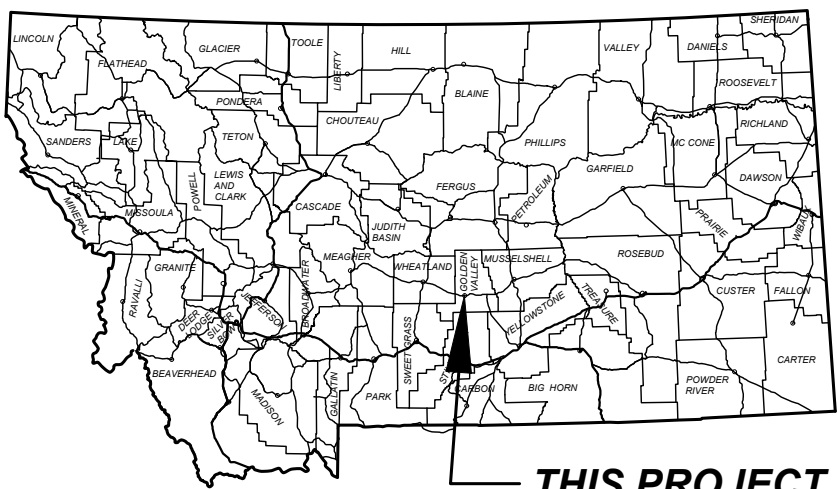


MONTANA DEPARTMENT OF TRANSPORTATION
FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
GOLDEN VALLEY COUNTY

LENGTH 10.2 MILES



S-238 DESIGN DATA

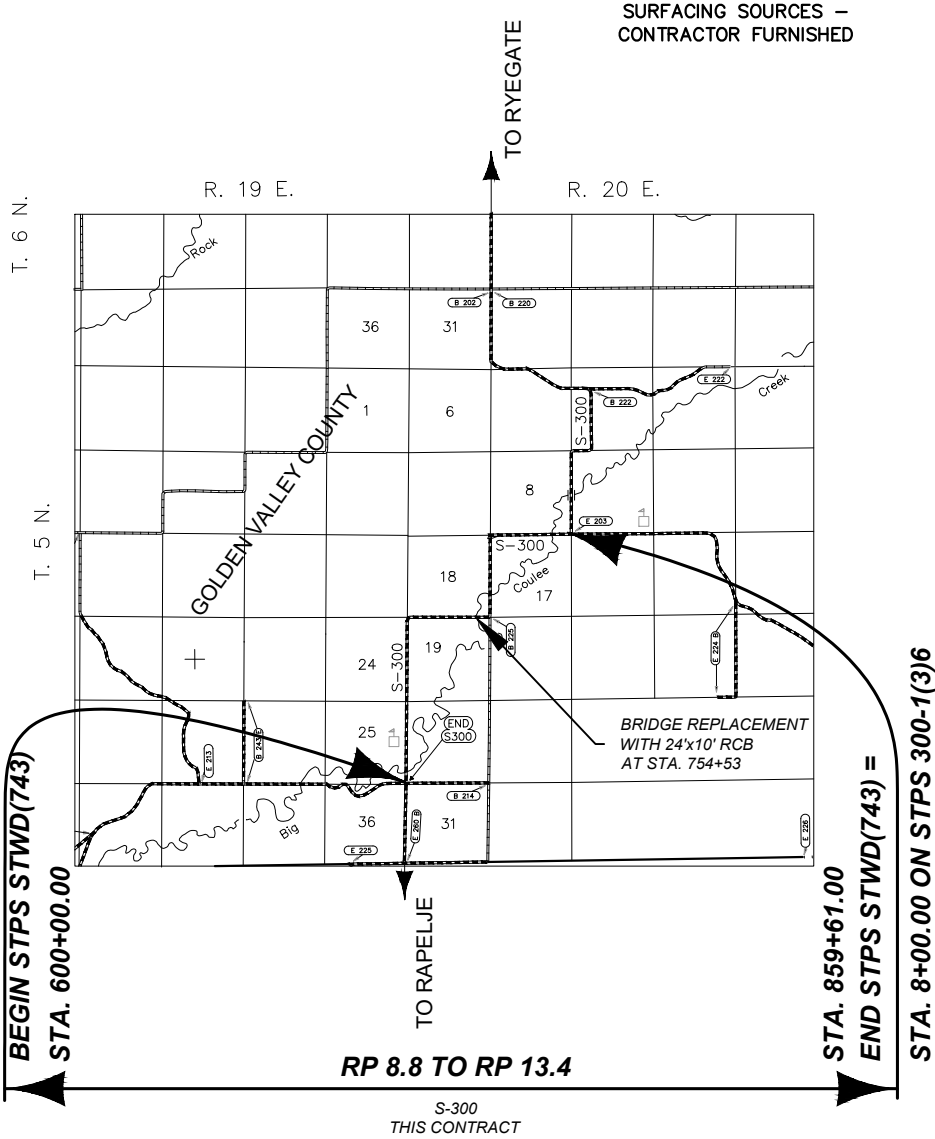
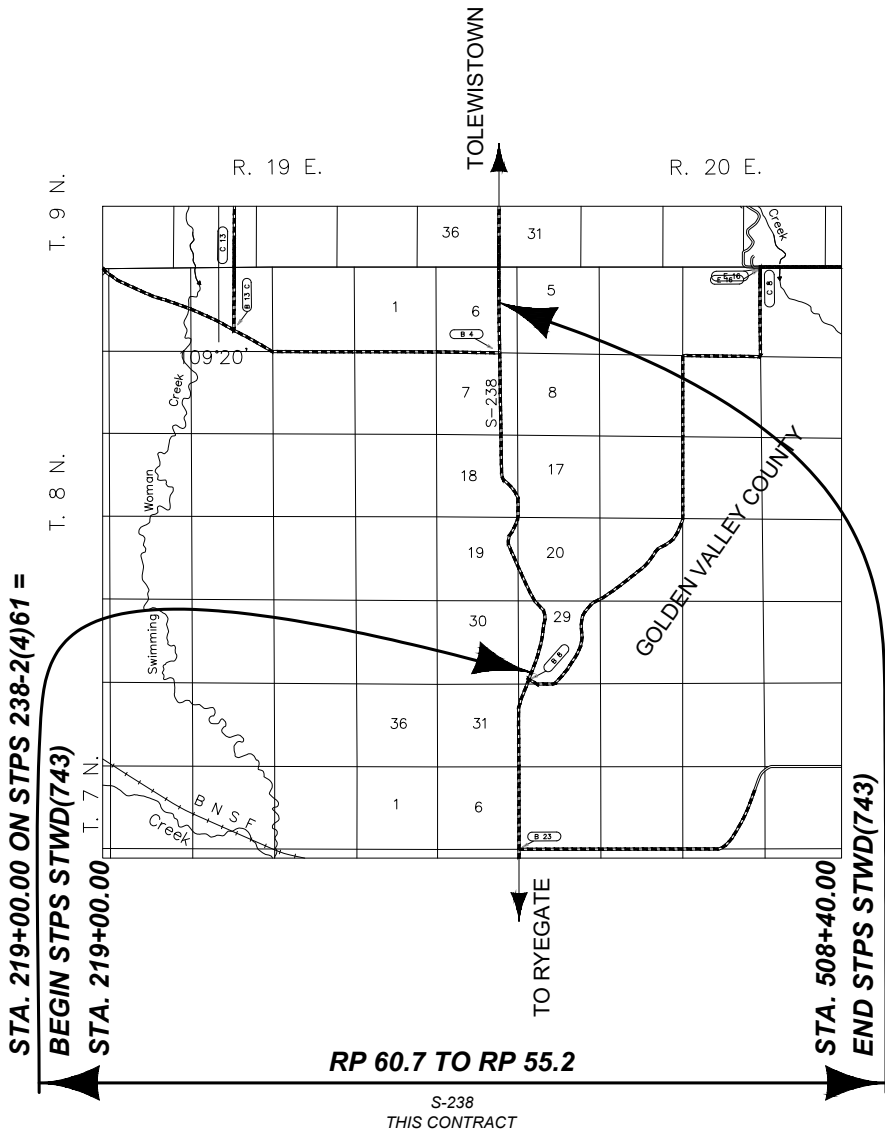
PRESENT 2025 A.D.T. = 40
LETTING 2025 A.D.T. = 40
DESIGN 2045 A.D.T. = 50
D.H.V. = 10
TRUCKS = 17.5%
V. = 40 MPH
18 KIP ESAL'S = 2 DAILY
ANNUAL GROWTH = 1.0%

