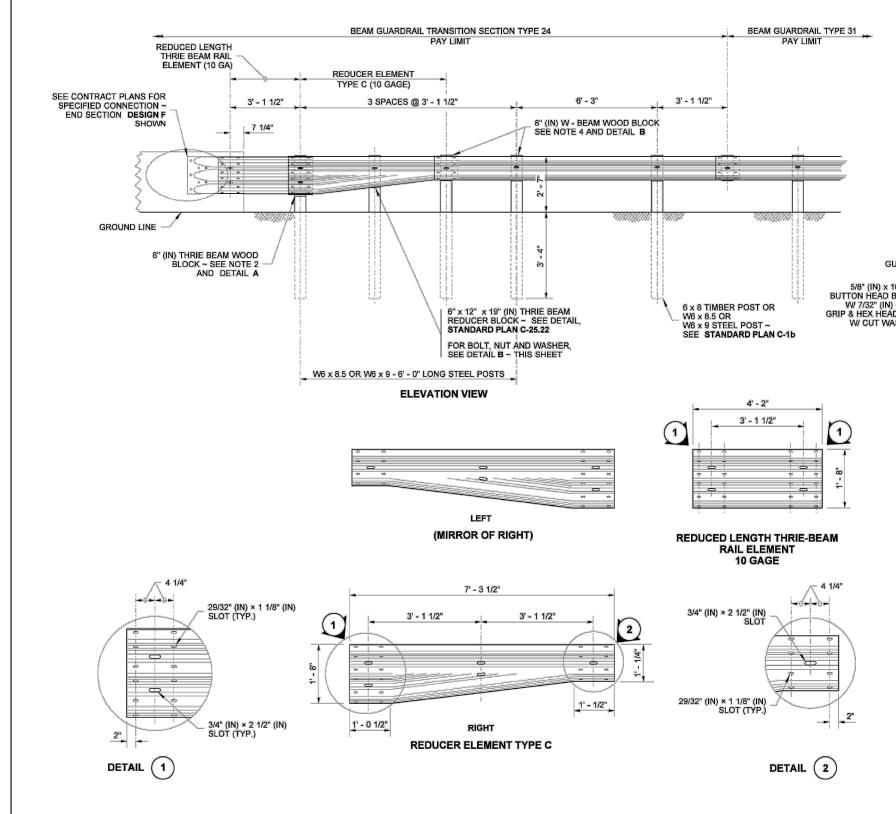
VERTICAL DATUM NAVD 88 PT 33 ELV: 265.15

SHEET 15 OF 49

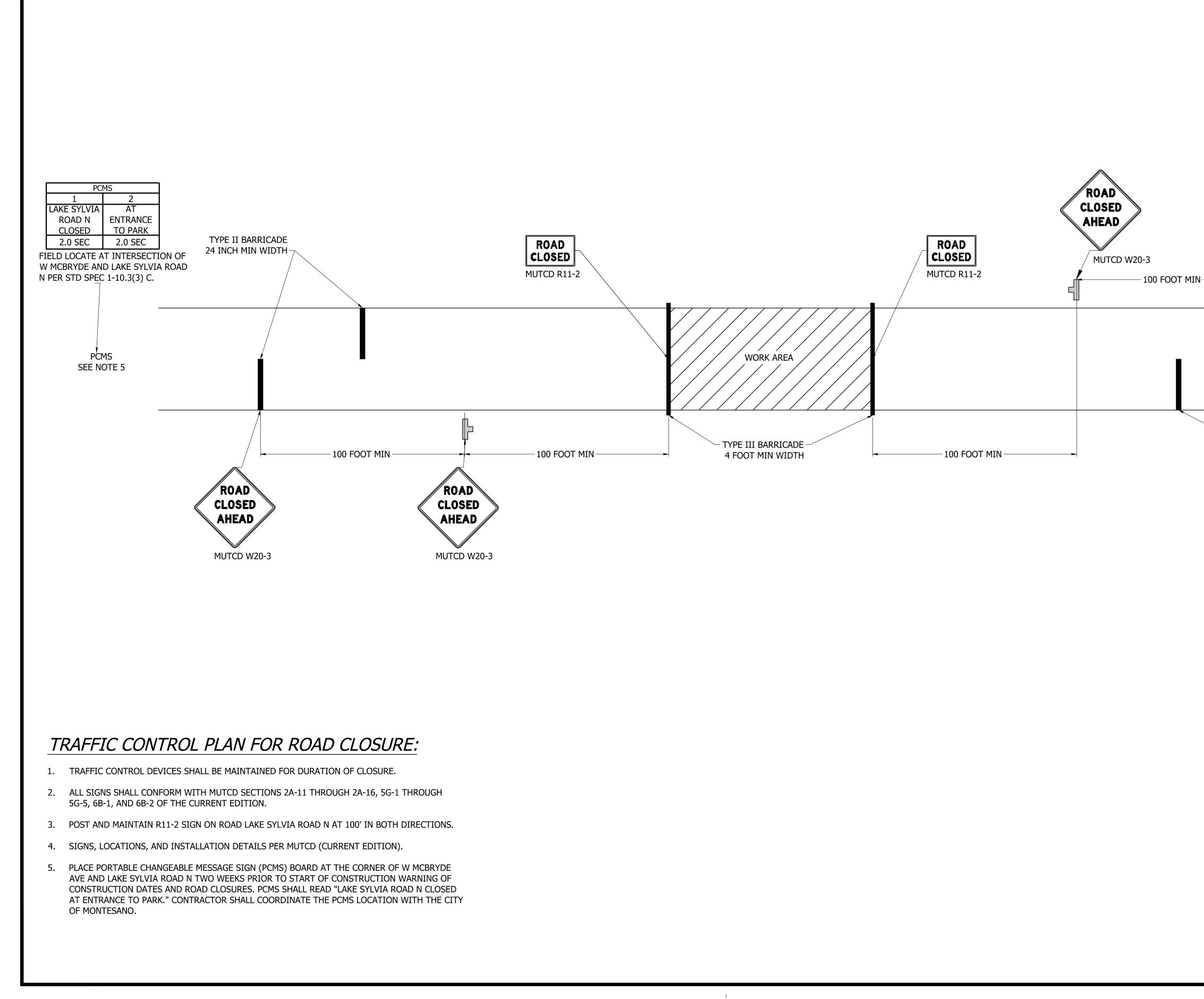
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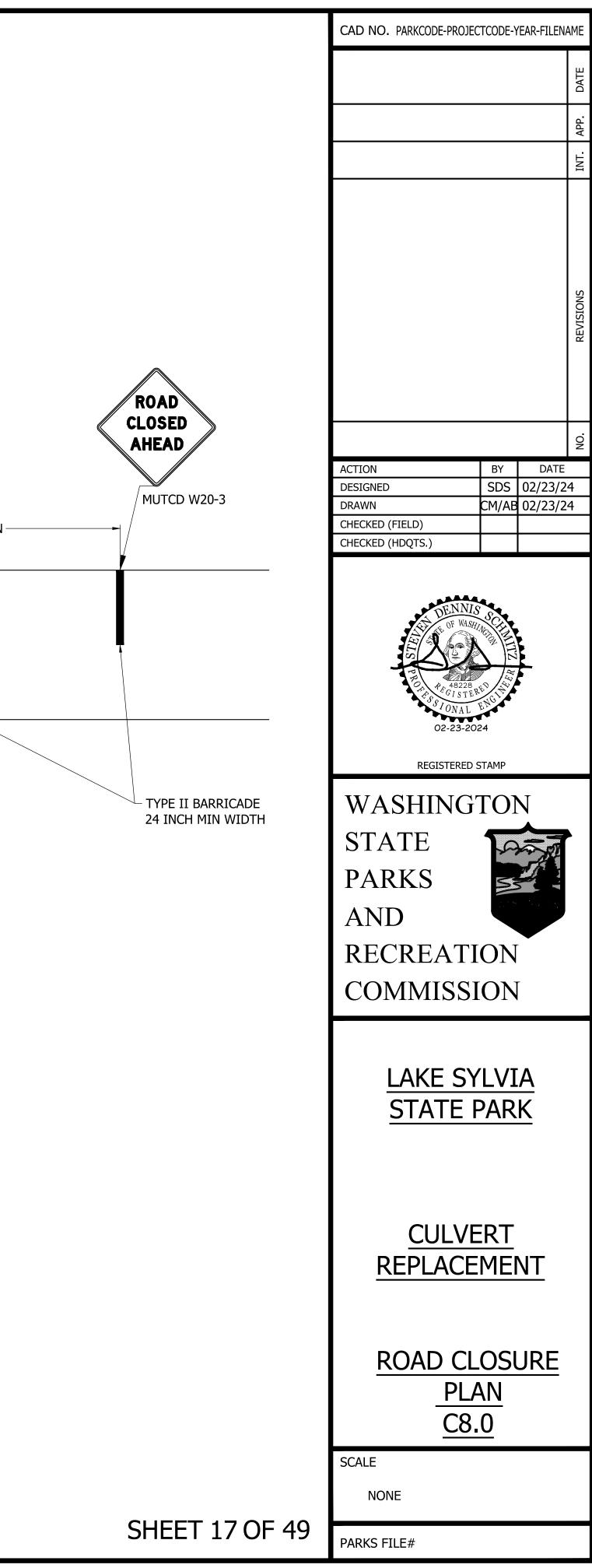


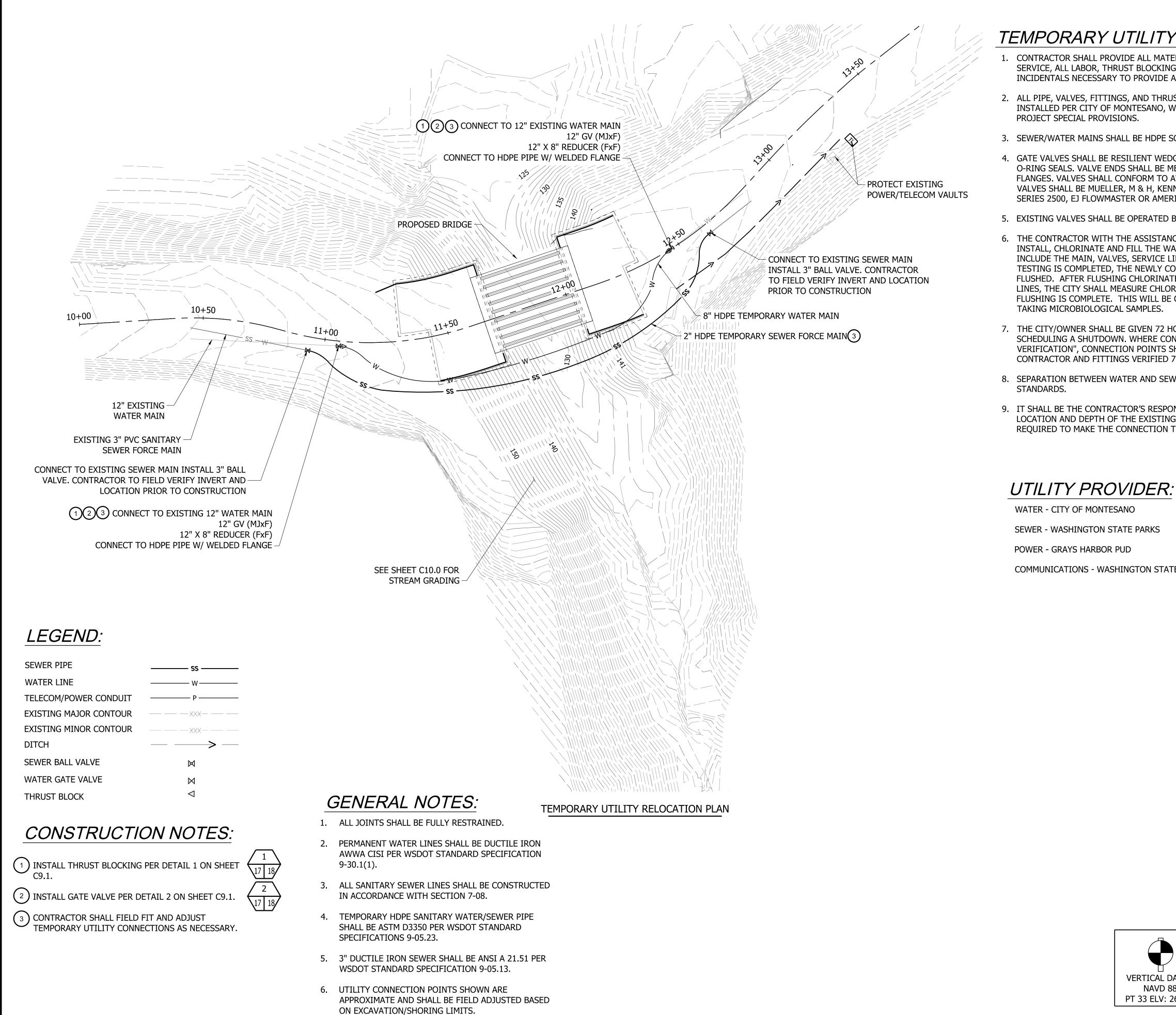
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	CAD NO. PARKCODE-PROJEC	CTCODE-YEAR-FILEN	AME
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 This guardrail transition is for connection to a vertical concrete shape, a single slope, or a safety-shape barrier. The toe of the single slope and the safety-shape barrier shall be tapered or the barrier blocked out so that the toe of the barrier does not project beyond the face of the approach guardrail. See Standard Plan C-1b for thrie beam wood block detail. See Standard Plan C-20.10 for typical components (nuts,washers and bolts) at splices. See Standard Plan C-1b for W-Beam wood block detail. 			INT.
 5. All rail sections shall be lapped in the direction of traffic. 6. See Standard Plan C-24.10 for details regarding connection to bridge rail or traffic barrier. 7. See Standard Plans A-50.10, or A-50.40 for beam guardrail transition grading details at bridge ends. FACE OF UARDRAIL THRIE BEAM FACE OF WOOD BLOCK GUARDRAIL S/8" (IN) x 10" (IN) BUTTON HEAD BOLTS W/ 7/32" (IN) OVAL GRIP & HEX HEAD NUT W/ CUT WASHER 			REVISIONS
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	<u>LAKE SY</u> <u>STATE F</u>	PARK	
	<u>CULVE</u> <u>REPLACE</u> GUARDRAIL	MENT	
	<u>GUARDRAIL</u> <u>C7.</u> SCALE		
	NONE		
SHEET 16 OF 49	PARKS FILE#		







TEMPORARY UTILITY NOTES:

CONTRACTOR SHALL PROVIDE ALL MATERIALS TO PROVIDE TEMPORARY SERVICE, ALL LABOR, THRUST BLOCKING, BACKFILL, AND ANY MATERIAL INCIDENTALS NECESSARY TO PROVIDE A WORKING SYSTEM.

2. ALL PIPE, VALVES, FITTINGS, AND THRUST BLOCKING ASSEMBLIES SHALL BE INSTALLED PER CITY OF MONTESANO, WSDOT SPECIFICATIONS, AND THE

3. SEWER/WATER MAINS SHALL BE HDPE SCHEDULE SDR 11.

4. GATE VALVES SHALL BE RESILIENT WEDGE, NRS (NON RISING STEM) WITH O-RING SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES SHALL CONFORM TO AWWA C-515 LATEST REVISION VALVES SHALL BE MUELLER, M & H, KENNEDY, CLOW R/W, WATEROUS SERIES 2500, EJ FLOWMASTER OR AMERICAN AVK.

5. EXISTING VALVES SHALL BE OPERATED BY CITY EMPLOYEES ONLY.

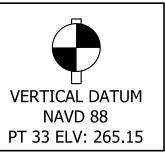
6. THE CONTRACTOR WITH THE ASSISTANCE OF THE CITY INSPECTOR SHALL INSTALL, CHLORINATE AND FILL THE WATER MAIN. TESTING SHALL INCLUDE THE MAIN, VALVES, SERVICE LINES AND APPURTENANCES. AFTER TESTING IS COMPLETED, THE NEWLY CONSTRUCTED SYSTEM SHALL BE FLUSHED. AFTER FLUSHING CHLORINATED WATER FROM DISINFECTED LINES, THE CITY SHALL MEASURE CHLORINE RESIDUAL TO VERIFY THAT FLUSHING IS COMPLETE. THIS WILL BE COMPLETED PRIOR TO THE CITY

7. THE CITY/OWNER SHALL BE GIVEN 72 HOURS NOTICE PRIOR TO SCHEDULING A SHUTDOWN. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS SHALL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 72 HOURS PRIOR.

8. SEPARATION BETWEEN WATER AND SEWER SHALL BE MAINTAINED PER DOE

9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF THE EXISTING MAIN AND PROVIDE THE FITTINGS REQUIRED TO MAKE THE CONNECTION TO THE EXISTING MAIN.

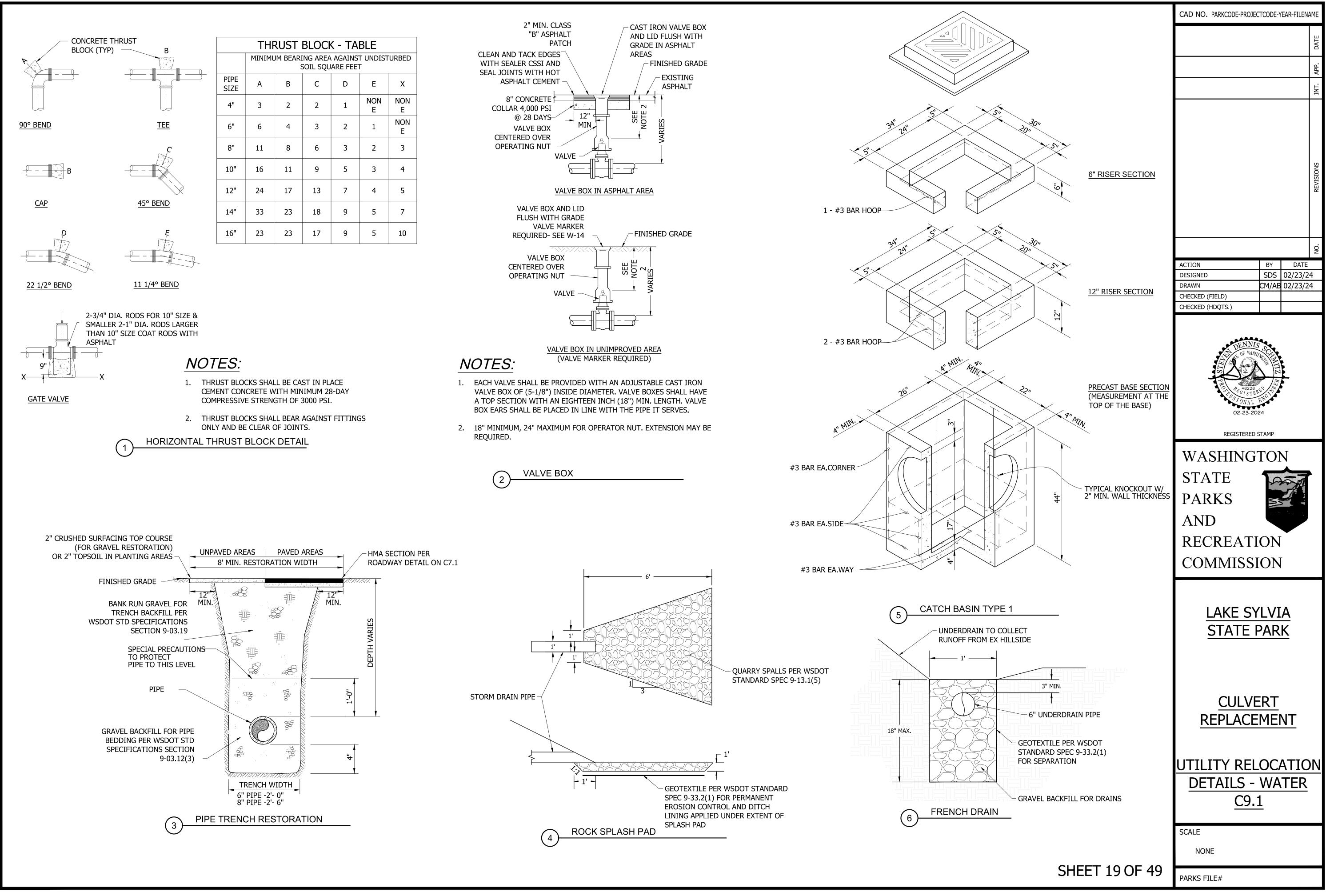
COMMUNICATIONS - WASHINGTON STATE PARKS

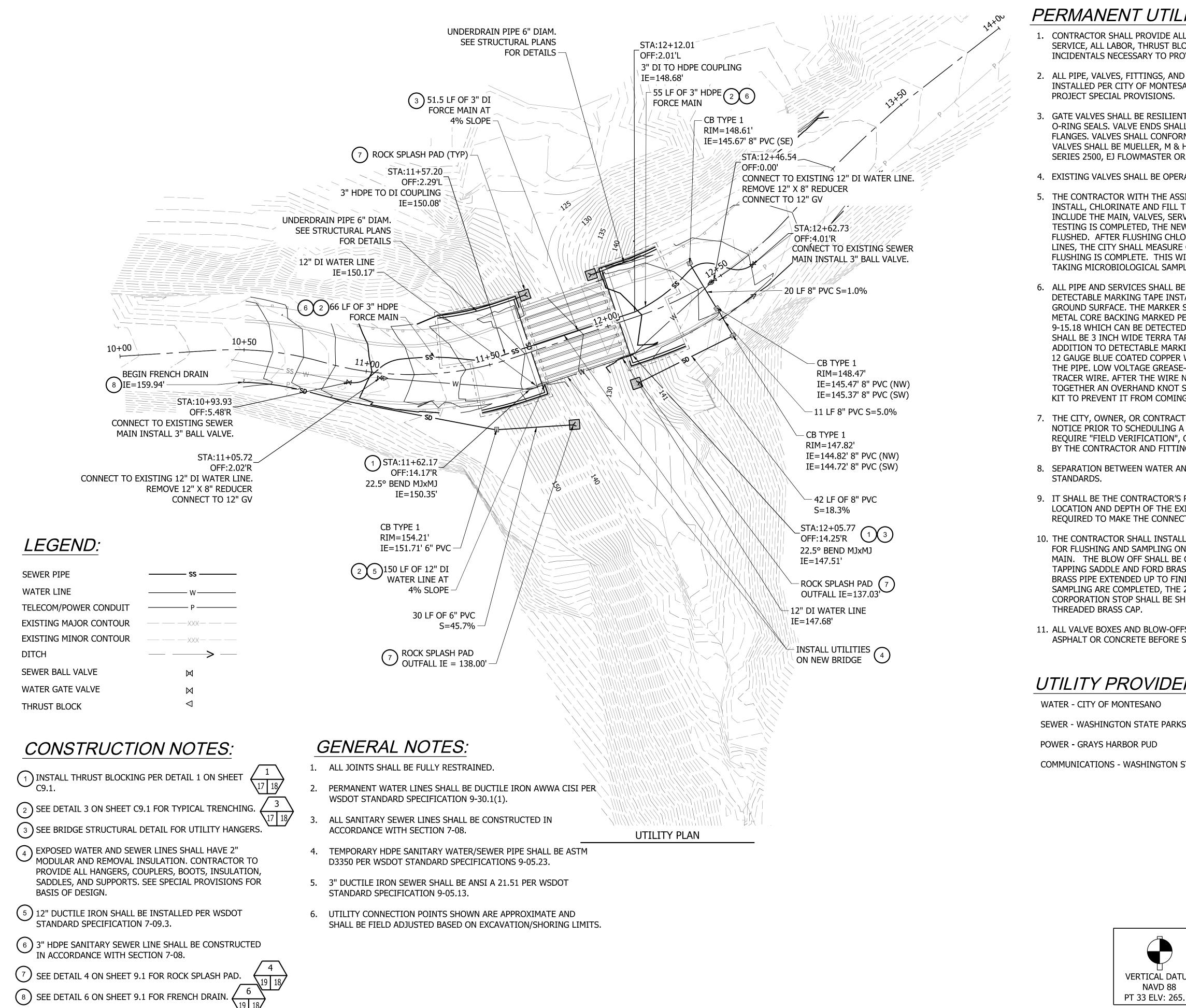


SHEET 18 OF 49

PARKS FILE#

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PERMANENT UTILITY NOTES:

1. CONTRACTOR SHALL PROVIDE ALL MATERIALS TO PROVIDE TEMPORARY SERVICE, ALL LABOR, THRUST BLOCKING, BACKFILL, AND ANY MATERIAL INCIDENTALS NECESSARY TO PROVIDE A WORKING SYSTEM

2. ALL PIPE, VALVES, FITTINGS, AND THRUST BLOCKING ASSEMBLIES SHALL BE INSTALLED PER CITY OF MONTESANO, WSDOT SPECIFICATIONS, AND THE PROJECT SPECIAL PROVISIONS.

3. GATE VALVES SHALL BE RESILIENT WEDGE, NRS (NON RISING STEM) WITH O-RING SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES SHALL CONFORM TO AWWA C-515 LATEST REVISION. VALVES SHALL BE MUELLER, M & H, KENNEDY, CLOW R/W, WATEROUS SERIES 2500, EJ FLOWMASTER OR AMERICAN AVK.

4. EXISTING VALVES SHALL BE OPERATED BY CITY EMPLOYEES ONLY.

5. THE CONTRACTOR WITH THE ASSISTANCE OF THE CITY INSPECTOR SHALL INSTALL, CHLORINATE AND FILL THE WATER MAIN. TESTING SHALL INCLUDE THE MAIN, VALVES, SERVICE LINES AND APPURTENANCES. AFTER TESTING IS COMPLETED, THE NEWLY CONSTRUCTED SYSTEM SHALL BE FLUSHED. AFTER FLUSHING CHLORINATED WATER FROM DISINFECTED LINES, THE CITY SHALL MEASURE CHLORINE RESIDUAL TO VERIFY THAT FLUSHING IS COMPLETE. THIS WILL BE COMPLETED PRIOR TO THE CITY TAKING MICROBIOLOGICAL SAMPLES.

6. ALL PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS DETECTABLE MARKING TAPE INSTALLED 12" TO 18" UNDER THE FINAL GROUND SURFACE. THE MARKER SHALL BE PLASTIC NON-BIODEGRADABLE METAL CORE BACKING MARKED PER WSDOT STANDARD SPECIFICATIONS 9-15.18 WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE SHALL BE 3 INCH WIDE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO DETECTABLE MARKING TAPE, INSTALL DIRECT BURY, U.S.E. 12 GAUGE BLUE COATED COPPER WIRE, WRAPPED AROUND OR TAPED TO THE PIPE. LOW VOLTAGE GREASE-TYPE SPLICE KITS SHALL BE USED ON TRACER WIRE. AFTER THE WIRE NUT IS USED TO CONNECT THE WIRE TOGETHER AN OVERHAND KNOT SHALL BE TIED JUST OUTSIDE THE GREASE KIT TO PREVENT IT FROM COMING APART.

7. THE CITY, OWNER, OR CONTRACTING AGENCY WILL BE GIVEN 72 HOURS NOTICE PRIOR TO SCHEDULING A SHUTDOWN. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS SHALL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 72 HOURS.

8. SEPARATION BETWEEN WATER AND SEWER SHALL BE MAINTAINED PER DOE

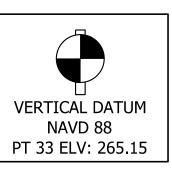
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF THE EXISTING MAIN AND PROVIDE THE FITTINGS REQUIRED TO MAKE THE CONNECTION TO THE EXISTING MAIN.

10. THE CONTRACTOR SHALL INSTALL A TEMPORARY 2 INCH BRASS BLOW OFF FOR FLUSHING AND SAMPLING ON THE EXISTING AND/OR NEW WATER MAIN. THE BLOW OFF SHALL BE CONSTRUCTED WITH A STANDARD 2 INCH TAPPING SADDLE AND FORD BRASS CORPORATION STOP WITH 2 INCH BRASS PIPE EXTENDED UP TO FINISHED GRADE. WHEN FLUSHING AND SAMPLING ARE COMPLETED, THE 2 INCH PIPE SHALL BE REMOVED. THE CORPORATION STOP SHALL BE SHUT OFF AND CAPPED TIGHT WITH A

11. ALL VALVE BOXES AND BLOW-OFFS SHALL BE CLEAN AND CLEAR OF ASPHALT OR CONCRETE BEFORE SCHEDULING A WALK THROUGH.

UTILITY PROVIDER:

COMMUNICATIONS - WASHINGTON STATE PARKS



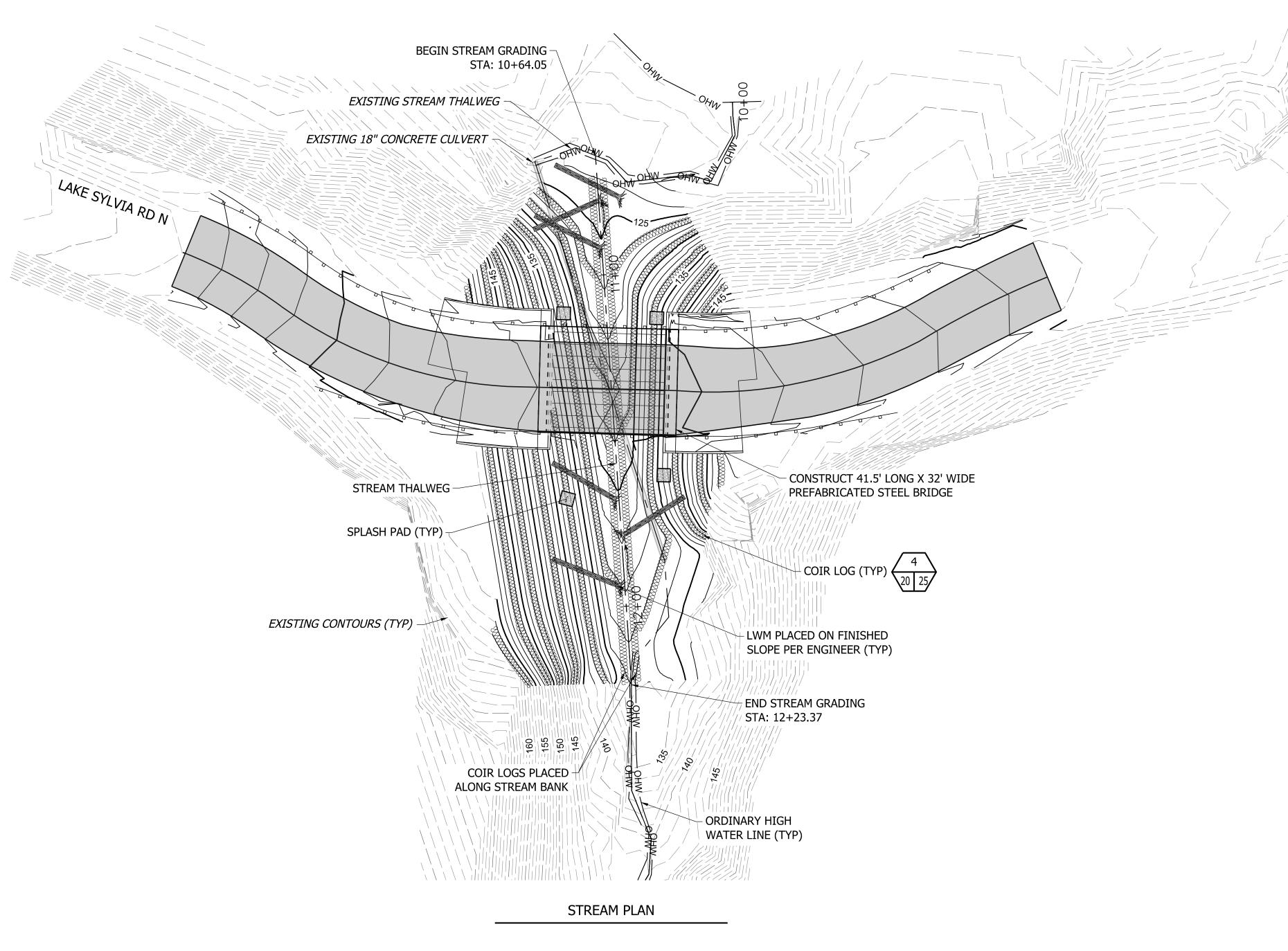
DATE ΒY ACTION SDS 02/23/24 DESIGNED CM/AB 02/23/24 DRAWN CHECKED (FIELD) CHECKED (HDQTS.) 02-23-2024 REGISTERED STAMP WASHINGTON STATE PARKS AND RECREATION COMMISSION LAKE SYLVIA **STATE PARK** CULVERT REPLACEMENT UTILITY PLAN C9.2

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

SCALE

SHEET 20 OF 49

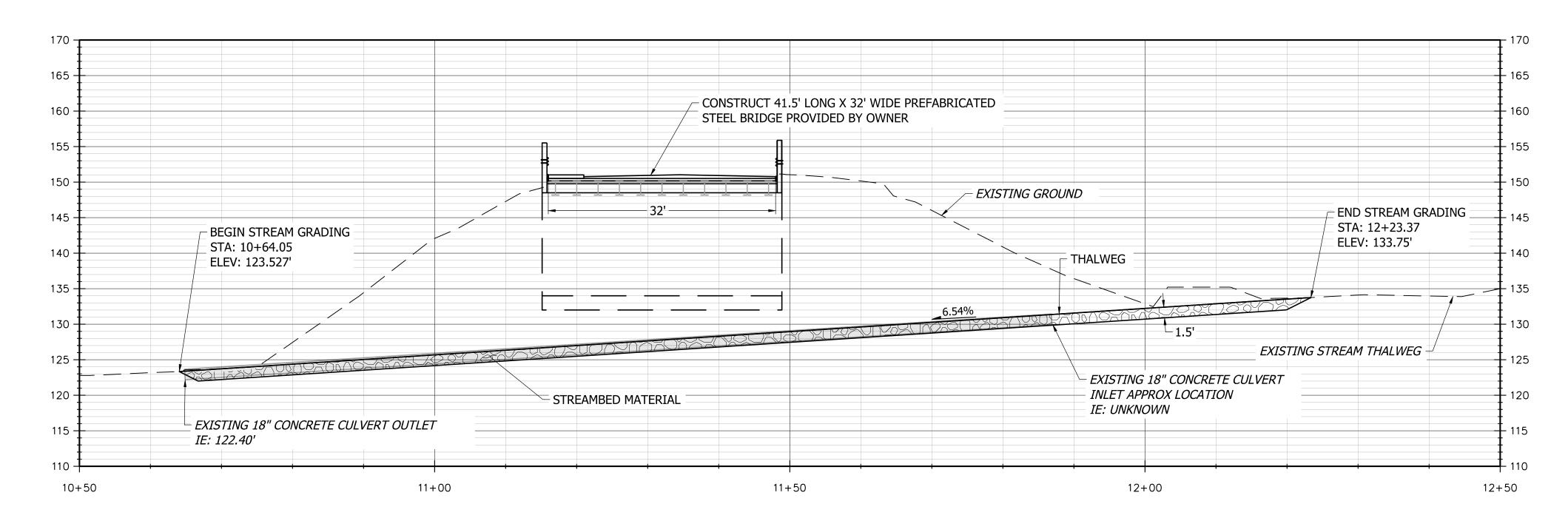
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NOTES:

- 1. SEE ROADWAY PLANS FOR ROADWAY DETAILS.
- 2. SEE STRUCTURE PLANS FOR STRUCTURE DETAILS.

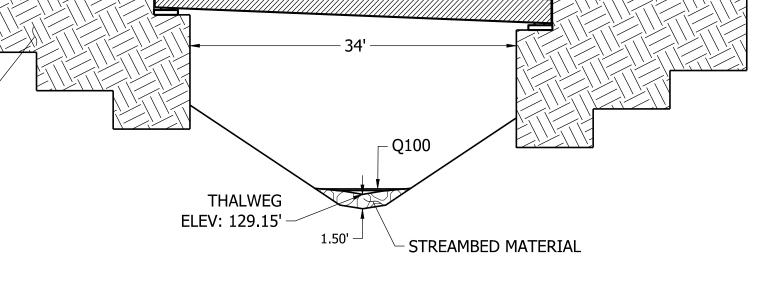
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STRUCTURAL EARTH WALL (TYP) -

NOTES:

- 1. BANKFULL WIDTH = 2.2 FEET.
- 2. 2080 PROJECTED BANKFULL WIDTH = 2.38 FEET.
- 3. PREVAILING UPSTREAM GRADIENT = 11.75%. PROPOSED STREAM GRADIENT = 6.54%.
- 4. SEE STRUCTURE PLANS FOR STRUCTURE DETAILS.
- 5. SEE ROADWAY PLANS FOR ROAD DETAILS.
- 6. RAILING NOT SHOWN FOR CLARITY.