S-300 DESIGN DATA

PRESENT 2025 A.D.T. = 60
LETTING 2025 A.D.T. = 60
DESIGN 2045 A.D.T. = 70
D.H.V. = 10
TRUCKS = 6.7%
V. = 40 MPH
18 KIP ESAL'S = 2 DAILY
ANNUAL GROWTH = 1.0%

ASSOCIATED PROJECT AGREEMENT NUMBERS

R/W	STPS STW-0(073)
I.C.	STPS STW-0(093)
P.E.	STPS STWD(742)



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY: _____
HIGHWAYS ENGINEER

DATE _____

DAVID HOLIEN
20186PE
PROFESSIONAL ENGINEER

SHEET NO.

1

TITLE SHEET

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
C. HOPKINS
1/8/2026

REVIEWED BY
K. SHUCK
1/8/2026

CHECKED BY
T. JOHNSON
1/8/2026

9800000RDTTL001.DWG

MONTANA
Department of Transportation

ROAD PLANS

3/23/2026 10:36 AM

TABLE OF CONTENTS

ROAD PLANS

TITLE SHEET

TABLE OF CONTENTS

NOTES

CONTROL DIAGRAM

TYPICAL SECTIONS

SUMMARIES

SURFACING

ADDITIONAL SURFACING

GRADING

SPECIAL BACKFILL

DETOUR

PERMANENT EROSION CONTROL

EQUIPMENT

CULVERTS

GUARDRAIL

CATTLEGUARD

FENCING

REVEGETATION

REMOVE STRUCTURE

DETAILS

S-238 PROJECT BEGIN/END

S-300 PROJECT BEGIN/END

EXISTING TEMPORARY DETOUR

HIGH TENSION GUARDRAIL AND RCB SURFACING

HYDRAULIC DATA SUMMARY

HYDRAULIC DETAILS

PLAN & PROFILE

SIGNING PLANS

SUMMARY

SPECIFICATIONS

DETAILS

PLANS

CROSS SECTIONS

MAINLINE

SHEET NO.

1

2

2-3

4

5

6-8

6

6

7

7

7

7

7

8

8

8

8

8

8

9-12

9

10

11

12

13

14-22

23-26

S1

S2-S7

S8

S9-S24

XS1-XS3

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT

CALCIUM CHLORIDE WEIGHT

DUSTPODS (POLYMER STABILIZATION)

= 3625 LBS. PER CUBIC YARD

= 1.85% OF AGGREGATE WEIGHT

= 1 lb PER 47 TONS OF

AGGREGATE

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER

NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES

AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS

PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

STATIONING

THE ROAD PLANS WERE STATIONED WITH AN ASSUMED BEGINNING STATION

218+00 AT RP 59.87 ON S-238 AND AND BEGINNING STATION 600+00 RP 13.35 ON

S-300 USING AN ELECTRONIC DISTANCE MEASURING INSTRUMENT. AS-BUILT PLANS

WERE NOT USED FOR STATIONING AND STATION INCREASE FROM SOUTH TO

NORTH. ANY DISCREPANCIES OF THE LOCATION OF FEATURES CALLED OUT IN THE

ROAD PLANS AND ACTUAL PHYSICAL LOCATIONS ARE TO BE RECONCILED BY THE

PROJECT MANAGER.

STATIONING RUNS OPPOSITE DIRECTION OF RPS FOR S-238.

SOILS INFORMATION

SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. THE

LOCATION OF GEOTECHNICAL BORINGS IS SHOWN ON THE PLAN

VIEW WITH THE FOLLOWING SYMBOL:

BORING NUMBER



(GEOTECHNICAL BORING)

WETLANDS

WETLANDS EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND

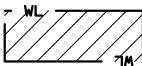
THE PROJECT LIMITS. WETLAND AREAS AND PERMANENT WETLAND IMPACT

AREAS WITHIN THE PROJECT LIMITS HAVE BEEN DELINEATED AND ARE

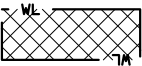
SHOWN ON THE PLANS. ANY ACTION IMPACTING WETLAND AREAS OUTSIDE

OF THE PERMANENT IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE

CONTRACTOR.



DELINEATED WETLAND AREAS



PERMANENT WETLAND IMPACTED AREAS

WETLAND DELINEATION TABLE					
WETLAND DESIGNATION	STATION		WELAND AREA (ACRES)		REMARKS
	FROM	TO	DELINEATED AREA	** IMPACTED AREA (PERM.)	
WL1a	319+12.00	319+25.00	0.006	0.006	Alkali Creek RT
WL1b	315+24.00	319+10.00	0.062	0.003	Alkali Creek RT
WL1c	319+19.00	319+19.00	0.006	0.001	Alkali Creek LT
WL2a	751+11.00	759+25.00	0.740	0.009	Big Coulee LT
WL2b	753+60.00	756+68.00	0.265	0.007	Big Coulee RT
	TOTAL		1.08	0.03	

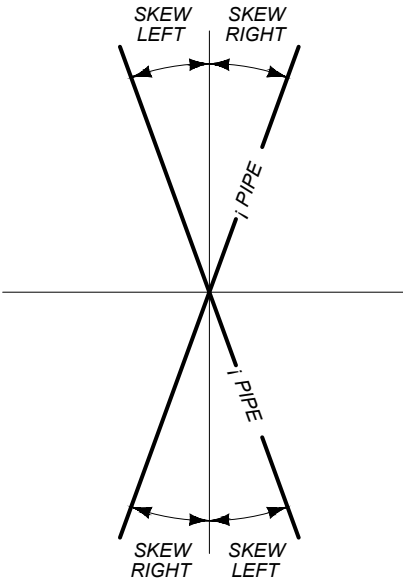
**AREA OF EXISTING WETLAND EXTENDS BEYOND PLAN LIMITS.

NOTES

CENTERLINE COORDINATE TABLE - S-238				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
219+00.00	BOA	790,661.3820	2,030,531.7300	
225+91.08	PC	791,302.4580	2,030,789.8240	
226+50.08	PT	791,356.8600	2,030,812.6640	
231+92.11	PC	791,853.4780	2,031,029.8350	
234+95.21	PT	792,145.0190	2,031,109.7650	
254+51.60	PC	794,081.9060	2,031,385.2740	
260+01.11	PT	794,606.5390	2,031,267.8320	
266+22.56	PC	795,125.7660	2,030,926.3560	
266+67.39	PT	795,162.4740	2,030,900.6320	
278+76.15	PC	796,131.4900	2,030,178.0550	
280+61.40	PT	796,291.9620	2,030,086.4190	
304+27.21	PC	798,473.7830	2,029,171.7170	
307+70.04	PT	798,809.4460	2,029,153.5230	
312+56.42	PC	799,275.6960	2,029,291.9900	
313+00.28	PT	799,318.0810	2,029,303.2570	
316+94.38	PC	799,701.7140	2,029,393.4740	
317+66.47	PT	799,771.0050	2,029,413.2780	
325+18.78	PC	800,483.7340	2,029,654.0870	
326+21.76	PT	800,583.2300	2,029,680.3500	
333+39.15	PC	801,287.6610	2,029,816.0610	
337+00.70	PT	801,625.1440	2,029,725.6980	
354+38.55	PC	802,939.0150	2,028,588.2230	
359+69.93	PT	803,403.5110	2,028,339.1790	
388+15.54	PC	806,145.4650	2,027,578.1150	
391+18.34	PT	806,445.4940	2,027,556.6150	
464+06.26	PC	813,674.8240	2,028,478.9010	
467+29.90	PT	813,997.7670	2,028,493.7610	
498+54.28	PC	817,120.2460	2,028,384.6530	
498+77.76	PT	817,143.7160	2,028,384.1950	
508+40.00	EOA	818,105.9390	2,028,379.2720	

CENTERLINE COORDINATE TABLE - S-300				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
600+00.00	BOA	691636.306	2024727.960	
704+88.07	PC	702124.373	2024717.389	
706+24.13	PT	702210.370	2024802.795	
748+96.96	PI	702197.043	2029075.602	
756+52.21	PC	702194.582	2029830.845	
758+03.48	PT	702290.843	2029926.975	
808+88.90	PC	707376.211	2029903.522	
810+20.68	PT	707446.890	2030004.315	
851+33.10	PC	707327.013	2034114.987	
859+61.46	EOA	707650.109	2034846.490	

SKUEW DIAGRAM



SHEET NO.