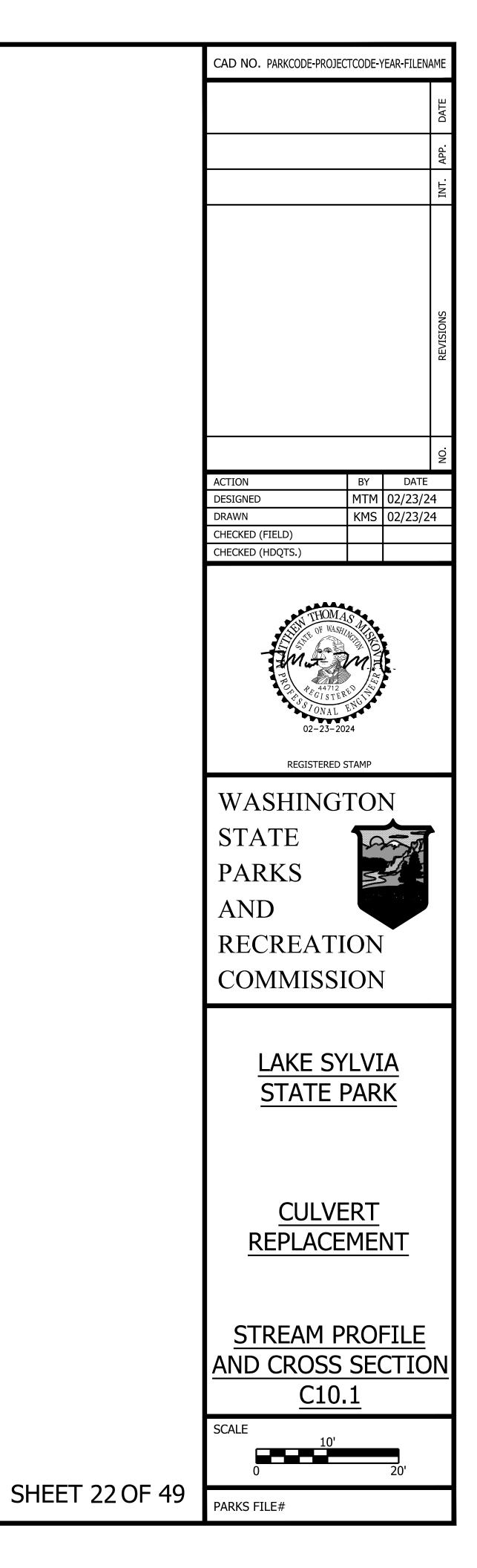


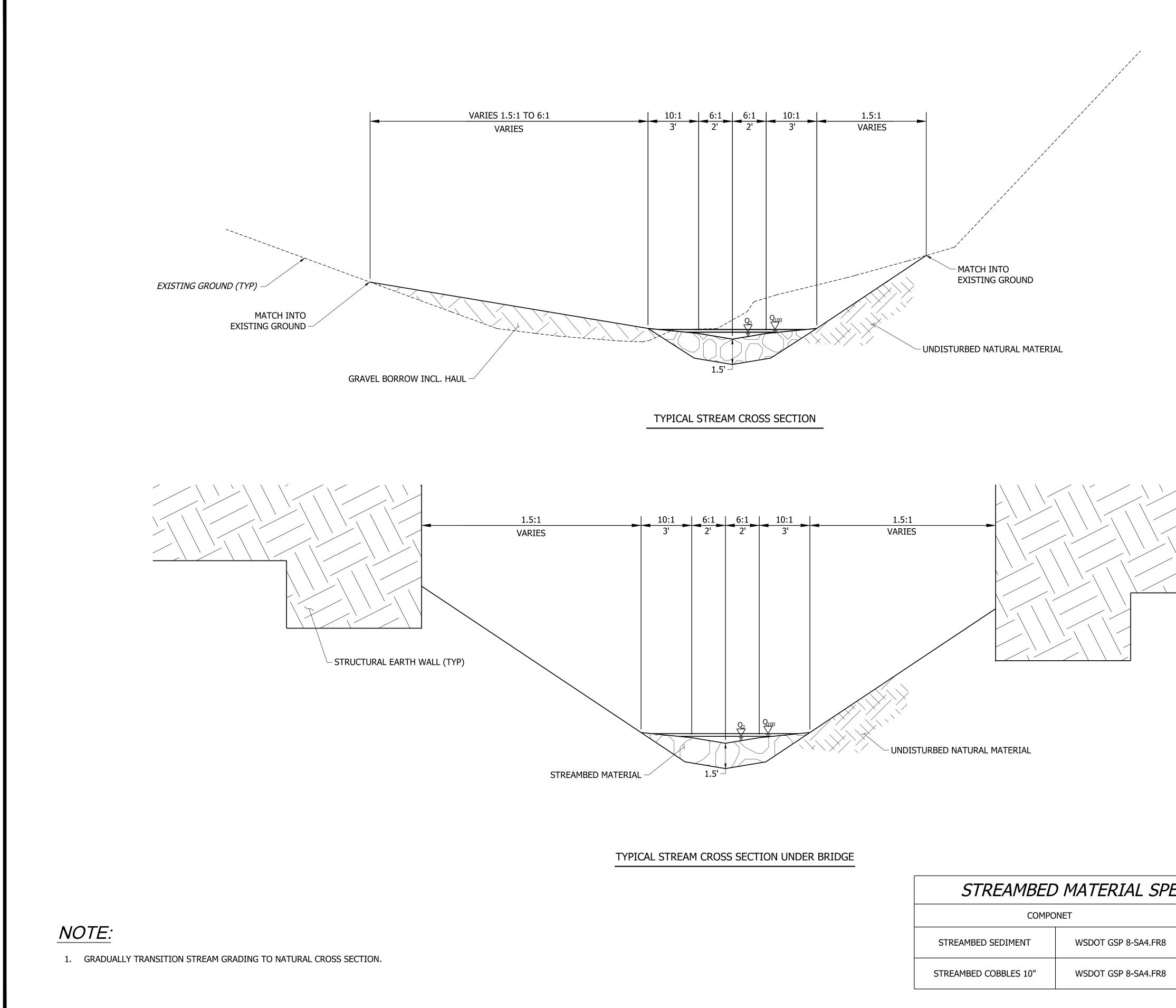
STREAM CROSS SECTION AT SOUTH WALL FACE

- CONSTRUCT 41.5' LONG X 32' PREFABRICATED STEEL BRIDGE PROVIDED BY OWNER

STREAM PROFILE ALONG THALWEG

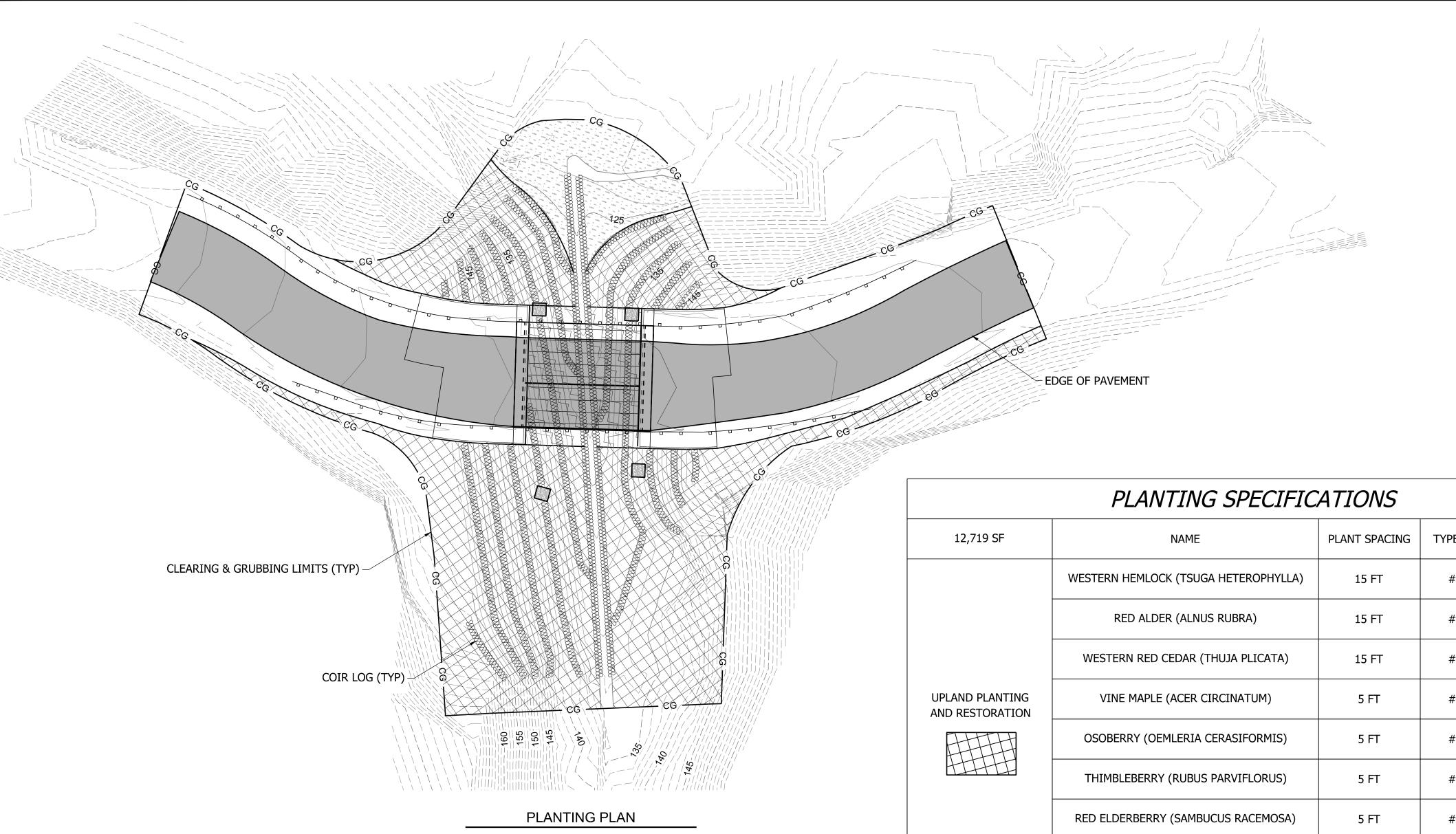
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COMPONET			
STREAMBED SEDIMENT	WSDOT GSP 8-SA4.FR8		
STREAMBED COBBLES 10"	WSDOT GSP 8-SA4.FR8		

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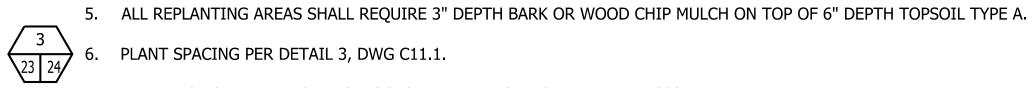


PLANT ESTABLISHMENT PLAN - 1 YEAR DURATION

THE PLANT ESTABLISHMENT PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8-02. THE PLAN SHALL SHOW THE PROPOSED SCHEDULING OF ACTIVITIES, MATERIALS, EQUIPMENT TO BE UTILIZED FOR THE FIRST-YEAR PLANT ESTABLISHMENT, AND AN EMERGENCY CONTACT PERSON. THE PLAN SHALL INCLUDE THE MANAGEMENT OF THE IRRIGATION SYSTEM, WHEN APPLICABLE. SHOULD THE PLAN BECOME UNWORKABLE AT ANY TIME DURING THE FIRST-YEAR PLANT ESTABLISHMENT, THE CONTRACTOR SHALL SUBMIT A REVISED PLAN PRIOR TO PROCEEDING WITH FURTHER WORK.

NOTES:

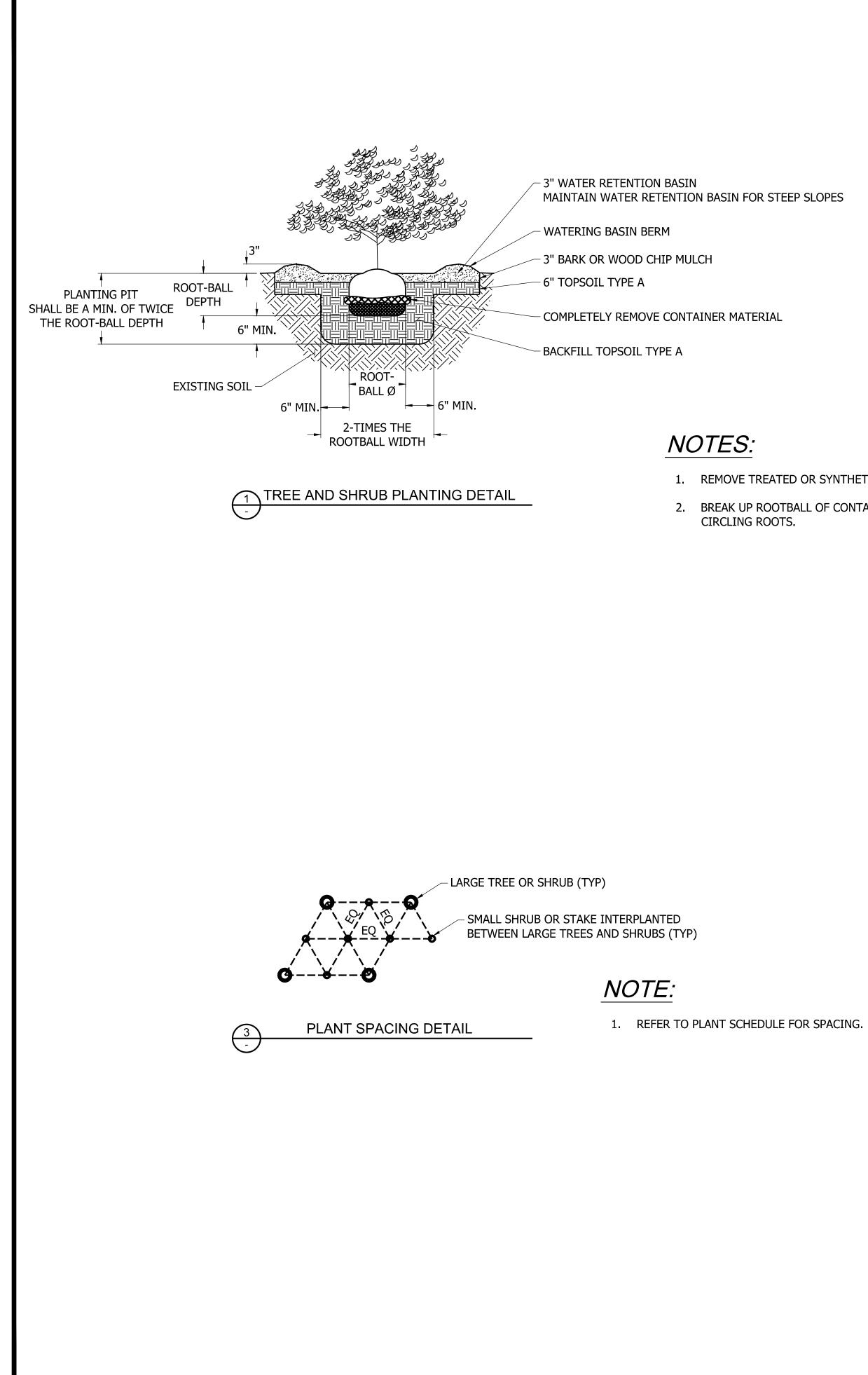
- 1. THE TOTAL PROJECT AREA IS APPROXIMATELY 23,300 SQUARE FEET.
- 2. APPROXIMATELY 16 TREES WILL BE REMOVED.
- 3. THE TOTAL REPLANTING AREA IS 12,719 SQUARE FEET.
- 4. PROVIDE A 5 FOOT SETBACK FROM NEW AND EXISTING SITE FEATURES TO REMAIN (WALLS, GUARDRAIL/BARRIER, EDGE OF ROADWAY, SIGNS, OTHER EXISTING VEGETATION ETC.).



- 7. PLANTING TO TAKE PLACE FROM OCTOBER 15TH TO DECEMBER 15TH, 2024.
- 8. ANY PLANT SUBSTITUTIONS SHALL BE APPROVED BY STATE PARKS PRIOR TO INSTALLATION.
- 9. ALL PLANTS SHALL CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1)

	12,719 SF	NAME	PLANT SPACING	TYPE OF PLANT	
		WESTERN HEMLOCK (TSUGA HETEROPHYLLA)	15 FT	#2 CONT.	
		RED ALDER (ALNUS RUBRA)	15 FT	#2 CONT.	
		WESTERN RED CEDAR (THUJA PLICATA)	15 FT	#2 CONT.	
	UPLAND PLANTING AND RESTORATION	VINE MAPLE (ACER CIRCINATUM)	5 FT	#1 CONT.	
		OSOBERRY (OEMLERIA CERASIFORMIS)	5 FT	#1 CONT.	
		THIMBLEBERRY (RUBUS PARVIFLORUS)	5 FT	#1 CONT.	
		RED ELDERBERRY (SAMBUCUS RACEMOSA)	5 FT	#1 CONT.	
		WESTERN SWORDFERN (POLYSTICHUM MUNITUM)	5 FT	#2 CONT.	
		SALAL (GULTHERIA SHALLON)	5 FT	#1 CONT.	
		DEVILS CLUB (OPLOPANAX HORRIDUS)	5 FT	#1 CONT.	
	10,115 SF	SALMONBERRY (RUBUS SPECTABILIS)	5 FT	#2 CONT.	
	RIPARIAN PLANTING	SLOUGH SEDGE (CARTEX OBNUPTA)	9 IN	PLUG	
		SALMONBERRY (RUBUS SPECTABILIS)	5 FT	#2 CONT.	
	AND RESTORATION	VINE MAPLE (ACER CIRCINATUM)	5 FT	#1 CONT.	
		PACIFIC NINEBARK (PHYSOCARPUS CAPITATUS)	5 FT	#1 CONT.	
		CASCARA (FRANGULA PURSHIANA)	5 FT	#1 CONT.	
	1,344 SF	THIMBLEBERRY (RUBUS PARVIFLORUS)	5 FT	#1 CONT.	
	UNDER BRIDGE PLANTING AND RESTORATION	WESTERN SWORDFERN (POLYSTICHUM MUNITUM)	5 FT	#2 CONT.	

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32		<u>CULVERT</u>
7		<u>REPLACEMENT</u>
7		
7		PLANTING PLAN
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1	SHEET 24 OF 49	PARKS FILE#



NOTES:

1. REMOVE TREATED OR SYNTHETIC BURLAP COMPLETELY.

2. BREAK UP ROOTBALL OF CONTAINER PLANTS AND PRUNE CIRCLING ROOTS.

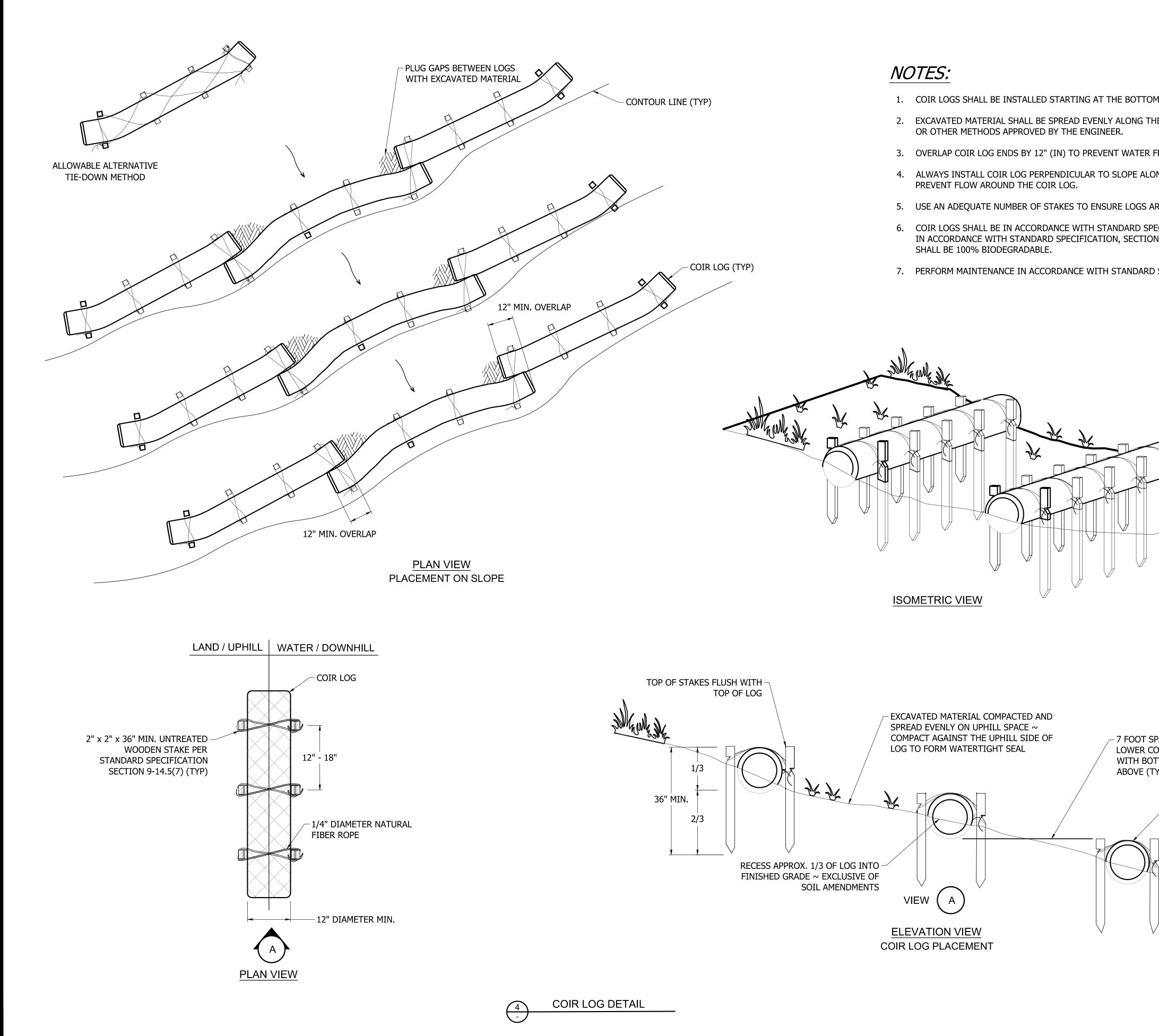
APPROX 1/5 STAKE LENGTH APPROX 4/5 STAKE LENGTH \\\\///\\' 2 LIVE STAKE INSTALLATION DETAIL

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<u>LAKE SY</u> <u>STATE F</u>			
<u>CULVE</u> REPLACE		<u>NT</u>	
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SCALE			

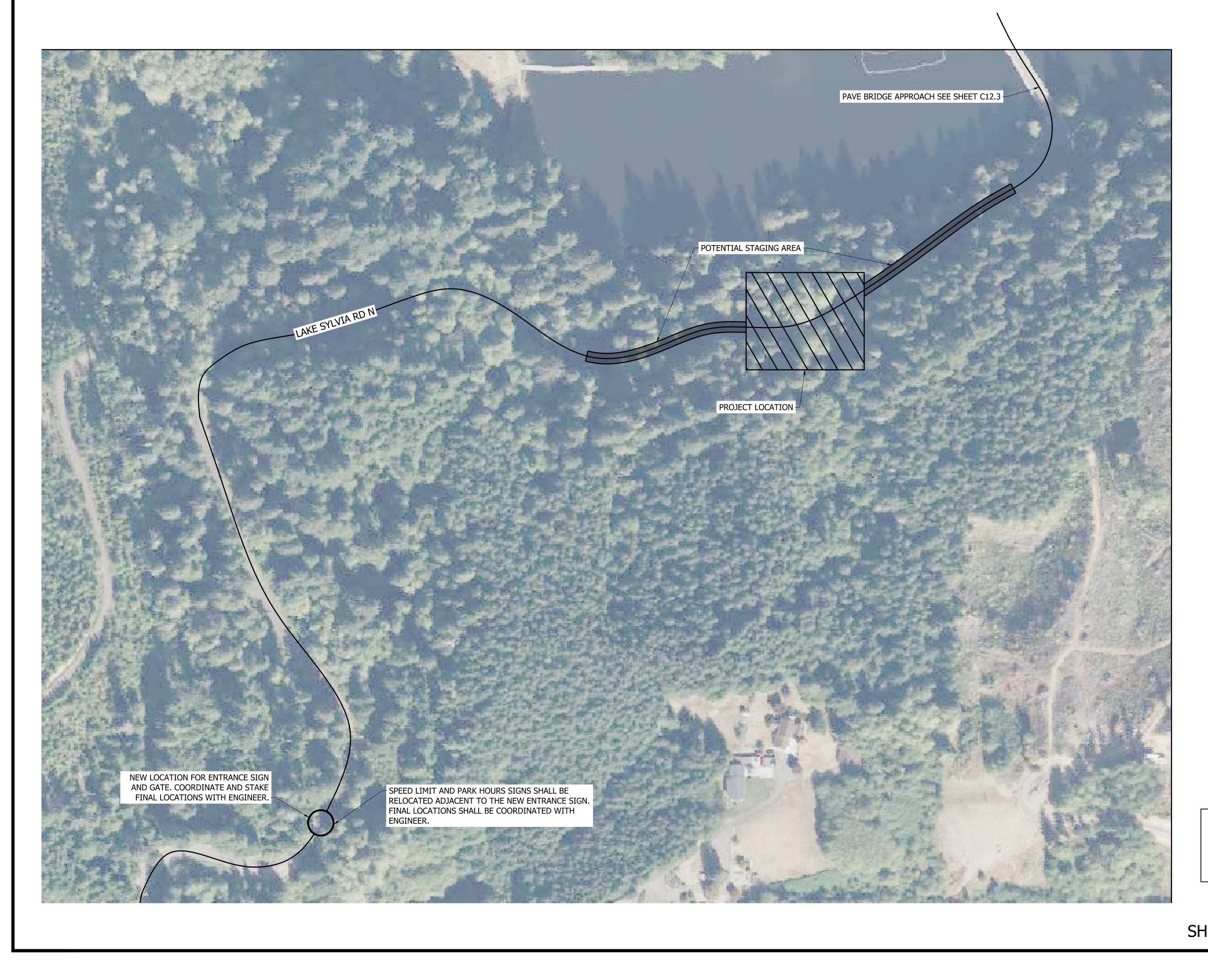
- CUT DAMAGED END TO LEAVE TWO BUDS EXPOSED