2

TABLE OF CONTENTS & NOTES

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

UPN

9800000

DESIGNED BY

C. HOPKINS

REVIEWED BY

K. SHUCK

CHECKED BY

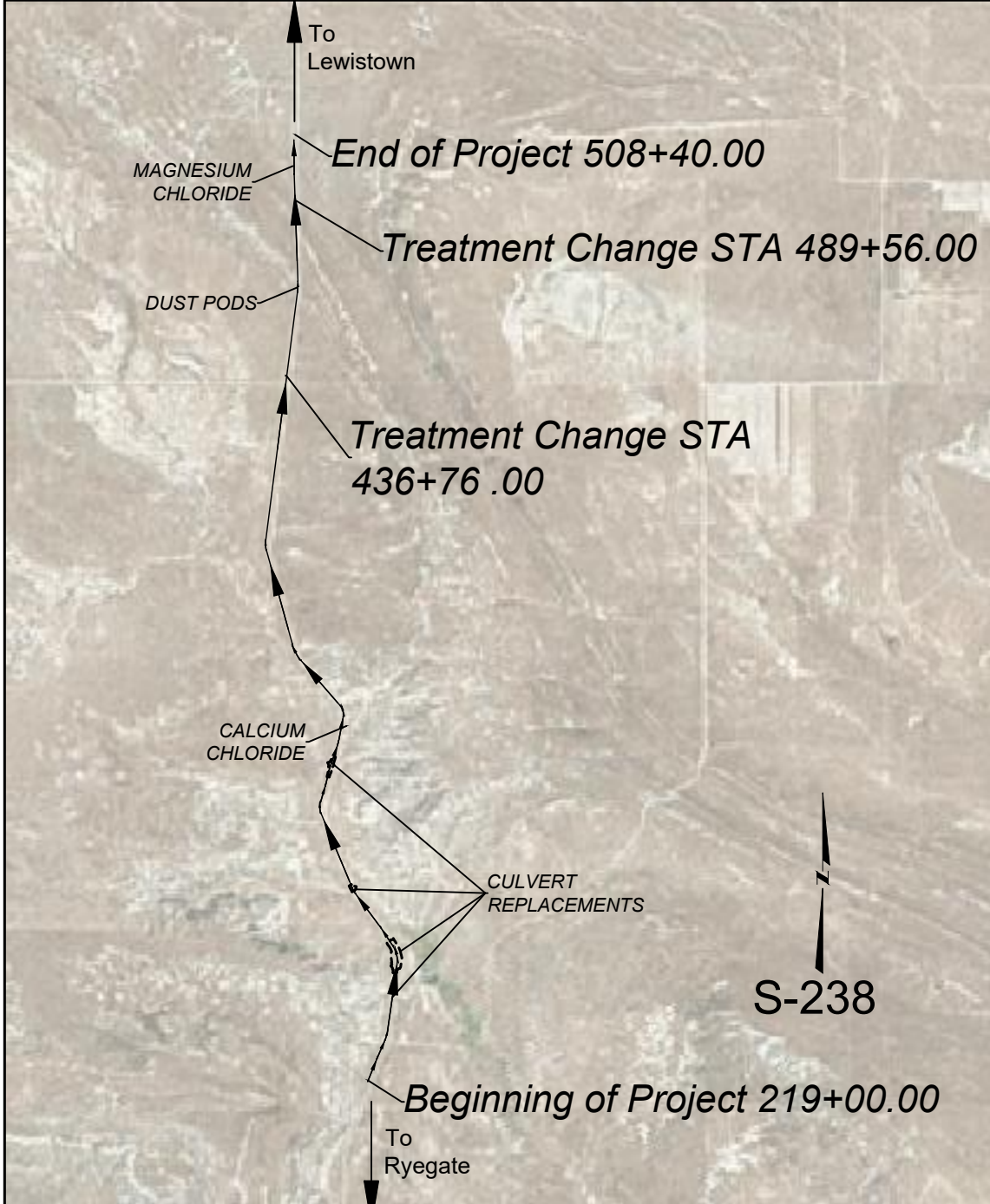
T. JOHNSON

9800000RDTTL001.DWG



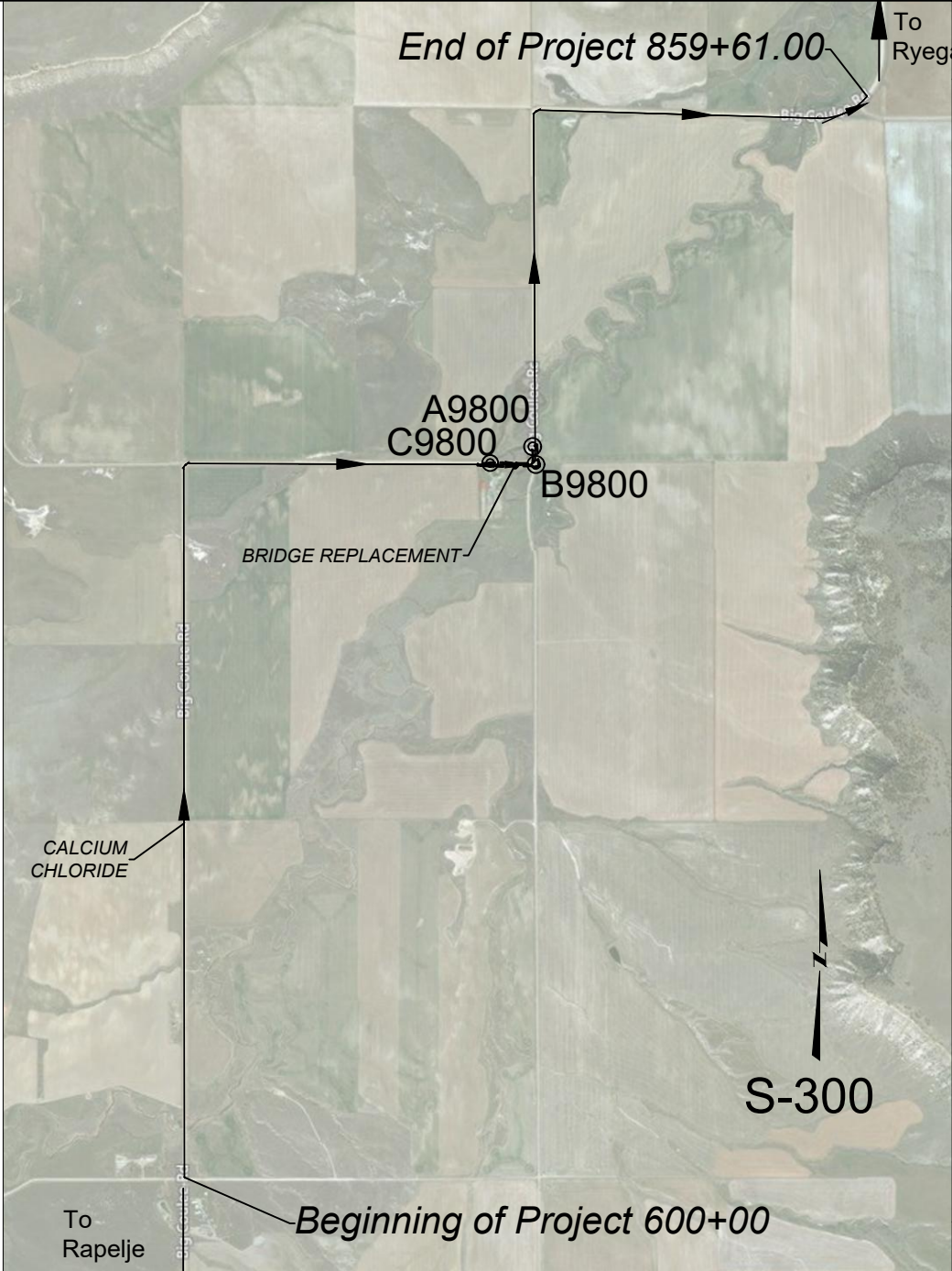
ROAD PLANS

3/23/2026 10:36 AM



NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011. NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.

DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.999313362.



CONTROL ABSTRACT				
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
A9800	702,458.95	2,029,895.73	3,777.72	SET MDT 2" CONTROL CAP ON 5/8" X 30" REBAR STAMPED "A9800" FLUSH WITH THE GROUND. THE MONUMENT IS ON MT SECONDARY 300 ON THE WEST SIDE ALONG A FIELD APPROACH 27' WEST OF THE CENTERLINE, 15' SOUTH OF GATE, 3.5' SOUTH OF H-BRACE AT MM 10.2.
B9800	702,195.57	2,029,937.53	3,768.76	SET MDT 2" CONTROL CAP ON 5/8" X 30" REBAR STAMPED "B9800" FLUSH WITH THE GROUND. THE MONUMENT IS ON MT SECONDARY 300 ON THE EAST SIDE AT 90 DEGREE TURN TO THE WEST IN ROAD 10' EAST OF THE INTERSECTION OF BIG COULEE AND RM ROAD AT MM 10.3.
C9800	702,218.68	2,029,261.91	3,779.17	SET MDT 2" CONTROL CAP ON 5/8" X 30" REBAR STAMPED "C9800" FLUSH WITH THE GROUND. THE MONUMENT IS ON MT SECONDARY 300 ON THE NORTH SIDE 21' NORTH OF CENTERLINE, 18' EAST OF FIELD APPROACH, 6.7' SOUTH F H-BRACE AT MM 10.5.

SHEET NO.
4

CONTROL DIAGRAM

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
C. HOPKINS
1/8/2026

REVIEWED BY
K. SHUCK
1/8/2026

CHECKED BY
T. JOHNSON
1/8/2026

98000000RDRV001.DWG

MONTANA
Department of Transportation

ROAD PLANS

3/6/2026 2:02 PM

219+00.00 TO 220+00.00 BEGIN CONNECTION SEE DETAIL

220+00.00 TO 508+39.00 TYP. NO. 1

508+39.00 TO 508+40.00 END CONNECTION SEE DETAIL

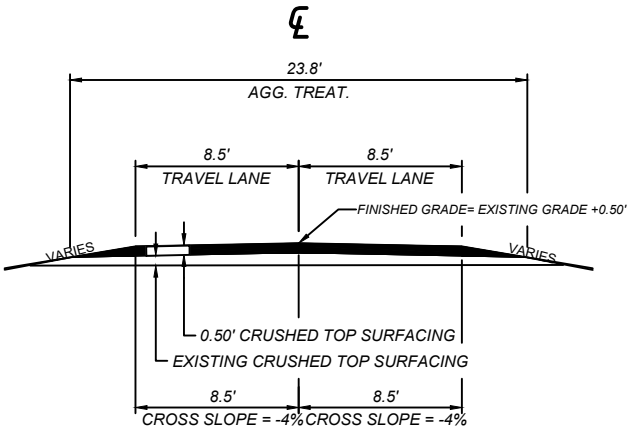
SHEET NO.

5

TYPICAL SECTION NO. 1

MAINLINE S-238

NOTES:
1) MATCH EXISTING TOP WIDTH FOR LENGTH OF THE PROJECT.
2) ENSURE WINDROWS ARE BLENDED WITH EXISTING INSLOPES. INSLOPES MAY BE STEEPENED WHERE NECESSARY.
3) SEE SUMMARY SHEET FOR AGGREGATE TREATMENT TYPES AND LOCATIONS.



QUANTITIES			
UNIT	AGGREGATE	UNIT	AGG. TREATMENT*
	CRUSHED TOP SURFACING		
AREA square feet	10.20	square yards PER STATION	264
cubic yards PER STATION	37.8	tons PER STATION	
tons PER STATION	68.5	gals. PER STATION	
square yards PER STATION			

*DIFFERENT TYPES OF SURFACE TREATMENT FOR TYPICAL 1, SEE SUMMARY SHEETS.