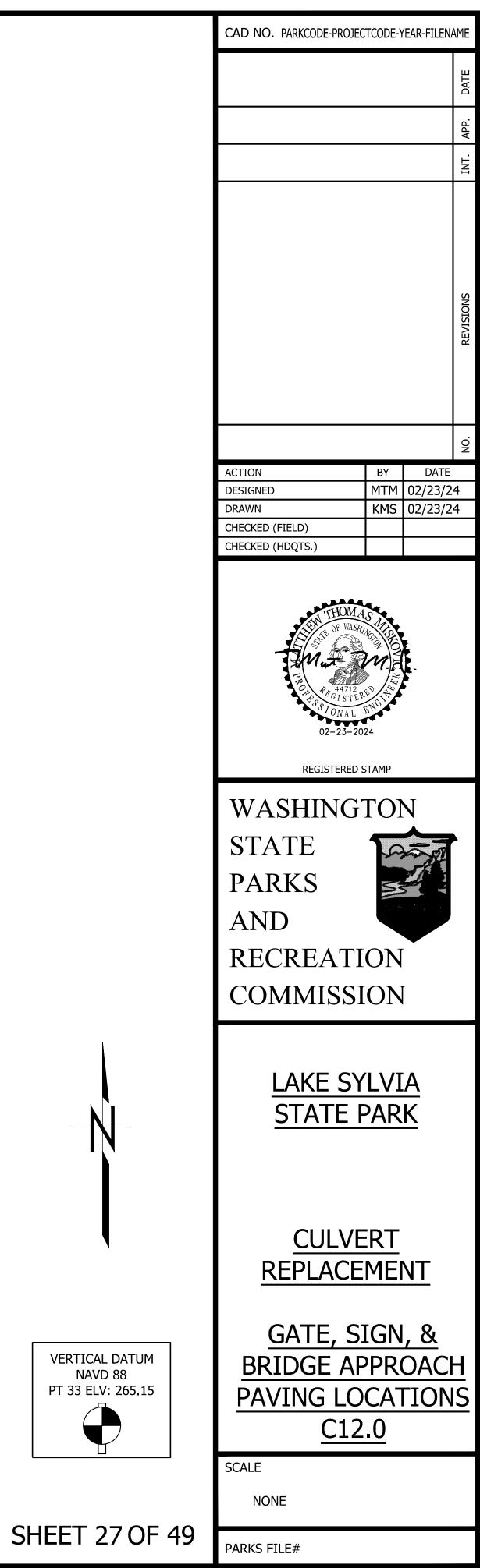
- EXISTING SOIL

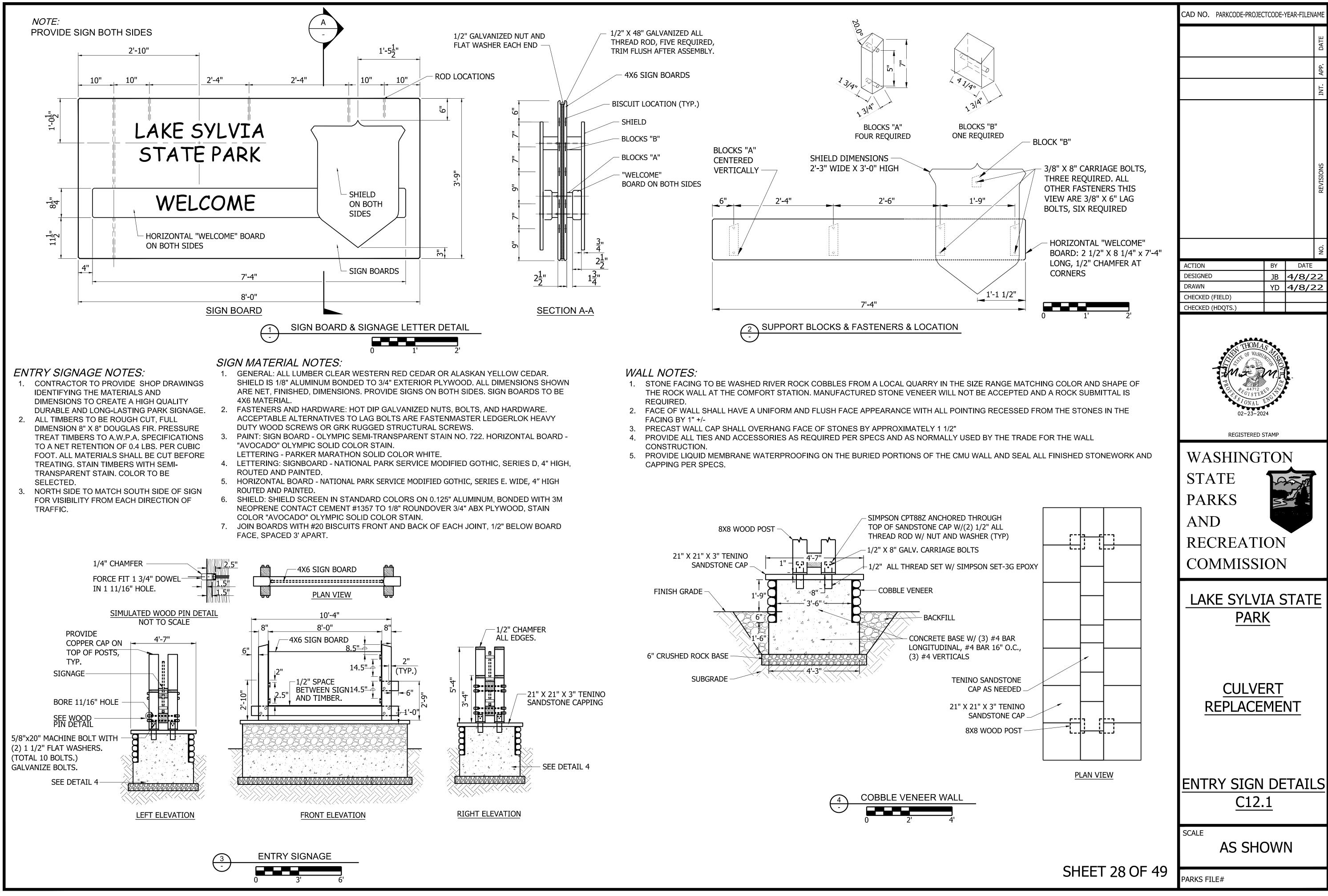
SHEET 25 OF 49

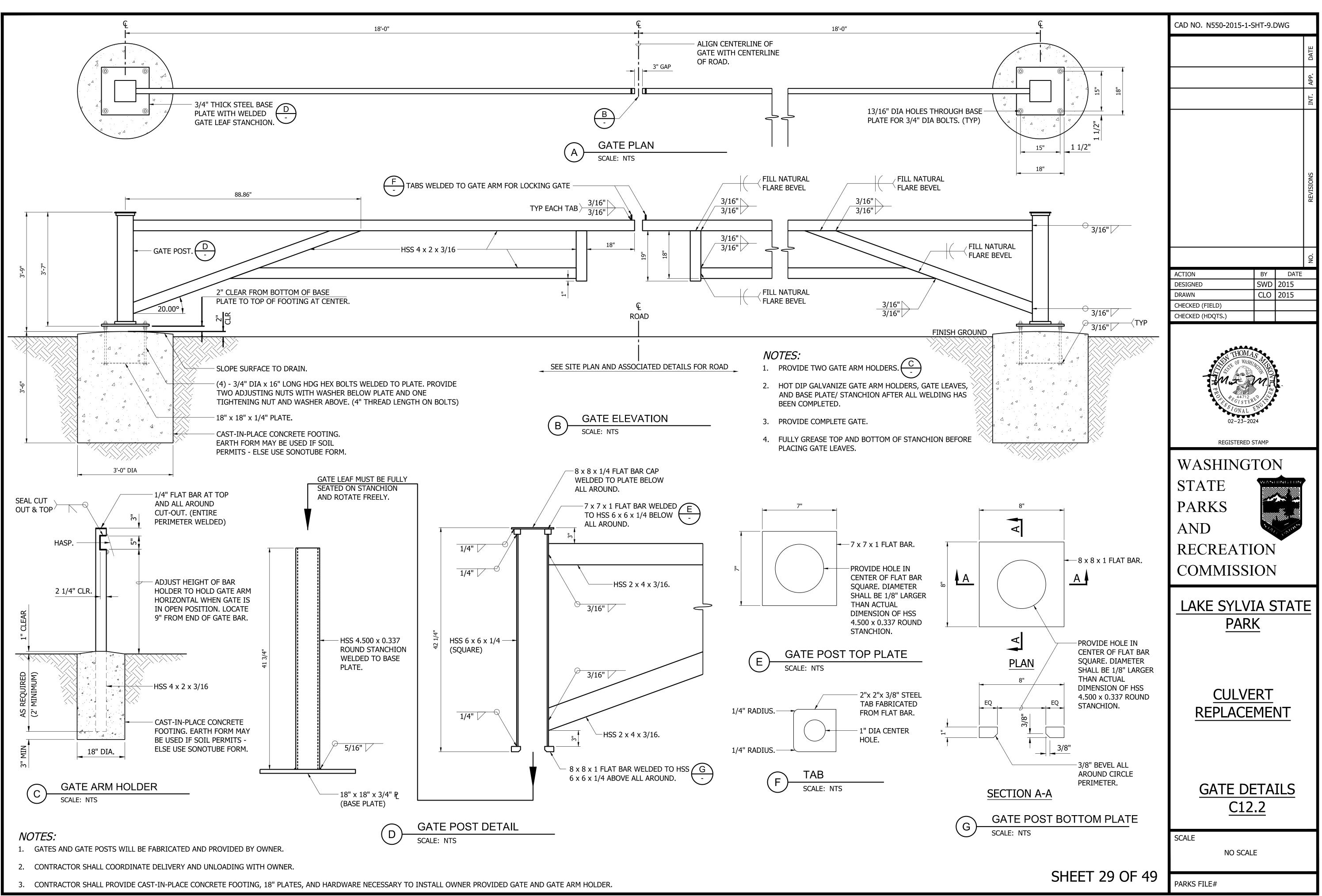


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NG CONTOUR LINES. ENDS SHALL ANGLE UPHILL TO		
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N 8-01.3(6)A. ALL MATERIALS USED IN COIR LOGS		
SPECIFICATION, SECTION 8-01.3(15).		_
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PACING. TOP OF DIR LOG IN LINE ITOM OF COIR LOG YP.)	<u>LAKE SYLVIA</u> <u>STATE PARK</u>	
COIR LOG	<u>CULVERT</u> <u>REPLACEMENT</u>	
	<u>COIR LOG DETAIL</u> <u>C11.2</u>	
	SCALE NONE	
SHEET 26 OF 49	PARKS FILE#	











- 1. STATE PARKS TO PROVIDE BRIDGE REPAIRS AND SUBGRADE. CONTRACTOR TO PROVIDE PAVING AND SEAL.
- 2. ALL HMA TO BE PER STANDARD SPECIFICATIONS SECTION 5-04.

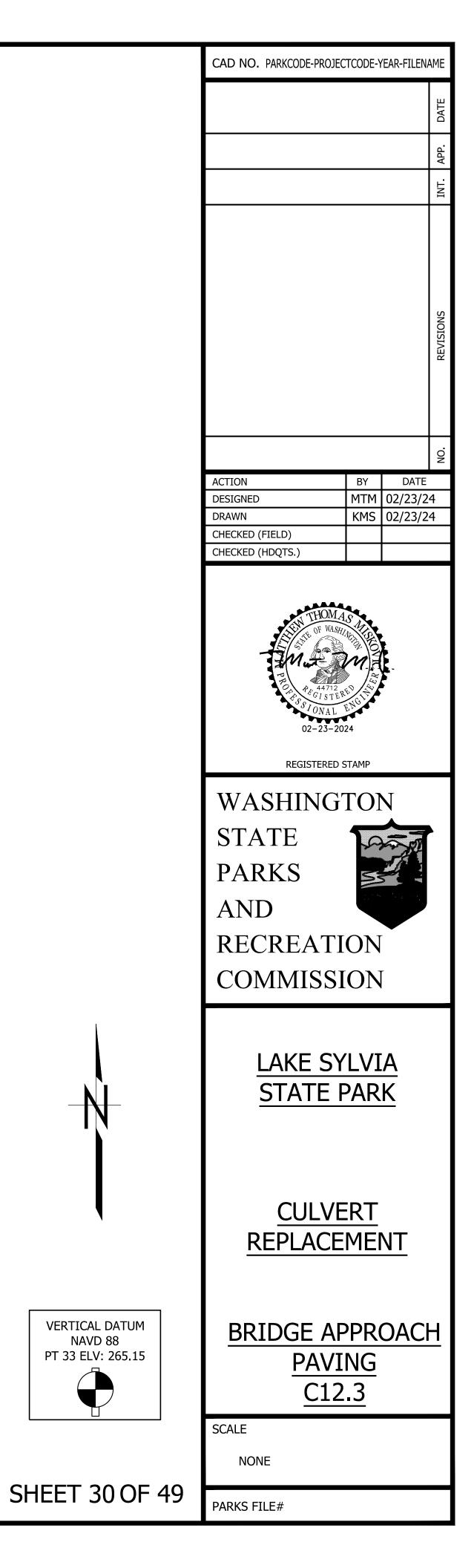


EXISTING BRIDGE ACROSS LAKE SYLVIA

4" DEPTH COMPACTED 1/2" CLASS (PG 58H-22) HMA AND SEAL

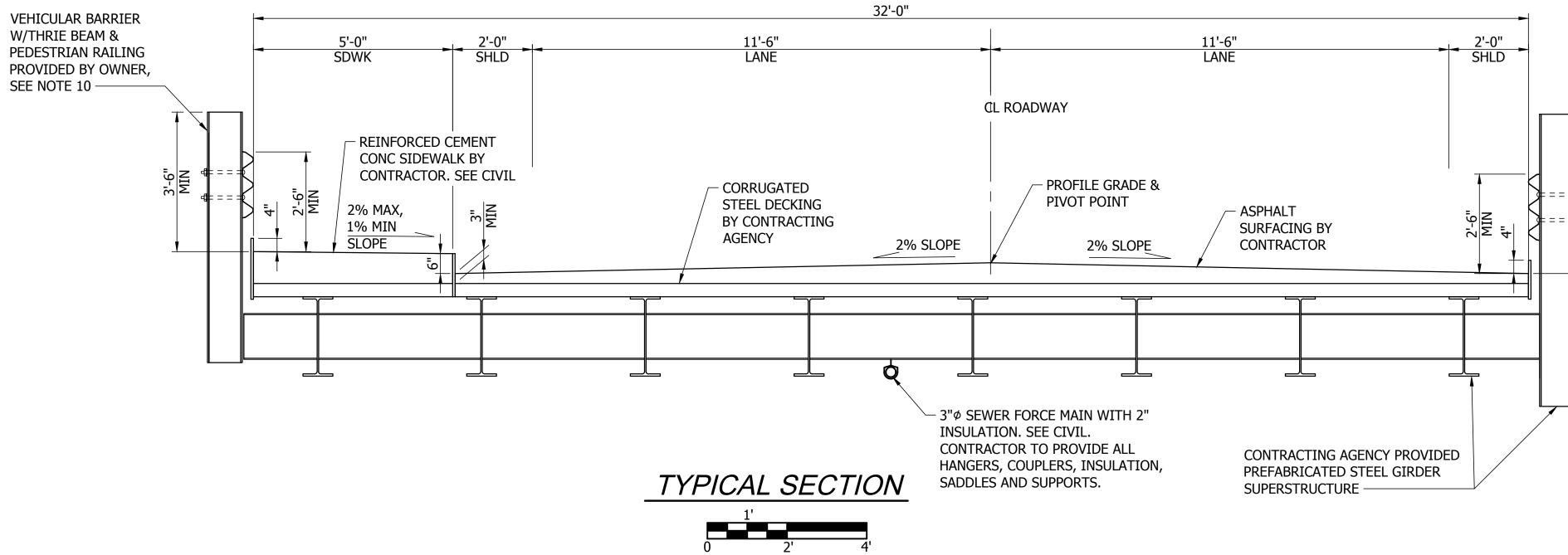
APPROX 8'

APPROX 40'





(GENERAL STRUCTURAL NOTES
1.	ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON DEPARTMENT OF TRANSPORTATION (WSDOT) "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION", DATED 2024 WITH AMENDMENTS AND THE PROJECT SPECIAL PROVISIONS.
2.	THIS SUBSTRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
3.	THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 2ND EDITION AND INTERIMS THROUGH 2022. THE FOLLOWING PARAMETERS WERE USED FOR THE SEISMIC DESIGN: PGA = $0.418G$, SS = $0.966G$, S1 = $0.421G$, SITE CLASS D.
4.	UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR SHALL BE 3" FOR CONCRETE CAST AGAINST GROUND SURFACE AND 2" AT OTHER LOCATIONS.
5.	ALL EXTERIOR CONCRETE CORNERS AND EDGES SHALL HAVE A 3/4" CHAMFER, AND ALL INTERIOR CONCRETE CORNERS SHALL HAVE A 3/4" FILLET.
6.	MATERIALS: ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO AASHTO M31, GRADE 60 OR ASTM A706 GR 60, UNLESS NOTED OTHERWISE.
	CONCRETE MAY BE MIXED ON-SITE PER SECTION 6-02.3(4)B. CONCRETE SHALL BE CLASS 4000.
	ALL STRUCTURAL STEEL FOR BRIDGE AND RAILING SHALL BE WEATHERING STEEL AND ADHERE TO ASTM A588.
	MATERIALS NOT IDENTIFIED IN THESE GENERAL NOTES ARE IDENTIFIED ON RELEVANT PLANS OR IN THE SPECIFICATIONS.
7.	LANDAU ASSOCIATES INC. PROVIDED THE GEOTECHNICAL BASIS FOR DESIGN IN THE REPORT DATED 10/25/2022.
8.	DESIGN LOADS: <u>DEAD LOAD:</u> CONCRETE SIDEWALK - 155 PCF STEEL - 490 PCF ASPHALT WEARING SURFACE - 140 PCF UTILITIES - 175 PLF
	LIVE LOAD:VEHICLE- AASHTO HL93 W/IMPACTRAILING- TL-3 RATING
9.	SEE SPECIAL PROVISIONS FOR CONTRACTING AGENCY PROVIDED PREFABRICATED STEEL GIRDER SUPERSTRUCTURE, PRECAST CONCRETE SILL AND BACKWALL STORAGE LOCATION. CONTRACTING AGENCY PROVIDED STRUCTURE SHALL BE INSTALLED BY THE CONTRACTOR.
10.	REMOVE PROVIDED BRIDGE THRIE-BEAM AND REPLACE WITH AESTHETIC TREATED THRIE BEAM RAIL TO MATCH GUARDRAIL.



GRS-IBS ABUTMENT NOTES:

1. THE GRS-IBS ABUTMENT IS A CONTRACTOR DESIGNED ELEMENT AND SHALL MEET THE REQUIREMENTS OF SECTION 6-13 OF THE STANDARD SPECIFICATIONS AND THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) 2018 DESIGN AND CONSTRUCTION GUIDELINES FOR GEOSYNTHETIC REINFORCED SOIL ABUTMENTS AND INTEGRATED BRIDGE DESIGN. SOIL REINFORCEMENT SHALL BE A HIGH STRENGTH GEOSYNTHETIC REINFORCEMENT WOVEN GEOTEXTILE OR GEOGRID THAT SHALL MEET THE REQUIREMENTS OF 6-13 AND 9-33 OF THE STANDARD SPECIFICATIONS. THE SOIL REINFORCEMENT SHALL HAVE THE MINIMUM TENSILE PROPERTIES:

GRS-IBS ZONE:

MINIMUM ULTIMATE DESIGN STRENGTH OF 16,500 LB/FT WITH GRAVEL BORROW FOR GEOSYNTHETIC RETAINING WALL.

GRS-IBS ABUTMENT SHALL BE DESIGNED USING THE FOLLOWING UNFACTORED BRIDGE SUPERSTRUCTURE **REACTIONS AT EACH ABUTMENT:** 19.6 KIPS (LONGITUDINAL)

36.0 KIPS (LONGITUDINAL)

92.2 KIPS (LONGITUDINAL)

DC	27.75 KIPS	TU
DW	74.14 KIPS	BR
LL	134.55 KIPS	EQ
LL (+IM)	170.70 KIPS	

CONFIRM REACTIONS LISTED ABOVE AND UPDATED AS NECESSARY WITH FINAL DESIGN REACTIONS FROM THE BRIDGE SUPPLIER.

2. GEOSYNTHETIC SPACING IN GRS-IBS ABUTMENT - SHALL NOT TO EXCEED 8".

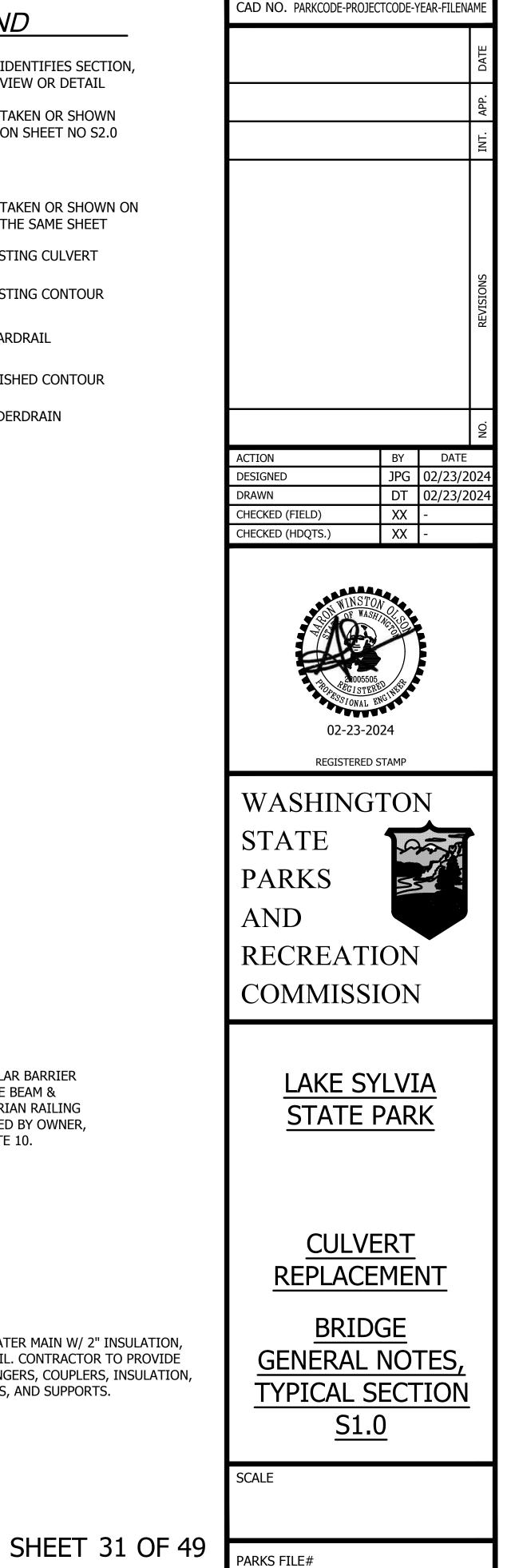
GEOSYNTHETIC SPACING BEHIND GIRDER BACKWALL AND PRECAST CONCRETE SILL SHALL BE 12" MAXIMUM.

GEOSYNTHETIC SHALL BE A CONTINUOUS PIECE (NO SEAMS) FROM FRONT FACE OF ABUTMENT TO END OF REINFORCEMENT ZONE. SPLICES ARE ALLOWED PARALLEL TO BRIDGE LAYOUT LINE. SPLICES SHALL OVERLAP A MINIMUM OF 2FT.