600+00.00 TO 601+00.00 BEGIN CONNECTION SEE DETAIL

601+00.00 TO 859+60.00 BE TYP. NO. 2

859+60.00 TO 859+61.00 BE END CONNECTION SEE DETAIL

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

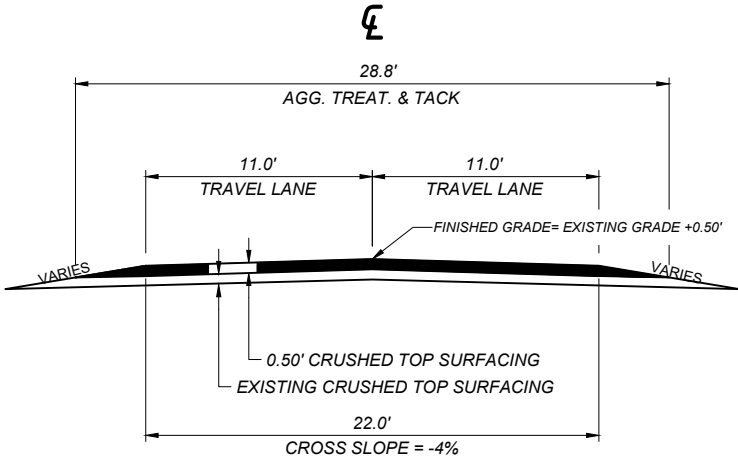
UPN

9800000

TYPICAL SECTION NO. 2

MAINLINE S-300

NOTES:
1) MATCH EXISTING TOP WIDTH FOR LENGTH OF THE PROJECT.
2) ENSURE WINDROWS ARE BLENDED WITH EXISTING INSLOPES. INSLOPES MAY BE STEEPENED WHERE NECESSARY.



QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	CRUSHED TOP SURFACING		MISC. B ITEM (CALCIUM CHLORIDE)
AREA square feet	12.70	LBS. PER STATION	14,484
cubic yards PER STATION	47.0	tons PER STATION	
tons PER STATION	85.2	gals. PER STATION	
square yards PER STATION			

DESIGNED BY

C. HOPKINS

1/8/2026

REVIEWED BY

K. SHUCK

1/8/2026

CHECKED BY

T. JOHNSON

1/8/2026

9800000RDTYP001.DWG

SURFACING											
STATION		linear feet				FOR	AGGREGATE				REMARKS
		GROSS	NET	+	-		tons	LBS.	sq. yards	LBS.	
							CRUSHED TOP SURFACING 3B	MISC ITEMS A. (POLYMER STABILIZATION)	AGGREGATE TREATMENT (MAGNESIUM CHLORIDE)	MISC. ITEMS B. (CALCIUM CHLORIDE)	
FROM	TO										
S-238											
219+00.00	220+00.00	100.00	100.00			BEGIN CONNECTION	34			1,267	
220+00.00	266+48.63	4,648.63	4,648.63				3,184			117,808	RP 60.7
266+48.63	266+56.63	8.00			8.00	CATTLE GUARD					
266+56.63	382+89.51	11,632.88	11,632.88				7,969			294,853	
382+89.51	382+97.51	8.00			8.00	CATTLE GUARD					
382+97.51	436+68.26	5,370.75	5,370.75				3,679			136,123	
436+68.26	436+76.26	8.00			8.00	CATTLE GUARD					
436+76.26	489+56.00	5,279.74	5,279.74				3,617	77			RP 55.6 AGGREGATE TREATMENT TYPE CHANGE
489+56.00	507+40.00	1,784.00	1,784.00				1,222		4,710		RP 55.2
507+40.00	508+40.00	100.00	100.00			END CONNECTION	34		264		TYP. NO. 1
SUBTOTAL		28,940.00	28,916.00	~	24.00		19,739	77	4,974	550,051	
S-300											
600+00.00	601+00.00	100.00	100.00			BEGIN CONNECTION	43			1,591	
601+00.00	858+61.00	25,761.00	25,761.00				21,948			812,076	TYP. NO. 2
858+61.00	859+61.00	100.00	100.00			END CONNECTION	43			1,591	
SUBTOTAL		25,961.00	25,961.00	~	~		22,034	~	~	815,258	
						ADDITIONAL SURFACING	1,975			73,078	
TOTAL		54,901.00	54,877.00	~	24.00		43,748	77	4,974	1,438,387	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)											
STATION		linear feet				FOR	AGGREGATE				REMARKS
		GROSS	NET	+	-		tons	LBS	sq. yards	LBS	
							CRUSHED TOP SURFACING 3B	MISC ITEMS A. (POLYMER STABILIZATION)	AGGREGATE TREATMENT (MAGNESIUM CHLORIDE)	MISC ITEMS B. (CALCIUM CHLORIDE)	
FROM	TO										
						PUBLIC APPROACHES (3)	491			18,185	
						PRIVATE APPROCHES (6)	554			20,497	
						FARM FIELD APPROACHES (20)	893			33,035	
						RCB ADDITIONAL GRAVEL	37			1,360	ADDITIONAL QUANTITY FROM DETAIL ON RCB
SUBTOTAL		~	~	~	~		1,975	~	~	73,078	

SHEET NO.
6

SUMMARY SHEET

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
C. HOPKINS

1/8/2026

REVIEWED BY
K. SHUCK

1/8/2026

CHECKED BY
T. JOHNSON

1/8/2026

9800000RDSUM001.DWG

MONTANA
Department of Transportation

ROAD PLANS

3/19/2026 2:47 PM

GRADING						
STATION		cu. yards			REMARKS	
		UNCL. EXC.		EMB. IN PLACE		TOPSOIL AND SALVAGING
FROM	TO					
247+25			93	93		CULVERT REPLACEMENT
255+68	259+62.00	239	239	2	263	GRADING FOR DITCH DRAINAGE
255+68	259+62.00		26	26		CULVERT REPLACEMENT AND GRADING FOR DRAINAGE
280+80			454	431	88	CULVERT REPLACEMENT AND GRADING FOR DRAINAGE
319+21			38	140	317	CULVERT REPLACEMENT AND GRADING FOR DRAINAGE
754+38	754+62		1,285	804	113	BOX CULVERT EXCAVATION
TOTAL		239	# 2,136	# 1,497	781	