- 3. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE GRS-IBS AND WINGWALL SUBGRADE PRIOR TO FILL PLACEMENT.
- 4. ALL DESIGN, FABRICATION AND CONSTRUCTION REQUIRED FOR THE GRS-IBS ABUTMENT SHALL BE INCLUDED IN THE BID ITEM "BRIDGE INSTALLATION".
- 5. SOIL AND WALL PARAMETERS FOR GRS-IBS DESIGN:

ITEM	PROPERTIES
WALL BACKFILL MATERIAL GRAVEL BORROW FOR STRUCTURAL EARTH WALLS	UNIT WEIGHT = 135 PCF FRICTION ANGLE = 38 DEGREES COHESION = 0 PSF
RETAINED SOIL GRAVEL BORROW	UNIT WEIGHT = 135 PCF FRICTION ANGLE = 38 DEGREES COHESION = 0 PSF
RETAINED SOIL NATIVE SOILS	UNIT WEIGHT = 115 PCF FRICTION ANGLE = 28 DEGREES COHESION = 0 PSF
FOUNDATION SOIL MARINE SEDIMENTARY ROCK	UNIT WEIGHT = 125 PCF FRICTION ANGLE = 30 DEGREES COHESION = 500 PSF UNFACTORED BEARING CAPACITY = 20 KSF SERVICE (1" SETTLEMENT) BEARING CAPACITY = 7 KSF
FOUNDATION SOIL GRAVEL BACKFILL	UNIT WEIGHT = 135 PCF FRICTION ANGLE = 38 DEGREES COHESION = 0 PSF UNFACTORED BEARING CAPACITY = 20 KSF SERVICE (1" SETTLEMENT) BEARING CAPACITY = 7 KSF
SEISMIC PARAMETER	$A_{\rm S} = 0.452 {\rm G}$

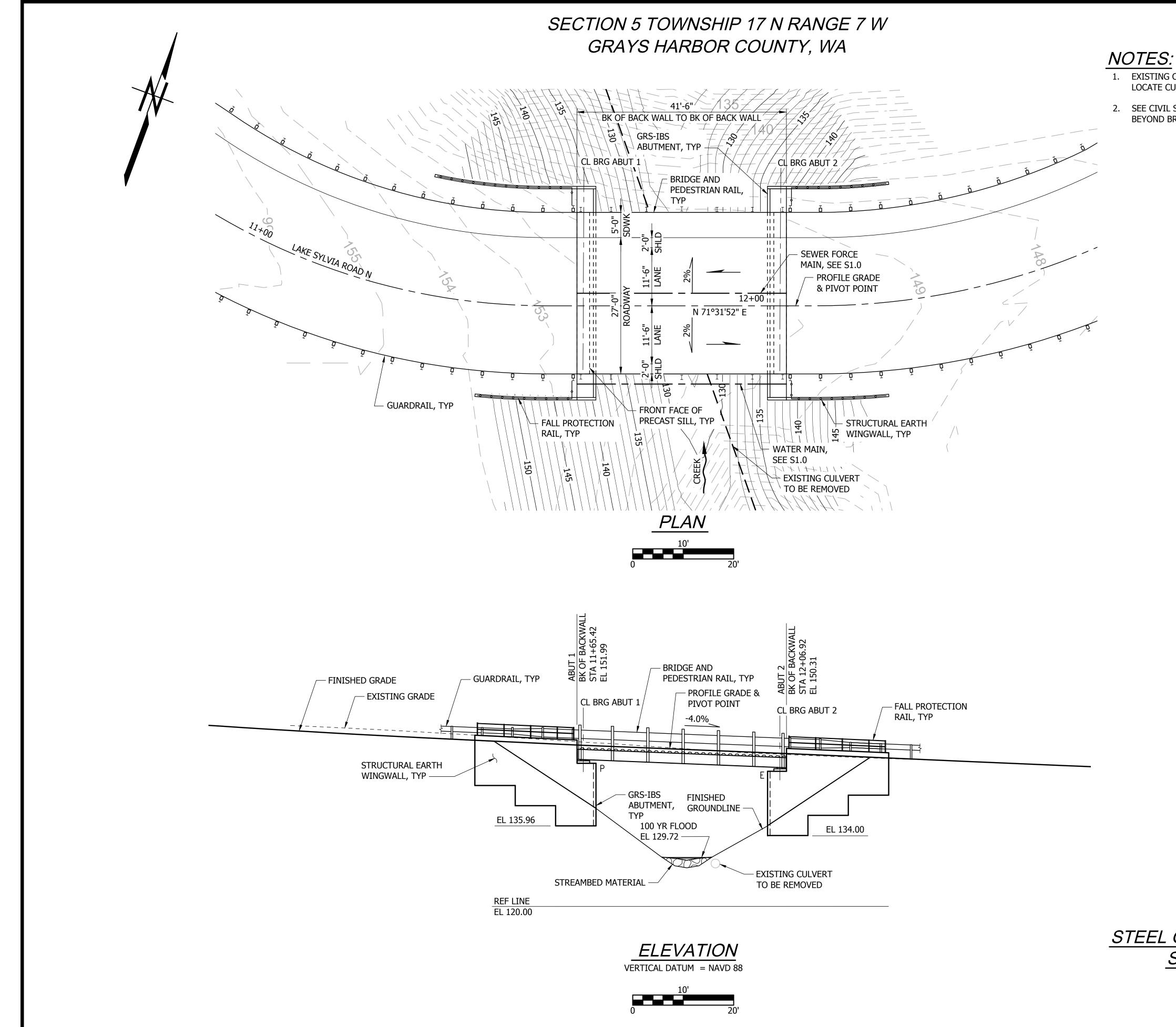
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W/THRIE BEAM & PEDESTRIAN RAILING PROVIDED BY OWNER, SEE NOTE 10. 4'-0" MIN MATCH TOP ELEV OF NORTH BARDIEI 1'-6" MIN

- 12"Ø WATER MAIN W/ 2" INSULATION, SEE CIVIL. CONTRACTOR TO PROVIDE ALL HANGERS, COUPLERS, INSULATION, SADDLES, AND SUPPORTS.

- VEHICULAR BARRIER



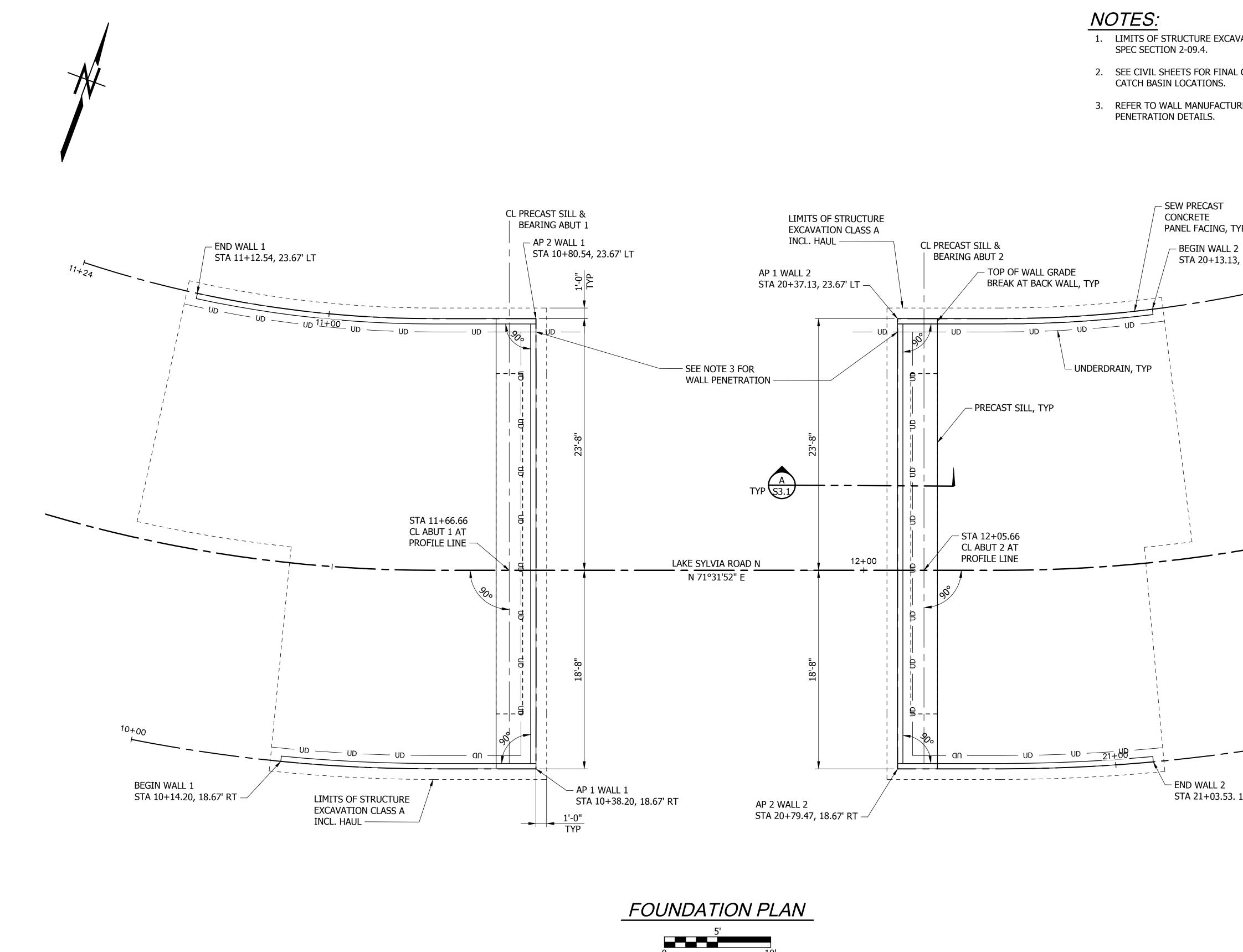
1. EXISTING CULVERT LOCATION IS APPROXIMATE. CONTRACTOR TO LOCATE CULVERT IN SITU.

2. SEE CIVIL SHEETS FOR SEWER FORCE MAIN AND WATER MAIN BEYOND BRIDGE LIMITS.

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STEEL GIRDER PREFABRICATED SUPERSTRUCTURE LOADING: HL-93

SHEET 32 OF 49



JRE	EXCAVATION	CLASS A	DEFINED	PER	WSDOT	STD
9.4.						

2. SEE CIVIL SHEETS FOR FINAL GRADING AT WALLS, AND UNDERDRAIN

3. REFER TO WALL MANUFACTURER FOR UNDERDRAIN PIPE WALL

PANEL FACING, TYP

STA 20+13.13, 23.67' LT

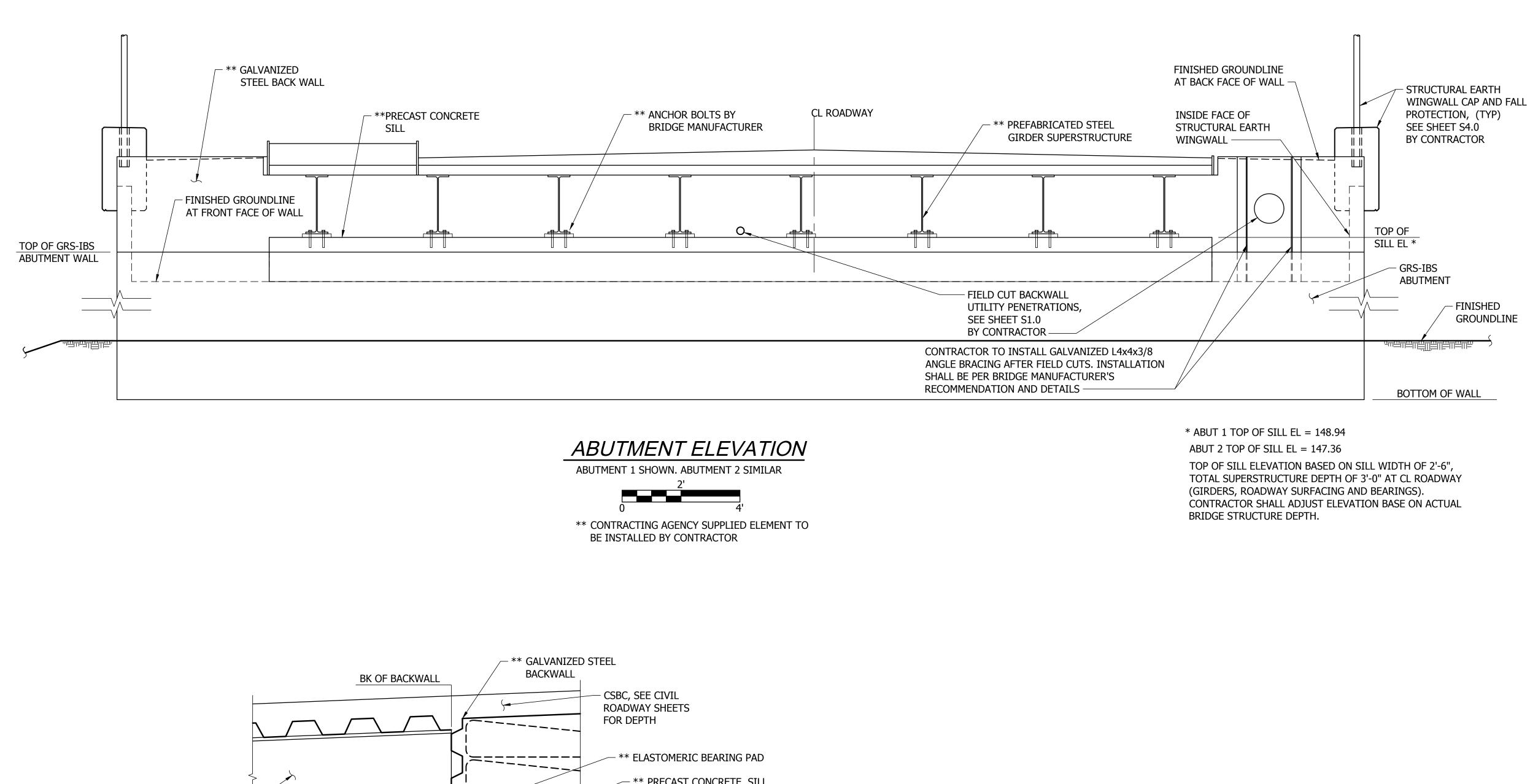
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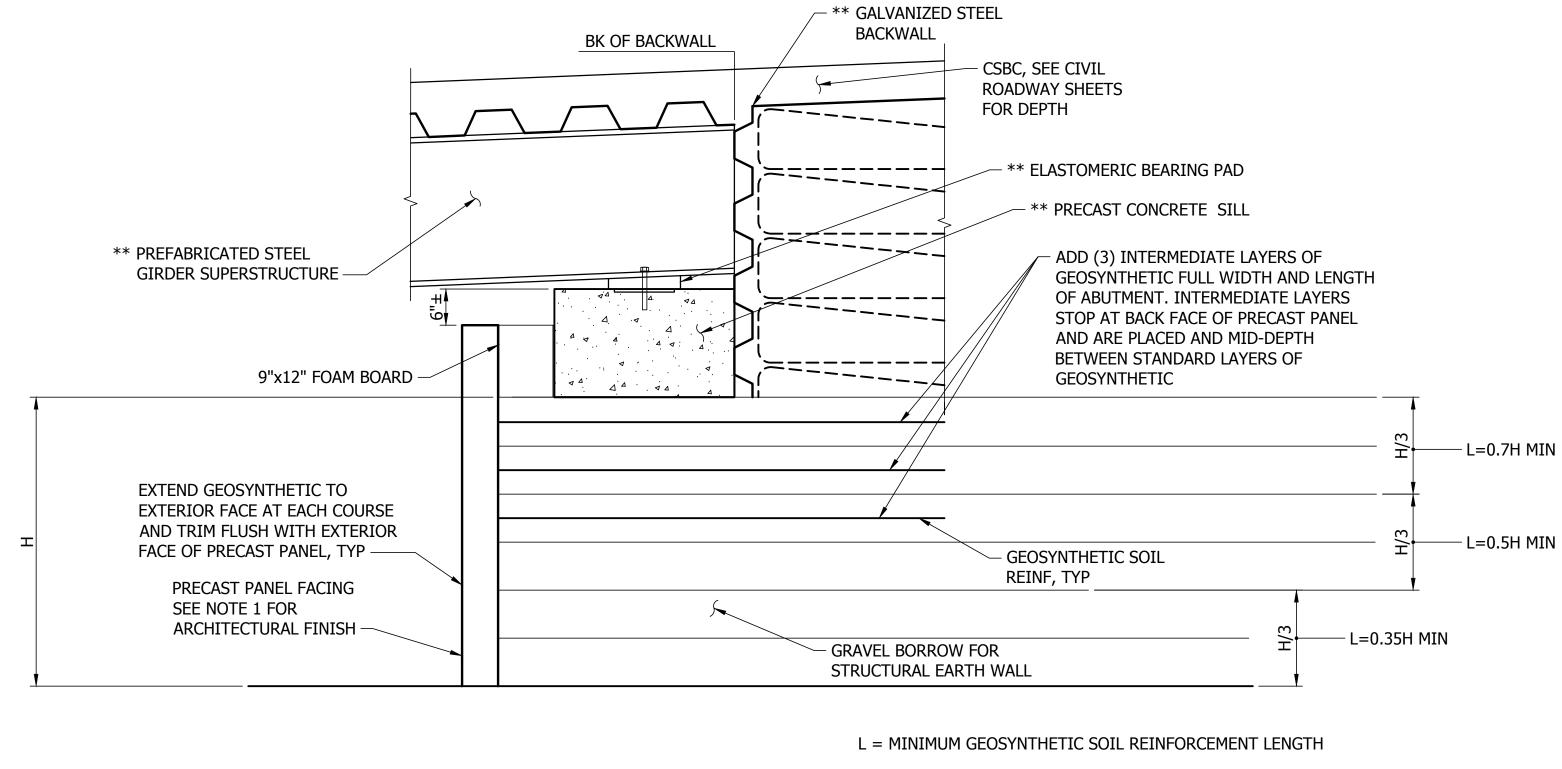
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-- END WALL 2 STA 21+03.53. 18.67' RT

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SHEET 33 OF 49 PARKS FILE#





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NOTES:

- BRIDGE BACKWALL IS 0.7 H.

1. SEE PROJECT SPECIFICATION FOR ARCHITECTURAL FINISH STYLE.

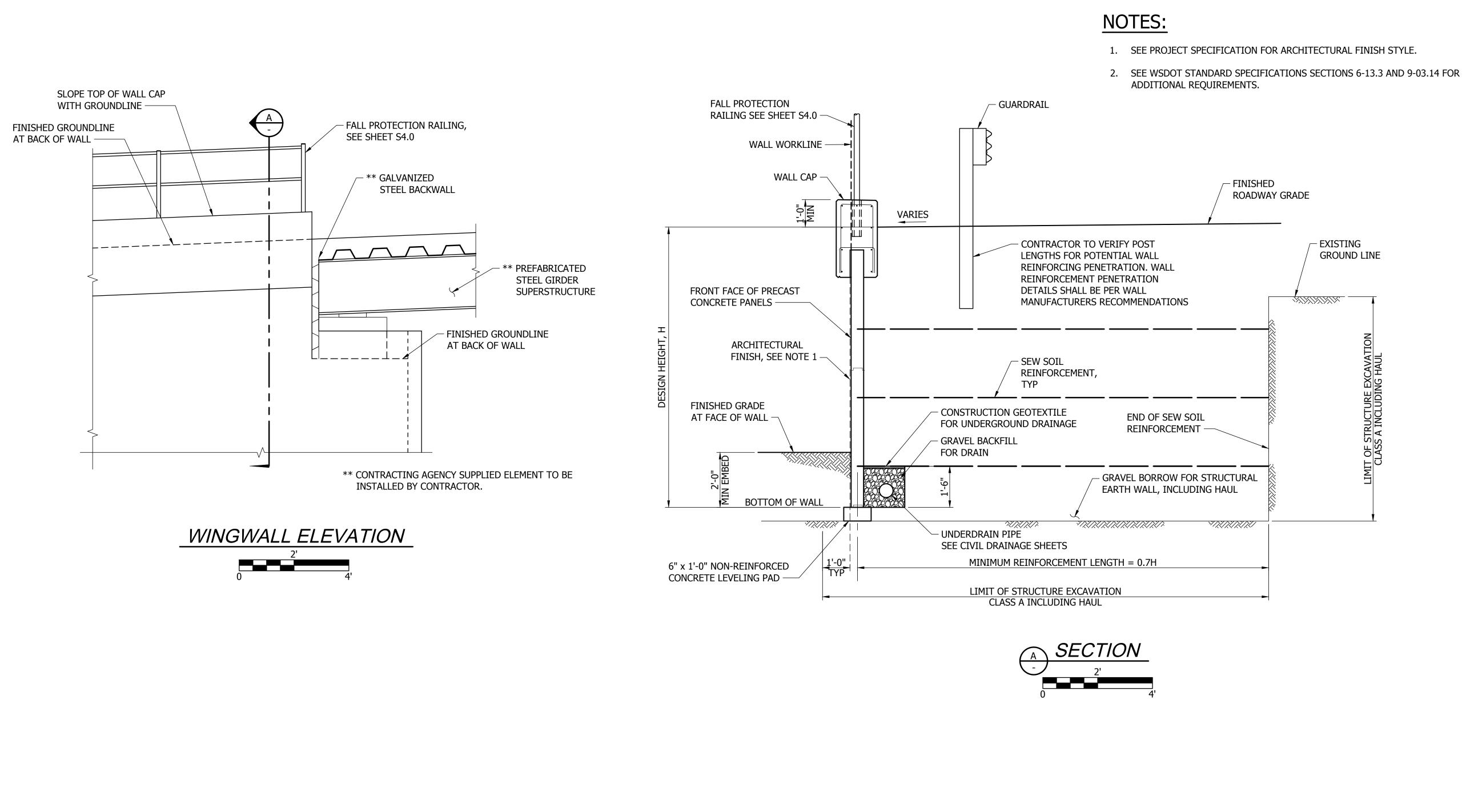
2. MINIMUM GEOSYNTHETIC SOIL REINFORCEMENT LENGTH BEHIND

3. BACKWALL PENETRATION LOCATIONS, AREAS WITH DAMAGED PAINT, AND BACKWALL ANGLE BRACING SHALL BE PAINTED WITH BLACK ONE COAT CORATHANE 1 COAL TAR PER PROJECT SPECIFICATIONS.

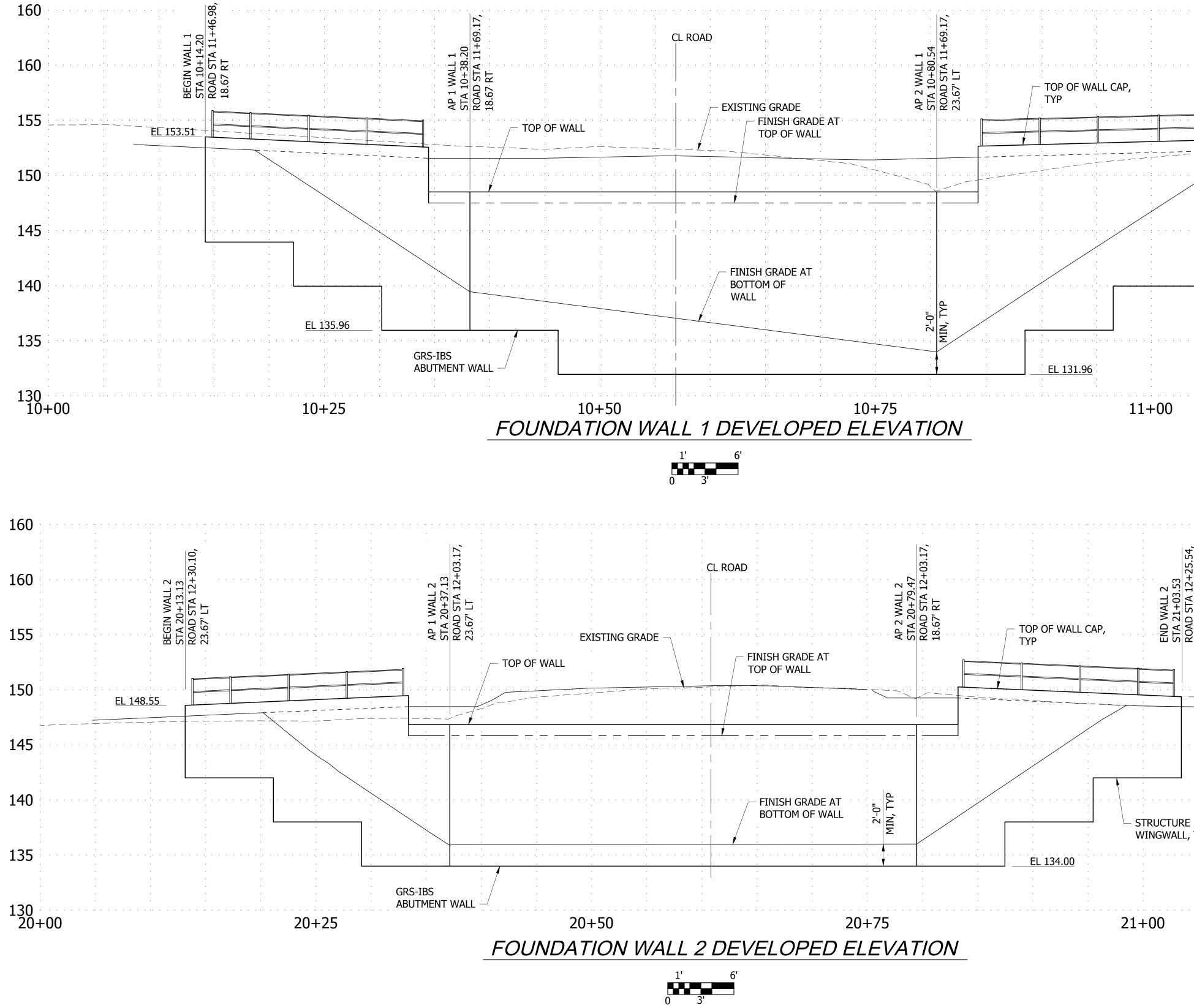
SHEET 34 OF 49

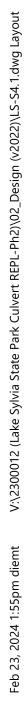
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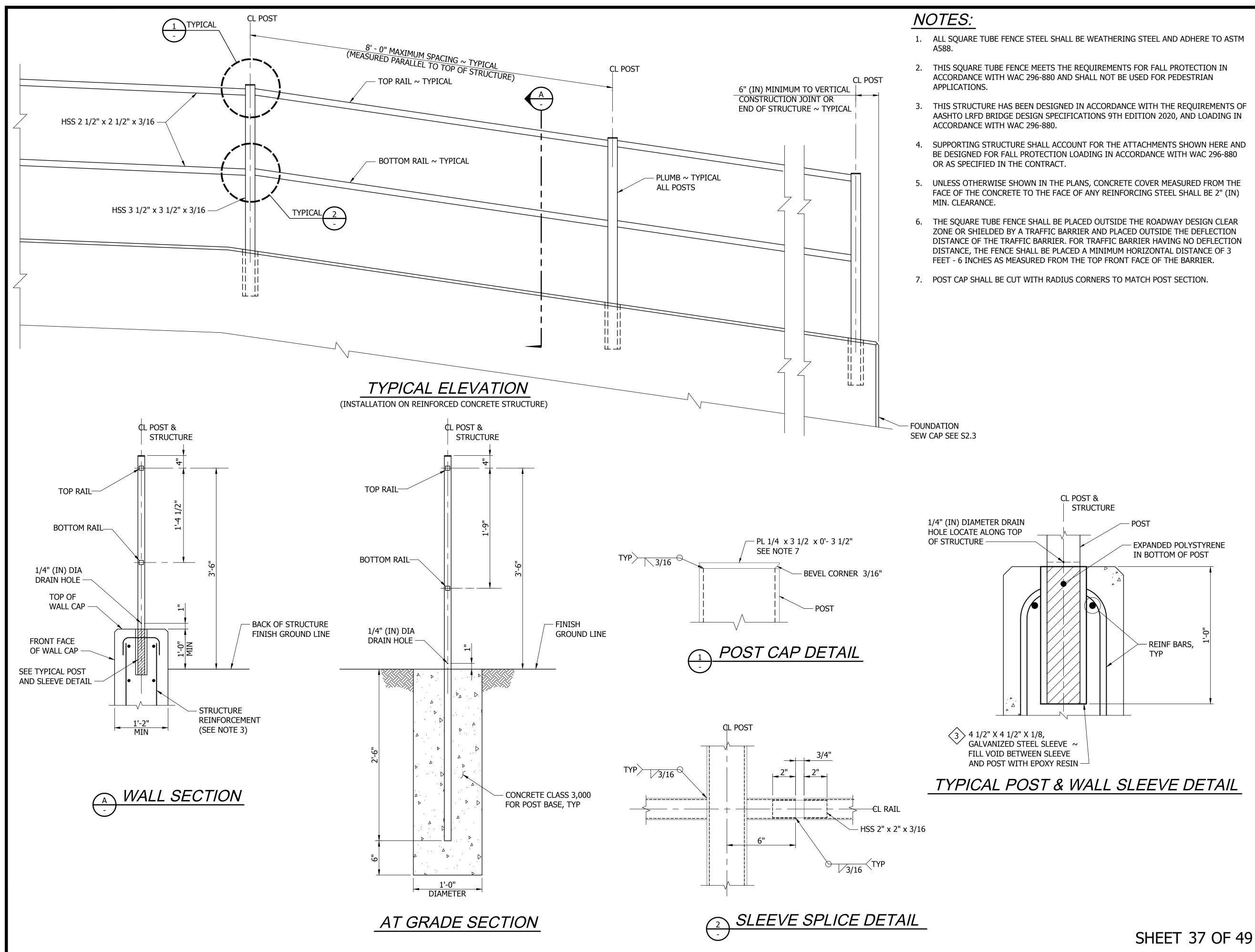




NOTES:

- 1. BOTTOM OF WALL SHOWN IS FO BOTTOM OF WALL/STEP LOCATIO SUBGRADE SHALL BE MARINE SE UNSUITABLE FILL TO MSR AND B
- 2. WALL ELEVATIONS ARE TAKEN A
- 3. GRS-IBS ABUTMENT WALL GEOS DETAIL A S3.0.
- 4. WINGWALL SEW SOIL REINFORCE EMBEDMENT PER AASHTO LRFD

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CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

41'-6" x 32'-0" AKE SYLVIA BRIDGE MONTESANO, WA





41'-6" x 32'-0" LAKE SYLVIA BRIDGE ROLLED GIRDER - SITE-SPECIFIC MODULAR MONTESANO, WA

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SelSMC LOADNOPER ABSHTCLERP BRIDGE DESIGN SPECIFICATIONS SECTION 3:10. TRANSVERSE LOADS C4.ULATEO USING THE TRANSVERSE PERIOD OF THE ADDRESONAND MONTOR OF 1018 USED FOR THE CALLANTING OF THE BRIDGE AND LOADS C4.ULATION OF THE POLINDATION HADROP 1: 100: 75.000 (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (1110) (11		WIND SPEED = 11 WIND EXPOSURE	0 MPH CATE	I GORY = C		ECTION 3.8:					
		e. SEISMIC LOADING PEI BRIDGE AND LONGITU BEARING REACTIONS SEISMIC PARAMETER	R AASI DINAL IT SH	HTO LRFD BF LOADS CAL	RIDGE DESIGN SPECIFICATION CULATED USING A PERIOD OF RESPONSIBILITY OF THE FOUN	ZERO. A RESP	ONSE N	MODIFICATION FA	CTOR OF 1.0 IS US	ED FOR THE CALCUL	ATION OF
Sin Budge Structures the structure shall be show failed in accordance with any for the balance besides appendix and the structure shall be show fabric and the show fabric and		PGA = 0.418									
1. OTHER LOADS: JUNCT LOAD TO KYTERIOR GIRDER OF 129 PLF MAX UILITY LOAD TO KYTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 29 PLF MAX JUNCT GIRL AS UNCTAINED AND LOCADANCE WITH ANS D1. JUNCT LOAD TO INTERIOR GIRDER OF 32 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 32 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF 32 PLF MAX JUNCT LOAD TO INTERIOR GIRDER OF ABRICATED IN ACCORDANCE WITH ANS D1. JUNCT LOAD TO LOAD CONNECTIONS SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS. JUNCT GIRT AND TO LOAD CONNECTIONS ARE CONSIDERED TO BE PRETENSIONED CONNECTIONS. ALL DOLTS AUE TO BE PRETENSIONED PER THE REQUIRED FOR THACTURAL JUNCT USING HIGH-STRENDTH BOLTS BY RCSC. JUNCT GIRT AND TO CLANARED AND RETARAPRED IN HEE ANONT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH. IF HEE AND BOLTS NUTS AND WASHERS SHALL BE FURNISHED IN THE AMOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH. IF HEE AND BOLTS NUTS AND WASHERS SHALL BE FURNISHED IN THE AMOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH. IF HEE AND BOLTS DO NT SMOOTHLY ENGAGE UP TO SNUC-TIGHT, THERE MAY BE AN OBSTRUCTION WINT THE THE BOLT. ALL STRUCTURE, FOR JUNCT AND WINC CLANARED AND RETARAPPED IN ELCASSARY TO JUNC THE MEXADS ON THE BOLTS. THE BOLTS SHOULD BE REMOVED. HE THREADS ON THE BOLTS AND TO THE MODITY OF THE AMOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR ACH SIZE AND LENGTH. MANTENANCE NOTE: CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DE-ICING OR DUST PROHIBITY CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE, FOR JUNCT OR THE MEEDED FOR RECOMPONIES INTERPO		S ₁ = 0.421	חסוכ		T = 0.015 SEC						
 SINDRE RAIL DESIGNED FOR TL-3 LOADING IN ACCORDANCE WITH AASHTO LIFED BRIDGE DESIGN SPECIFICATIONS APPENDIX A13.2 (RAIL HAS NOT BEEN CRASH TESTED) BIDDE SITULTURE SHALL USE THE GAS METAL ARC WELDINO OR FLUX CORED ARC WELDINO PROCESS. CLEANING: ALL SURFACES OF STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 6, SSPC-SPB COMMERCIAL BLAST CLEANING. LLI STRUCTURAL BOLTED CONTROLFTONS ARE CONSIDERED TO BE PRETENSIONED CONNECTIONS. ALL BOLTS ARE TO BE PRETENSIONED PER THE REQUIREMENTS OF SECTION 2 OF THE SECTION AND WASHERS SINLI DE FURNINGED TO BE PRETENSIONED CONNECTIONS. ALL BOLTS ARE TO BE PRETENSIONED PER THE REQUIREMENTS OF SECTION 2 OF THE SECTION AND WASHERS SINLI DE FURNINGED TO THE MOUNT OF Y/IN EXCEPT DE SOLTON TO THE REQUIRE DO TO SACT CLEANING. ALL FIELD INSTALLED DOLTS, NUTS AND WASHERS SINLI DE FURNINGED IN THE AMOUNT OF Y/IN EXCEPT DE SOLTON WITHIN THE THEREOUNED FOR CACIN SOLTON SUBJECTION THERE MAY DE AN DESTRUCTION WITHIN THE THEREOUNED FOR CACIN SOLTAND THE CHANNER. ALL FIELD INSTALLED DOLTS, NUTS AND WASHERS SINLI DE FURNINGED IN THE AMOUNT OF Y/IN EXCEPT ON WITHIN THE THEREOUNED FOR CACIN SOLTAND THE RECOVERED FOR CACIN SOLTAND THE RECOVERED FOR CACIN SOLTAND THE RECOVERED FOR CACIN SOLTAND THE AND NUT CLEANED AND RECOMMENDES NOT APPLY TWO DE-IGNIG ON BUST PROVINTIE TO AND NUT CLEANED AND RECOMMENDES NOT APPLY TWO DE-IGNIG ON BUST PROVINTIE, CONTECH ENGINEERED SOLUTIONS WILL NOT E RESPONSIBILE FOR ANY RESULTANT ACCELERATED CORROSION. BURFACE WATER DRAINAGE OFF OF THE BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER MODERICATIONS DEILE FOR ANY RESULTANT ACCELERATED CORROSION. BURFACE WATER DRAINAGE OFF OF THE BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER MODIFICATIONS BEING MADE. 		f. OTHER LOADS:									
 BRIDGE STRUCTURE SHALL BE SHOP FABRICATED IN ACCORDANCE WITH AWS D1.5. ALL SHOP WELDING SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS. GLEANING: ALL SURFACES OF STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 6. SSPC-SP6 COMMERCIAL BLAST CLEANING. ALL STRUCTURAL BOLTED CONNECTIONS ARE CONSIDERED TO BE PRETENSIONED CONNECTIONS. ALL BOLTS ARE TO BE PRETENSIONED PER THE REQUIREMENTS OF SSPC-SP6 COMMERCIAL BOLTS, NUTS AND WASHERS SHALL BE FURNISHED IN THE ANOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH. IF HELD INSTALLED BOLTS, NUTS AND WASHERS SHALL BE FURNISHED IN THE ANOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH. IF HELD INSTALLED BOLTS DO NOT SMOOTHLY ENGAGE UP TO SNUG-TIGHT, THERE MAY BE AN OBSTRUCTURAL SOFTING. THERE AND INTO THE HELD INSTALLED BOLTS SHOULD BE REMOVED. THE HELD INSTALLED BOLTS ON OTHER DATE AND WASHERS SHALL BE FURNISHED IN THE ANOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH. THERE MAY BE AN OBSTRUCTURAL SOFTING. THERE AND INSTALLATION OF THE BOLT. MAINTENANCE NOTE: CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE, CONTECH ENGINEERED SOLUTIONS OR ON DUST PROHIBITIVE CHEMICALS OR SALTS ARE APPLIED TO ANY PART OF THE BRIDGE STRUCTURE, CONTECH ENGINEERED SOLUTIONS IF DOCH THE ORDER OF ANY TESTLITT ACCELERATED CORROSION. SURFACE WATER DRAINAGE OFF OF THE BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER BRIDGE DECK SYSTEM ARE NEEDED FOR DECK DRAINS GRAIN AGE, THEY MAY BE ADDED, HOWEVER THE DETALLS MUST BE APPROVED BY CONTECH ENGINEERED SOLUTIONS FRICK THE MODIFICATIONS BEING MADE. 		UTILITY LOAD TO INT	ERIO	R GIRDER OF	20 PLF MAX						
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SECTION 8.2 OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS BY RCSC. ALL FIELD INSTALLED BOLTS NUTS AND WASHERS SHALL BE FURNISHED IN THE AMOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH, IF FIELD INSTALLED BOLTS NUTS DO NOT SMOOTHLY ENGAGE UP TO SNUTCHIET. THERE MAY BE AN OBSTRUCTION WITHIN THE THERADS. THE BOLTS SHOULD BE REMOVED, THE THREADS ON THE BOLT AND NUT CLEANED AND RETAPPED IF NECESSARY TO ALLOW SMOOTH INSTALLATION OF THE BOLT. MAINTERNACE NOTE: CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DECING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDDE STRUCTURE, CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DECING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDDE STRUCTURE, CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DECING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDDE STRUCTURE, CONTECH ENGINEERED SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY RESULTANT ACCELERATED CORROSION. SURFACE WATER DRAINAGE OFF OF THE BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINAGE, OFF OF THE BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINAGE, OFT OF THE DECK SYSTEM ARE NEEDED FOR DECK DRAINAGE, THEY MAY BE ADDED, HOWEVER THE DETAILS MUST BE APPROVED BY CONTECH MODIFICATIONS PRIOR TO THE MODIFICATIONS BEING MADE.					LEANED IN ACCORDANCE WIT	H STEEL STRUC	CTURE	S PAINTING COUN	ICIL SURFACE PRE	PARATION SPECIFICA	TIONS NO. 6,
The optimizer of Methods on Vort South Processor of the Sout									RE TO BE PRETENS	IONED PER THE REQU	JIREMENTS OF
BRIDGE STRUCTURE. IF DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS ARE APPLIED TO ANY PART OF THE BRIDGE STRUCTURE, CONTECH ENGINEERED SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY RESULTANT ACCELERATED CORROSION. 13. SURFACE WATER DRAINAGE OFF OF THE BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER BRIDGE DECK IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS. IF DECK DRAINS OR ANY OTHER BRIDGE DECK DRAINAGE, THEY MAY BE ADDED, HOWEVER THE DETAILS MUST BE APPROVED BY CONTECH ENGINEERED SOLUTIONS PRIOR TO THE MODIFICATIONS BEING MADE. The despined formed to the decide bar of the decide ba		FIELD INSTALLED BOLTS DO	NOT	SMOOTHLY E	ENGAGE UP TO SNUG-TIGHT, T	HERE MAY BE A	AN OBS	TRUCTION WITHI	N THE THREADS, T		
MODIFICATIONS TO THE DECK SYSTEM ARE NEEDED FOR DECK DRAINAGE, THEY MAY BE ADDED, HOWEVER THE DETAILS MUST BE APPROVED BY CONTECH ENGINEERED SOLUTIONS PRIOR TO THE MODIFICATIONS BEING MADE.		BRIDGE STRUCTURE. IF DE	-ICING	GOR DUST PI	ROHIBITIVE CHEMICALS OR SA	LTS ARE APPLI	ED TO /				
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BRIDGE PLANK DECK NOTES:

- BRIDGE PLANK FASTENING: WELD EACH PIECE TO ALL GIRDERS WITH PLATE THICKNESS x 3" FILLET WELDS. WELD BETWI 1. WELDS EVERY 36". PLACE 1 1/2" FILLET WELD ON EDGE OF DECKING AT EACH SIDE OF LIFTING LUG. TOUCH UP WELDS WIT AND PERFORMANCE REQUIREMENTS OF ASTM A 780.
- 2. WEARING SURFACE INSTALLATION: WEARING SURFACE WEIGHT SHALL NOT EXCEED THE TOTAL WEARING SURFACE LOA SURFACE LOAD SHALL BE CALCULATED BY ADDING THE THICKNESS OF THE WEARING SURFACE ABOVE THE TOP OF THE OF THE INFILL AREA OF THE CORRUGATIONS AND MULTIPLYING BY THE UNIT WEIGHT OF THE WEARING SURFACE MATER AREA OF THE CORRUGATION SHALL BE 2 1/8".
 - a. GRAVEL WEARING SURFACE INSTALLATION PROCEDURE (WHEN APPLICABLE):
 - FILL DECK AREA WITH GRAVEL TO THE DESIRED DEPTH ABOVE THE TOP OF THE BRIDGE PLANK. GRADE GRAVEL ALONG THE LENGTH OF THE BRIDGE DECK SURFACE AS NECESSARY.
 - COMPACT GRAVEL AS NEEDED USING PLATE OR ROLLER COMPACTORS. USE CAUTION COMPACTING NEAR T b. ASPHALT WEARING SURFACE INSTALLATION PROCEDURE (WHEN APPLICABLE):
 - CLEAN BRIDGE PLANKS OF ALL FOREIGN MATTER.
 - APPLY TACK COAT OVER BRIDGE PLANK SURFACE, FILL AND COMPACT ALL CORRUGATIONS WITH ASPHALT.
 - WITH ASPHALT, THE CORRUGATIONS MAY BE FILLED WITH LEAN CONCRETE OR COMPACTED CRUSHED BASE
 - OVERLAY A LEVELING COURSE AND ADDITIONAL COURSES AS NECESSARY TO FINAL SURFACE ELEVATION AN COMPACT ASPHALT USING PLATE OR ROLLER COMPACTORS. USE CAUTION COMPACTING NEAR THE SIDE DA
 - c. CONCRETE WEARING SURFACE INSTALLATION PROCEDURE (WHEN APPLICABLE):
 - CLEAN BRIDGE PLANKS OF ALL FOREIGN MATTER.
 - PLACE FORM WORK AS NEEDED.
 - PLACE CRACK CONTROL REINFORCING STEEL. CONTECH ENGINEERED SOLUTIONS RECOMMENDS #3 BARS # FOR CRACK CONTROL REINFORCING STEEL.
 - PLACE AND FINISH CONCRETE. CONTECH ENGINEERED SOLUTIONS RECOMMENDS USING 3,000 PSI MINIMUM
 - IF LATERAL SHIFTING OR UPLIFT OF THE DECK IS A CONCERN, CONTECH ENGINEERED SOLUTIONS RECOMME THE BRIDGE PLANK VALLEYS AT 3'-0" X 3'-0" TO HELP TIE THE CONCRETE WEARING SURFACE TO THE BRIDGE
 - d. WOOD BOARD WEARING SURFACE INSTALLATION PROCEDURE (WHEN APPLICABLE): FIT WOOD BOARDS WITH STAGGERED JOINTS AND 1/2" MAXIMUM GAPS AT BOARDS. IF BOARDS ARE SHOP INS BOARDS. USE (2) 1/2" Ø GALVANIZED CARRIAGE BOLTS AT EACH END OF THE WOOD BOARDS AND ALTERNATE LOCKER OR DAMAGE THE THREADS UPON INSTALLATION OF THE NUTS TO PREVENT LOOSENING.
 - IF REQUIRED, WOOD MATERIAL SHALL BE TREATED TO MEET AWPA U1 UC4A GROUND CONTACT. ACCEPTABI (CA-C) TO A 0.15 PCF RETENTION OR TO REFUSAL OR EQUAL.