FOR INFORMATION ONLY

SPECIAL BACKFILL				
STATION		cu. yards	sq. yards	REMARKS
		SPECIAL BACKFILL	GEOTEXT. TYPE C.	
FROM	TO		HIGH SURV.	
754+53.00		401	204	FOR RCB INSTALLATION
TOTAL		401	204	

EQUIPMENT				
STATION		hours		REMARKS
		MOTOR GRADER	MISC. EQUIPMENT	
FROM	TO			
219+00	508+40	20		APPROACH SHAPING LT. AND RT.
			20	SURFACE PREP WORK, PRIOR TO CTS LAYDOWN
600+00	859+61	20		APPROACH/DETOUR SHAPING LT. AND RT.
			18	SURFACE PREP WORK, PRIOR TO CTS LAYDOWN
TOTAL		40	38	


ALL EQUIPMENT REQUIRED FOR PREP. WORK INCLUDED IN COST OF MISC. EQUIPMENT

DETOUR *					
STATION		lump sum		REMARKS	
		MAINTAIN & REMOVE	DETOUR		
FROM	TO				
750+60	771+81			1	
TOTAL				1	

* SEE DETAIL

PERMANENT EROSION CONTROL *									
STATION		LUMP SUM	CUBIC YARDS			sq. yards		sq. yards	REMARKS
		BIOENGINEERED BANK	CULVERT INFILL	RANDOM RIPRAP		GEOTEXTILE	EROSION CONTROL BLANKET	RIPRAP REVEGETATION	
						PERM. EROS. CNTRL.			
						CL. 1 ANCILLARY ARMOR	CL. 2		
FROM	TO								
247+25.00				5		16			RIPRAP APRON RT.
256+10.00							125		EROSION CONTROL LT.
280+81.00					39	70	125		RIPRAP BASIN RT.
319+19.00					70	115	80	56	RIPRAP BASIN RT.
754+53.00		1	117						RCB INFILL
TOTAL		1	117	5	109	201	330	56	