QUALITY ASSURANCE NOTES:

1. BRIDGE STRUCTURE SHALL BE INSPECTED IN ACCORDANCE WITH AWS D1.5 AND CONTECH'S QUALITY MANUAL. ADDITIO SPECIAL INSPECTIONS, ARE OUTSIDE OF CONTECH'S RESPONSIBILITY.

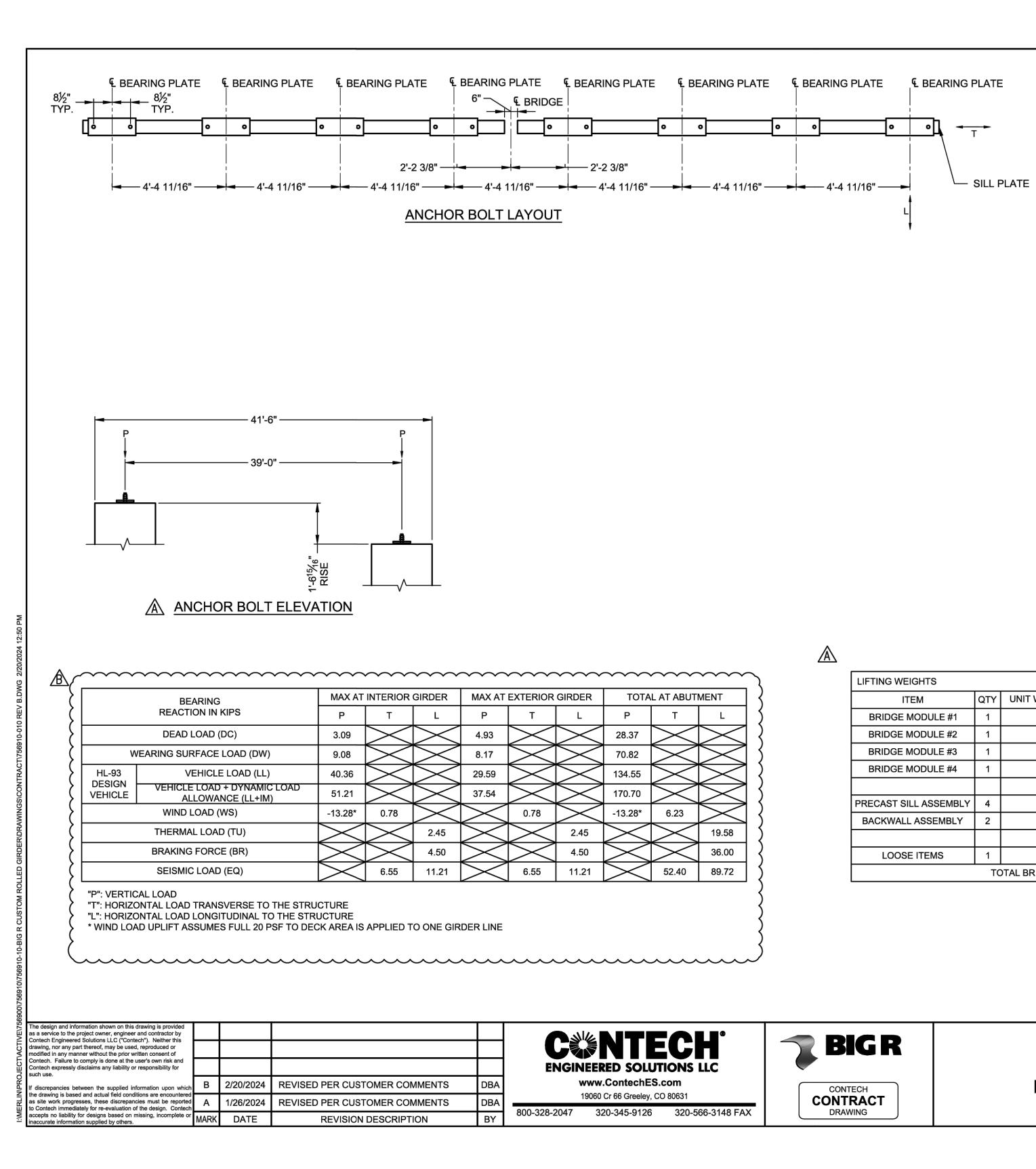




DRAWING

41'-6" x 32'-0" LAKE SYLVIA BRIDGE ROLLED GIRDER - SITE-SPECIFIC MODULAR MONTESANO, WA

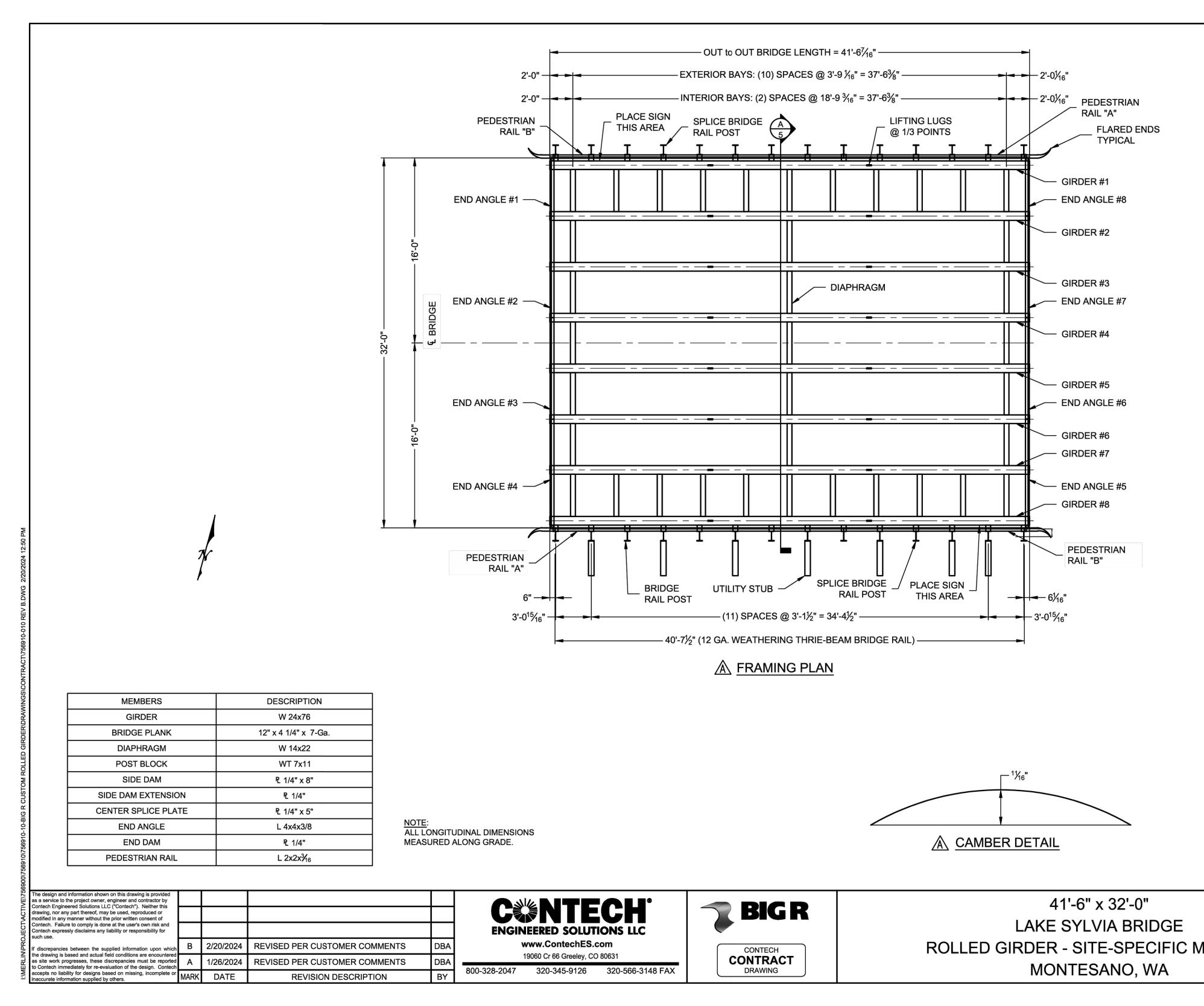
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EEN GIRDERS AT OVERLAPPING WITH 3" FILLET TH ZINC RICH PAINT MEETING THE MATERIAL		
AD PER GENERAL NOTE 4b. THE TOTAL WEARING E BRIDGE PLANK PLUS THE AVERAGE THICKNESS RIAL. THE AVERAGE THICKNESS OF THE INFILL		REVISIONS
HE SIDE DAMS.		REVI
AS AN ALTERNATIVE TO FILLING CORRUGATIONS		
ND COMPACT TO REQUIRED DENSITY.		
MS.		NO.
AT 12" EACH WAY OR WWF WITH 2" TOP COVER	ACTION BY DATE DESIGNED MTM 02/23/2	
CONCRETE WITH 5% ± 1% AIR CONTENT.	DRAWN KMS 02/23/3	
ENDS ADDING 1/2" HEADED ANCHOR STUDS IN PLANK.	CHECKED (FIELD) CHECKED (HDQTS.)	
NSTALLED, LEAVE 1/8" MINIMUM GAPS AT LOOSE		
E CENTERS AT 4'-0". USE A LIQUID THREAD		
NAL INSPECTIONS, INCLUDING FIELD, AND ANY		
	REGISTERED STAMP	
	WASHINGTON	
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	PARKS	
	AND	
	RECREATION	
	COMMISSION	
FE JON	COMMISSION	
SEAN LEE JOHNS	LAKE SYLVIA	
PROPASSIONAL ENCIDE	<u>STATE PARK</u>	
2/20/24	CULVERT	
PROJECT No.: SEQ. No.: DATE:	REPLACEMENT	
756910 010 1/9/2024 DESIGNED: DRAWN: DBA JRJ		
CHECKED: APPROVED: DBA SLJ	BRIDGE SHOP	
SHEET NO.: 2 OF 12	DRAWINGS	
	<u>56.0</u>	
	30.0	
	SCALE	
	NONE	
SHEET 39 OF 49		
STEEL 39 UF 49	PARKS FILE#	



LIFTING WEIGHTS			
ITEM	QTY	UNIT WEIGHT (LBS)	TOTAL WEIGHT (LBS)
BRIDGE MODULE #1	1	11,090	11,090
BRIDGE MODULE #2	1	11,650	11,650
BRIDGE MODULE #3	1	11,650	11,650
BRIDGE MODULE #4	1	13,470	13,470
PRECAST SILL ASSEMBLY	4	9430	37,720
BACKWALL ASSEMBLY	2	920	1,840
LOOSE ITEMS	1	9410	9,410
	тс	TAL BRIDGE WEIGHT:	96,830

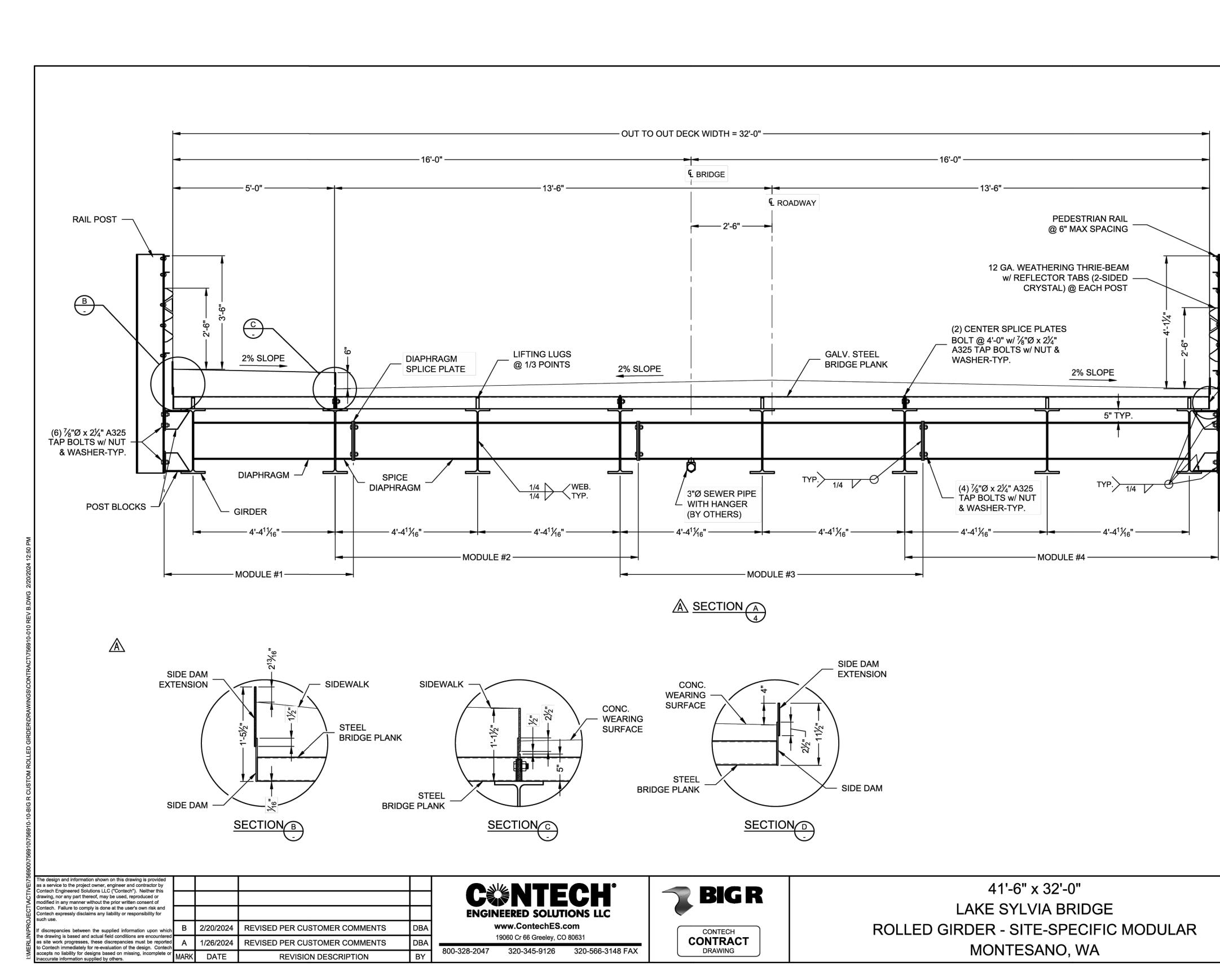
41'-6" x 32'-0" LAKE SYLVIA BRIDGE ROLLED GIRDER - SITE-SPECIFIC MODULAR MONTESANO, WA

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2/20/24		
CERTIFIED FABRICATOR	CULVERT	
PROJECT No.: SEQ. No.: DATE: 756910 010 1/9/2024	REPLACEMEN	NT
DESIGNED: DRAWN: DBA JRJ		
CHECKED: APPROVED: DBA SLJ SHEET NO.:	BRIDGE SHO	
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	SCALE	
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SHEET 40 OF 49	PARKS FILE#	

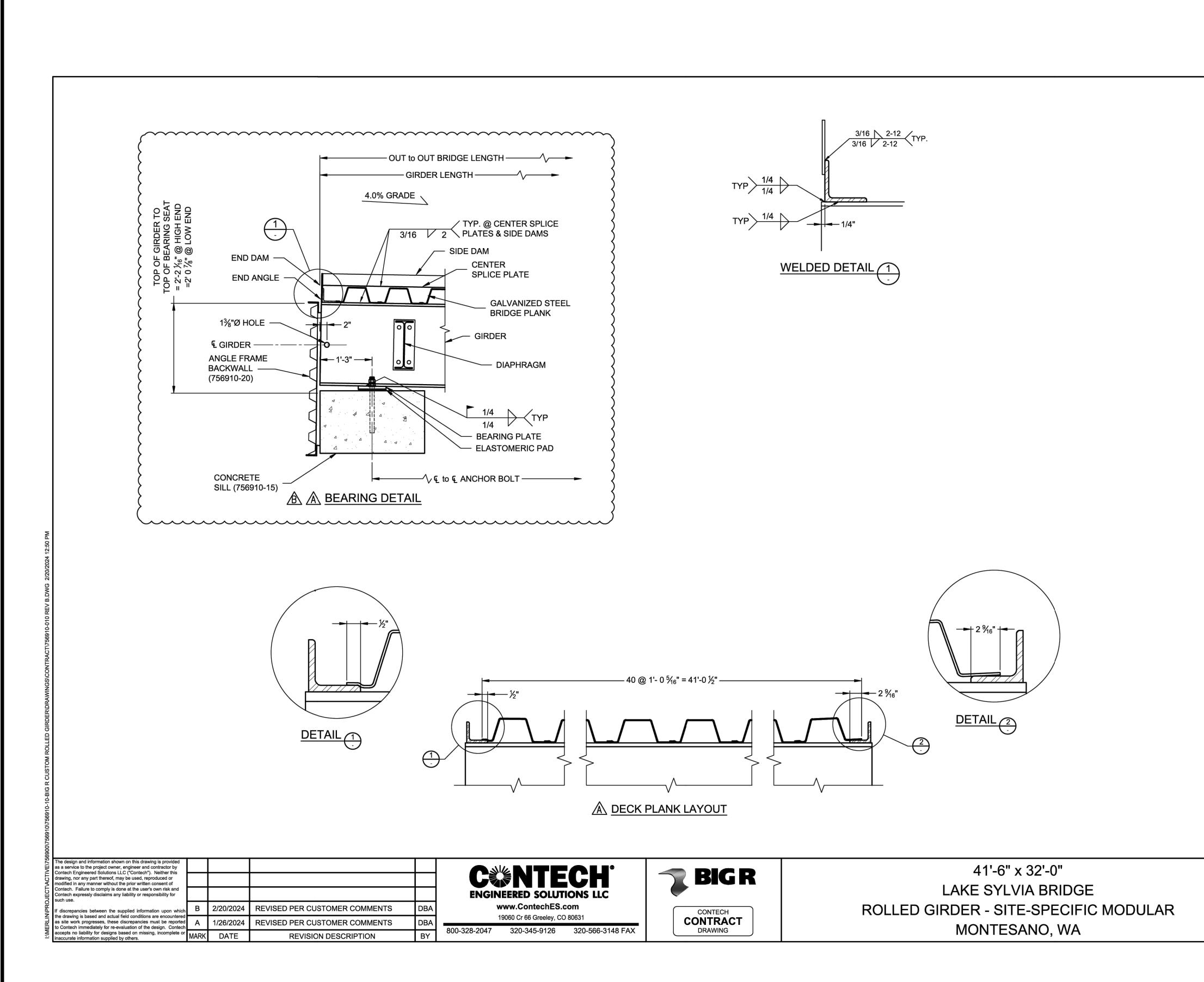


ROLLED GIRDER - SITE-SPECIFIC MODULAR

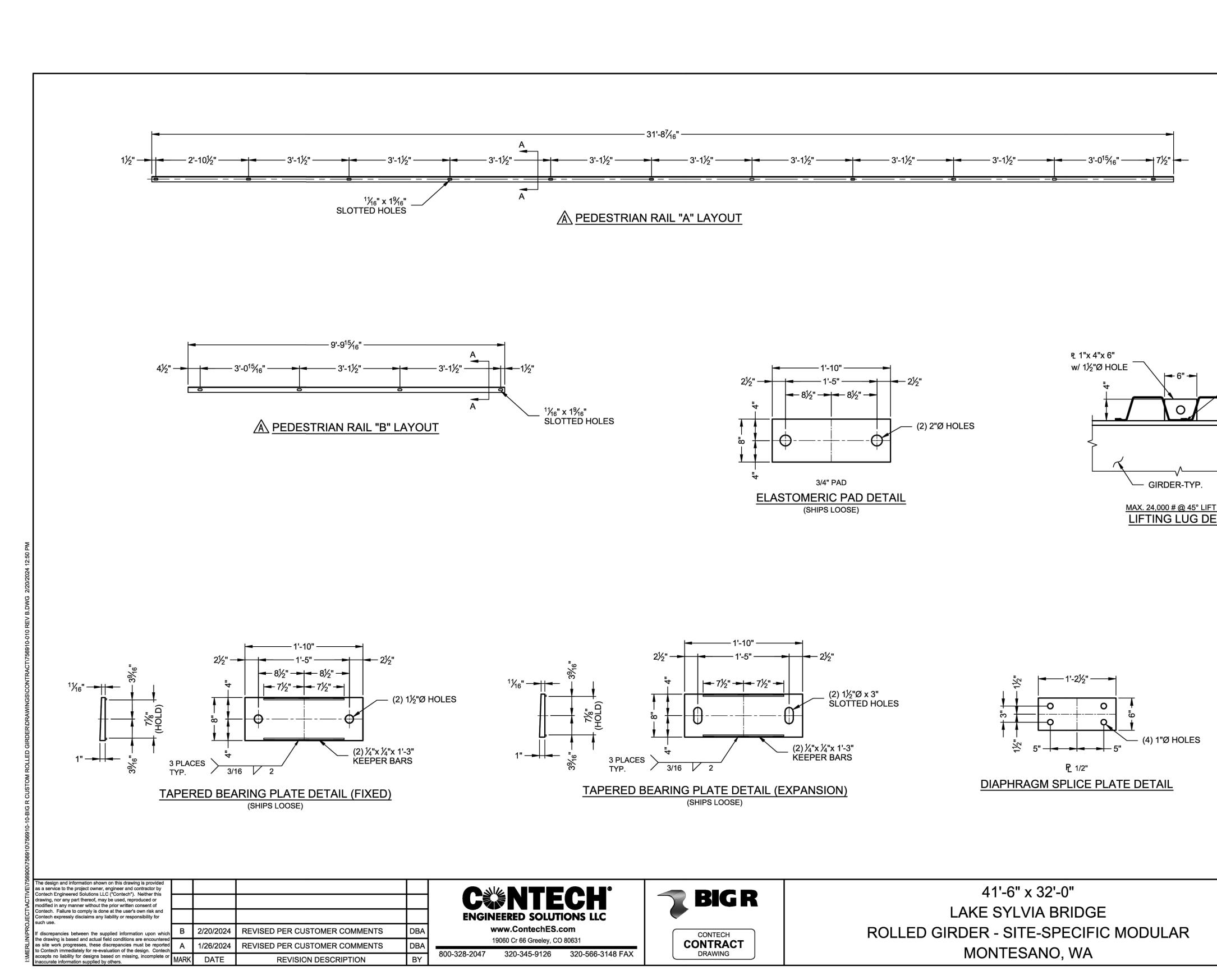
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2/20/24		
CERTIFIED FABRICATOR	CULVERT	
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DESIGNED: DRAWN: DBA JRJ CHECKED: APPROVED:		
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	SCALE	
	NONE	
SHEET 41 OF 49	PARKS FILE#	



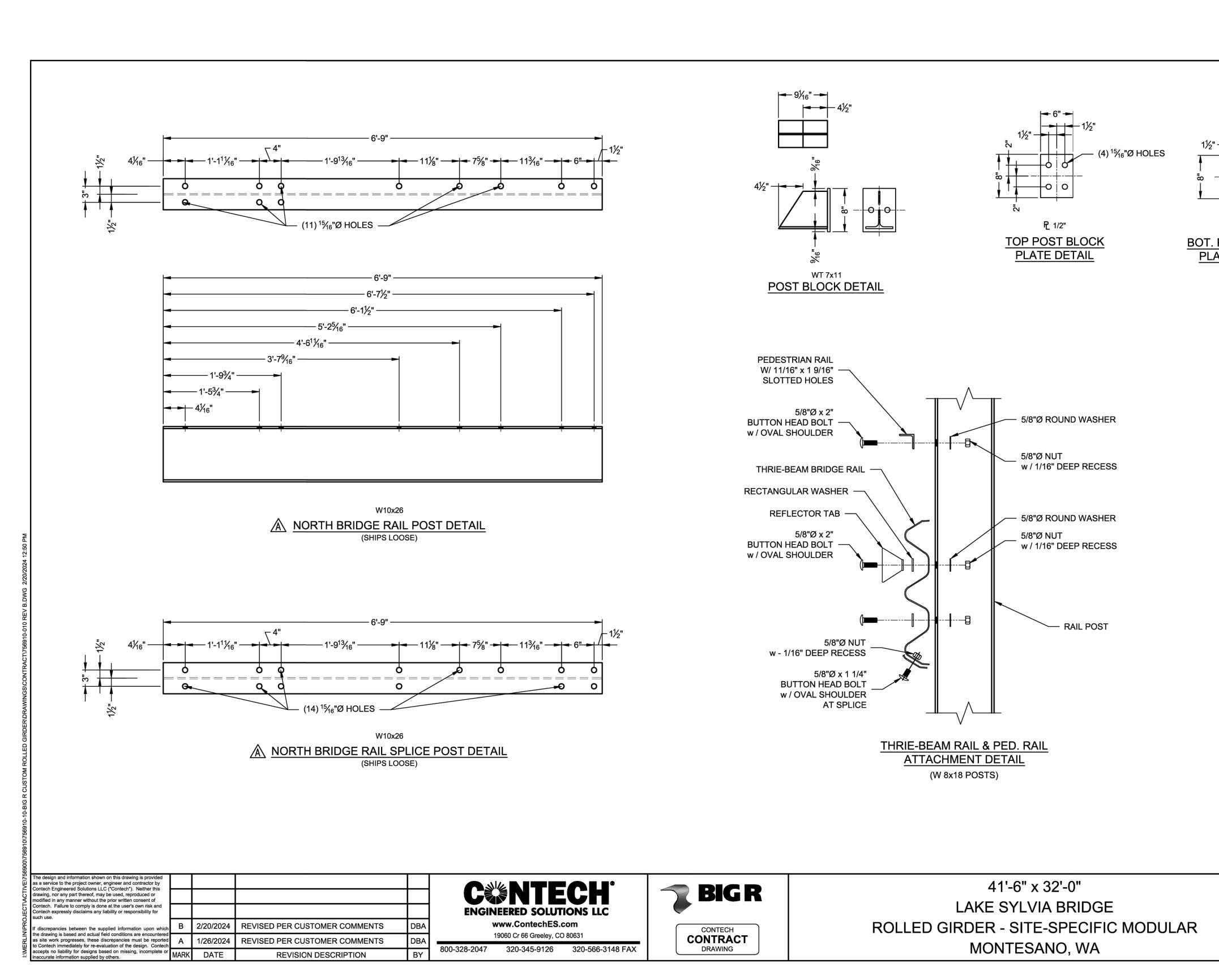
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SHEET 42 OF 49	PARKS FILE#



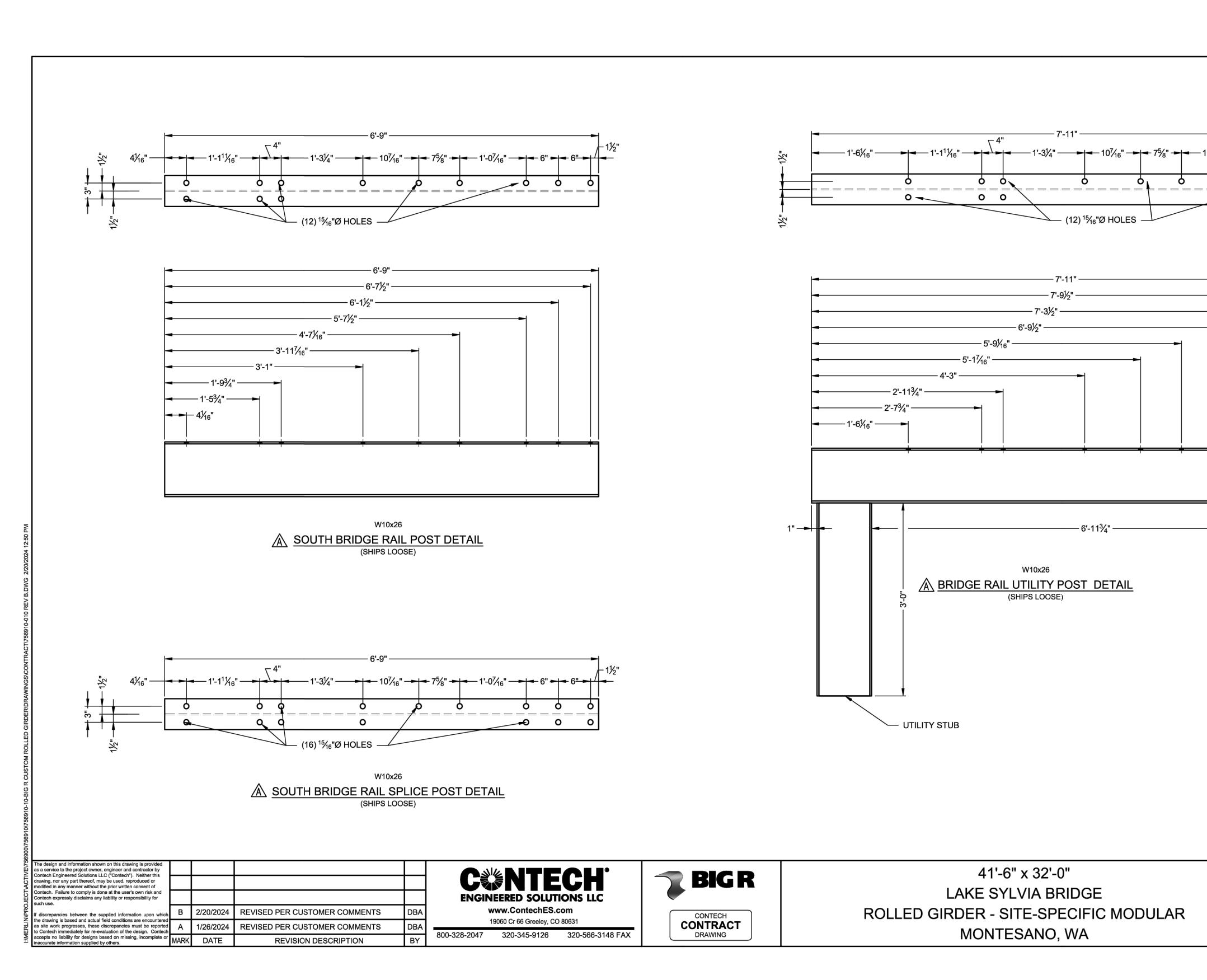
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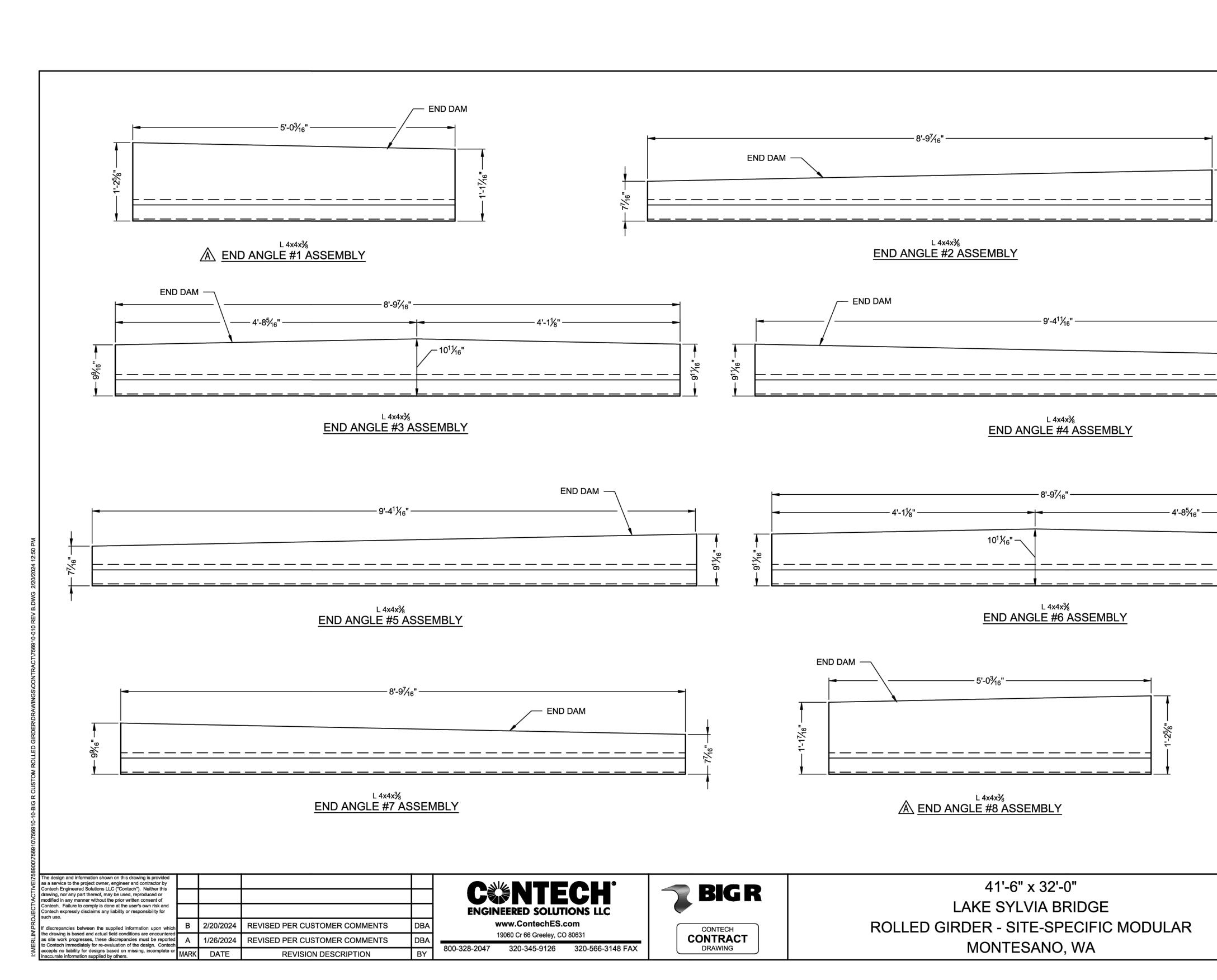
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SHEET 44 OF 49	PARKS FILE#			



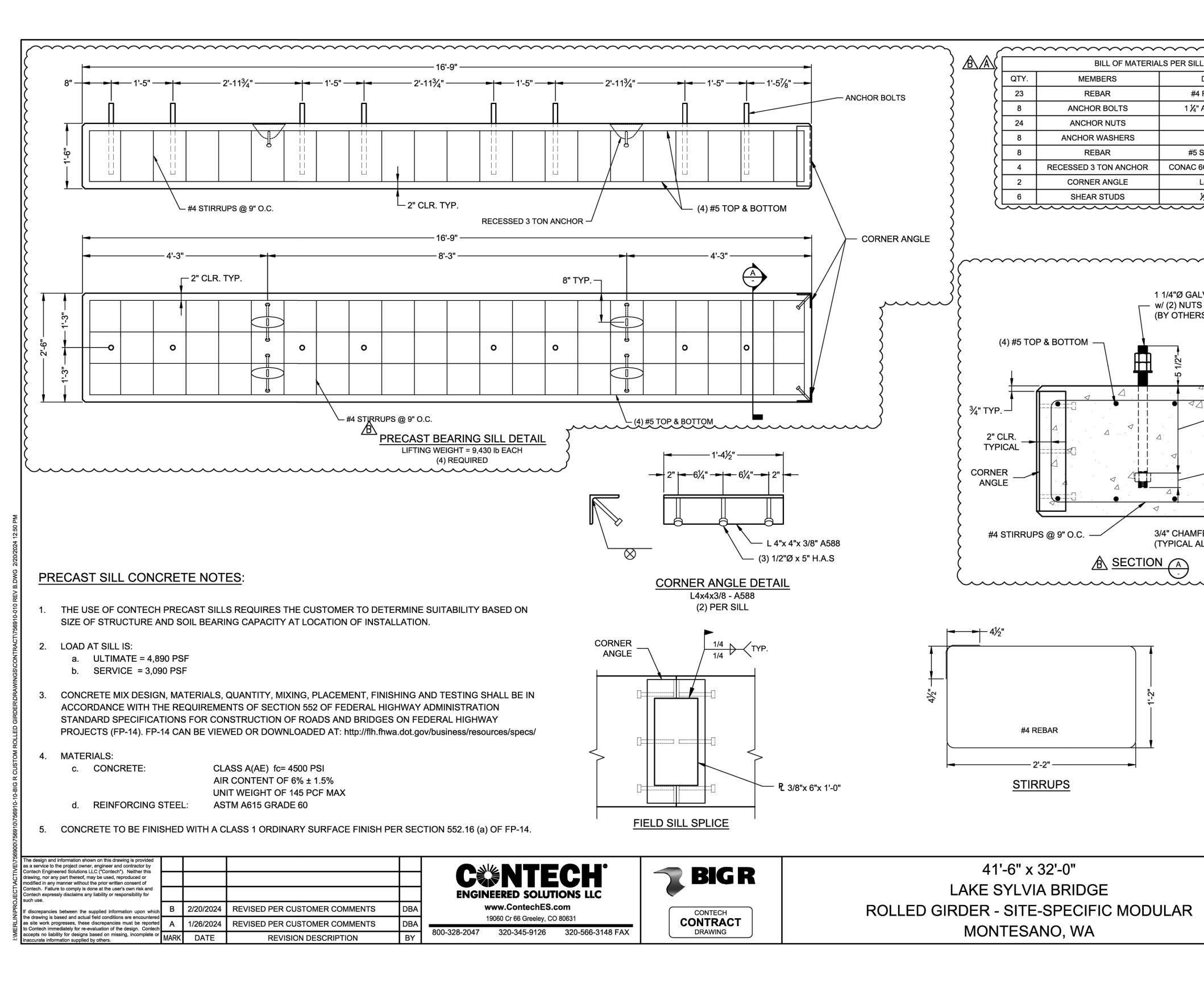
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SHEET 45 OF 49				
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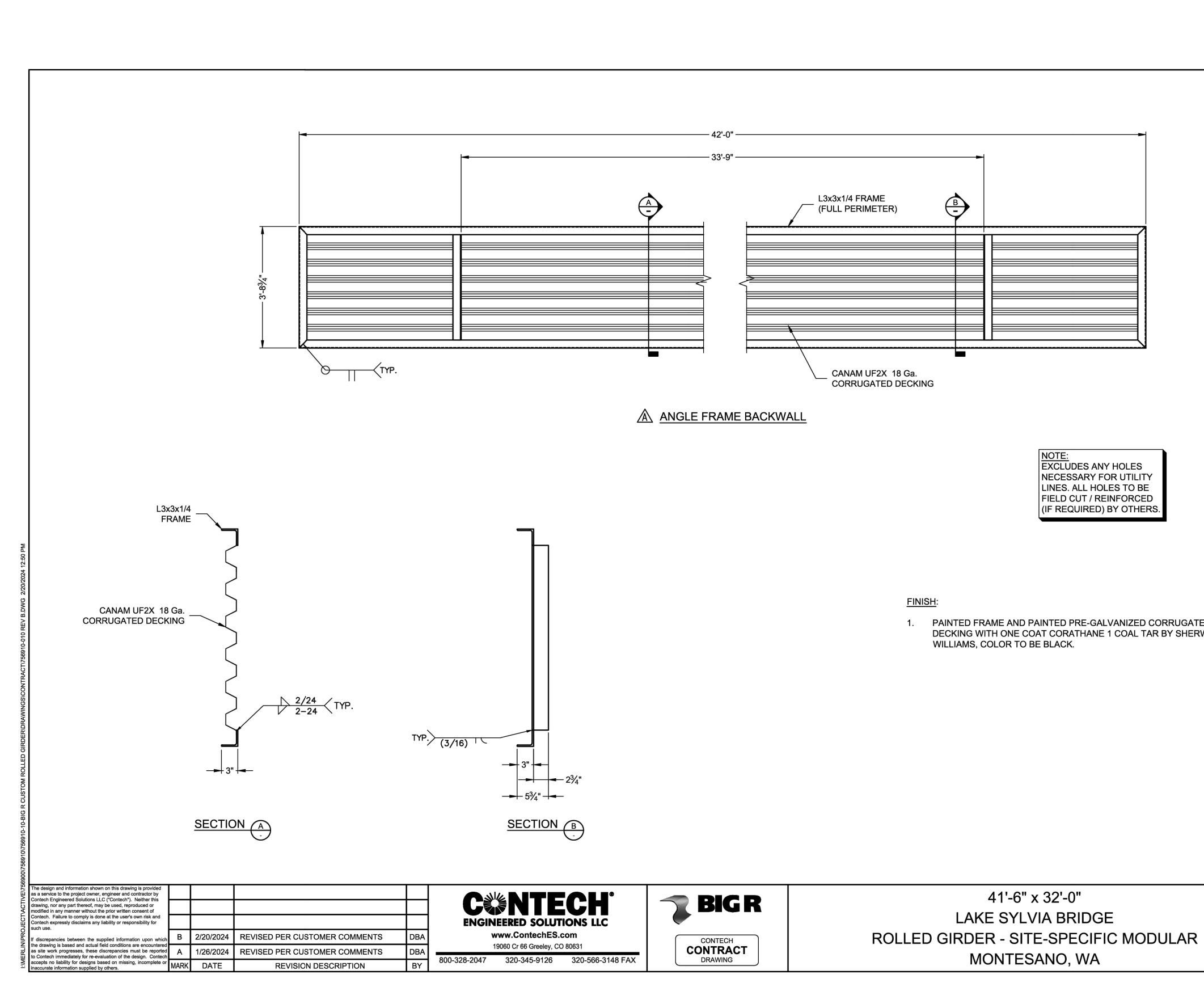
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SHEET 46 OF 49	PARKS FILE#			



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PROJECT No.: DATE: 756910 010 1/9/2024 DESIGNED: DRAWN: DBA JRJ	<u>CULVERT</u> <u>REPLACEMENT</u>
CHECKED: DBA SLJ SHEET NO.: 10 OF 12	<u>BRIDGE SHOP</u> <u>DRAWINGS</u> <u>S6.0</u>
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SHEET 47 OF 49	9 PARKS FILE#



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