* SEE DETAILS



MONTANA

Department of Transportation

DESIGNED BY

C. HOPKINS

1/8/2026

REVIEWED BY

K. SHUCK

1/8/2026

CHECKED BY

T. JOHNSON

1/8/2026

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

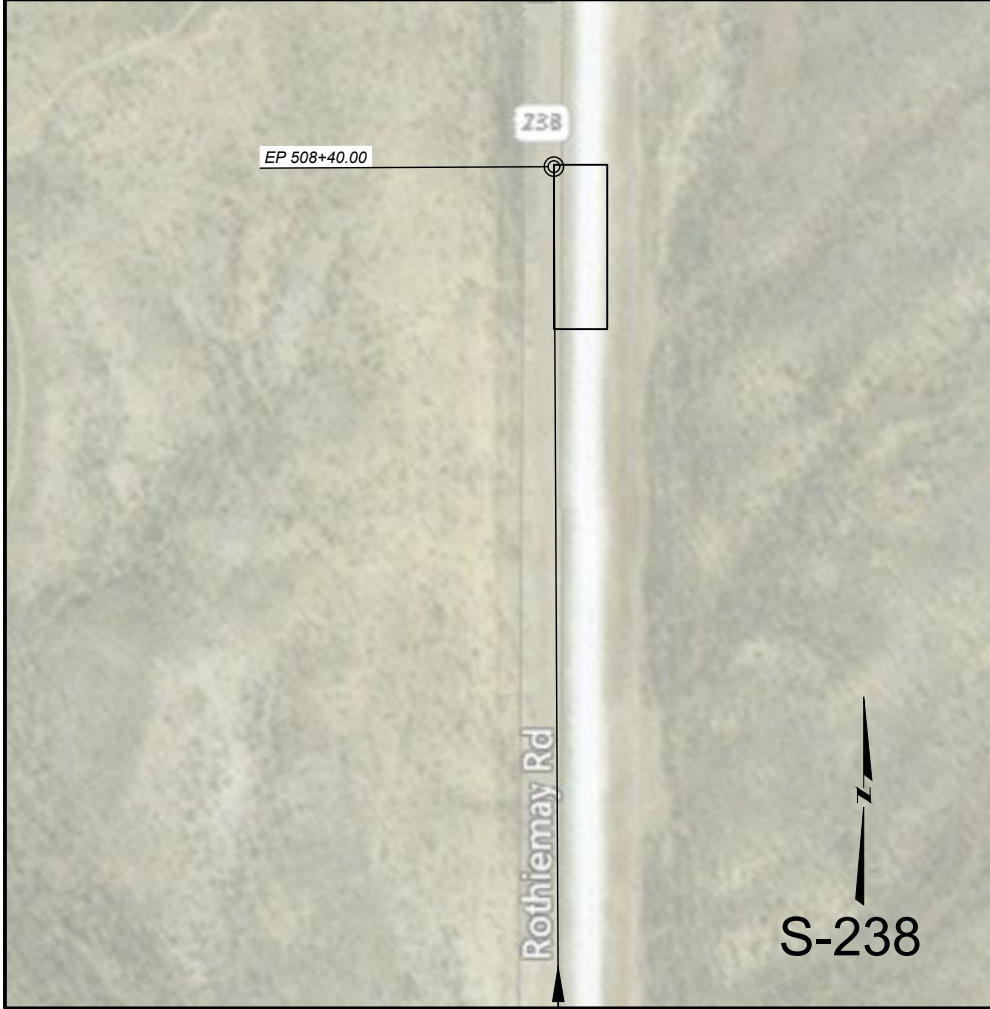
UPN

9800000RD\SUN001.DWG

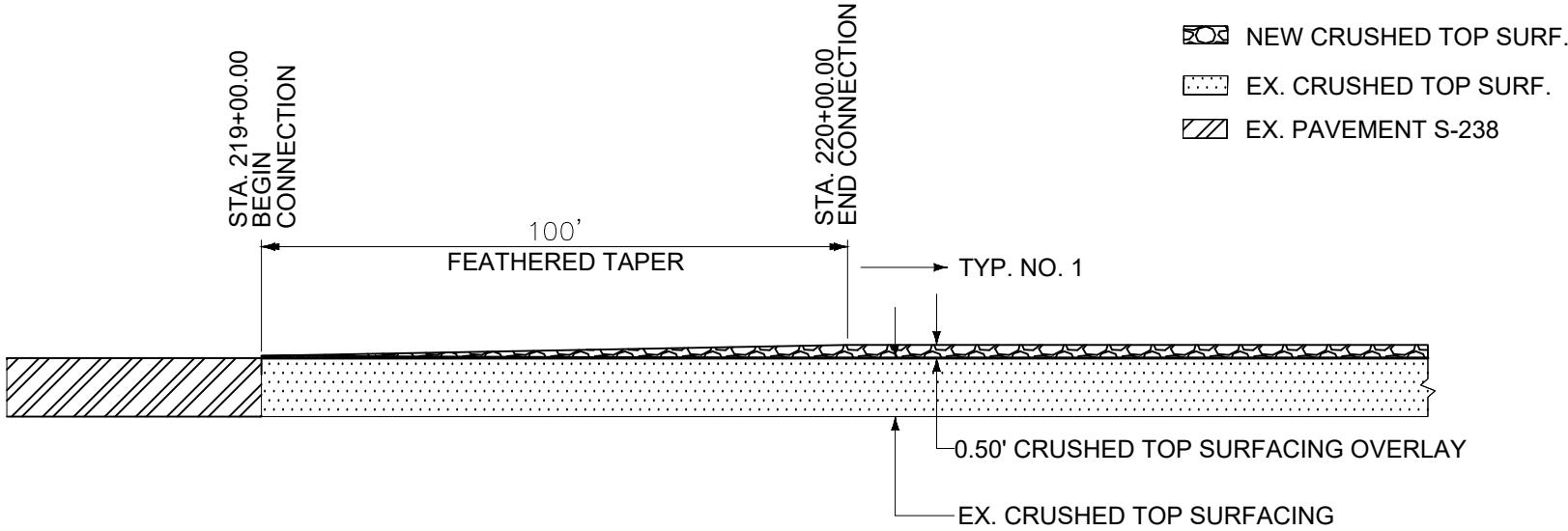
3/19/2026 2:47 PM

ROAD PLANS

98000000

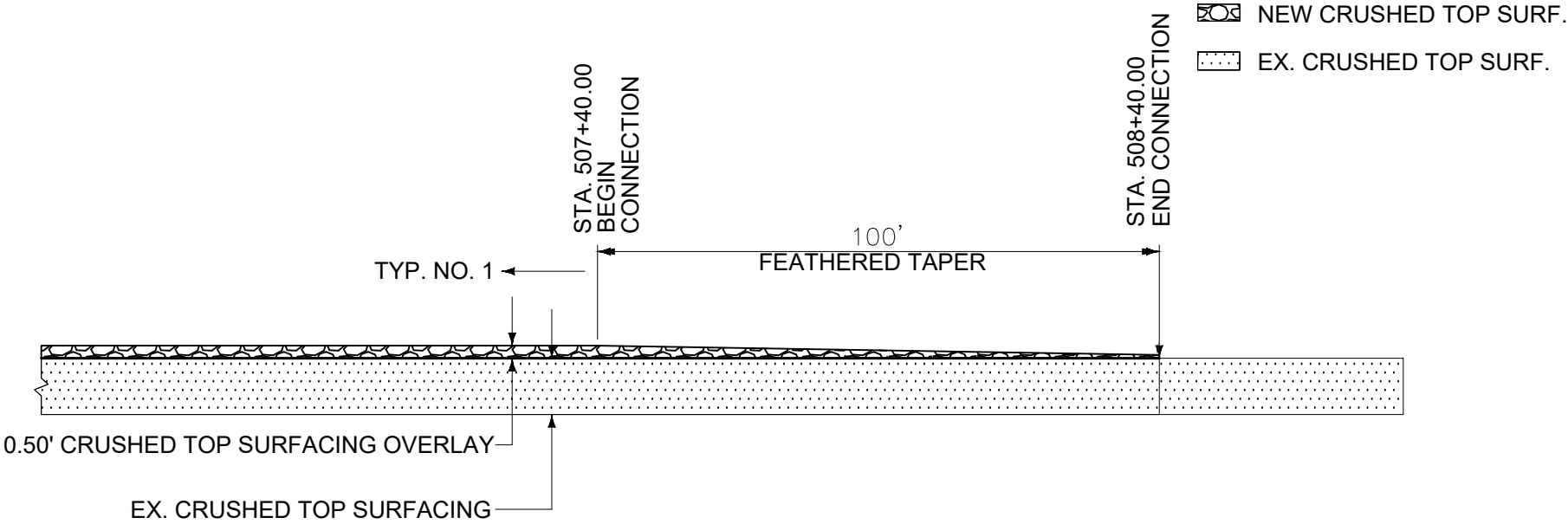


S-238 PROJECT BEGIN CONNECTION



NOTE: SCARIFY SURFACE TO BLEND IN NEW MATERIAL FOR THE TAPER

S-238 PROJECT END CONNECTION



SHEET NO.

9

S-238 BEING AND END CONNECTIONS

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
C. HOPKINS
1/8/2026

REVIEWED BY
K. SHUCK
1/8/2026

CHECKED BY
T. JOHNSON
1/8/2026

9800000RDEET001.DWG

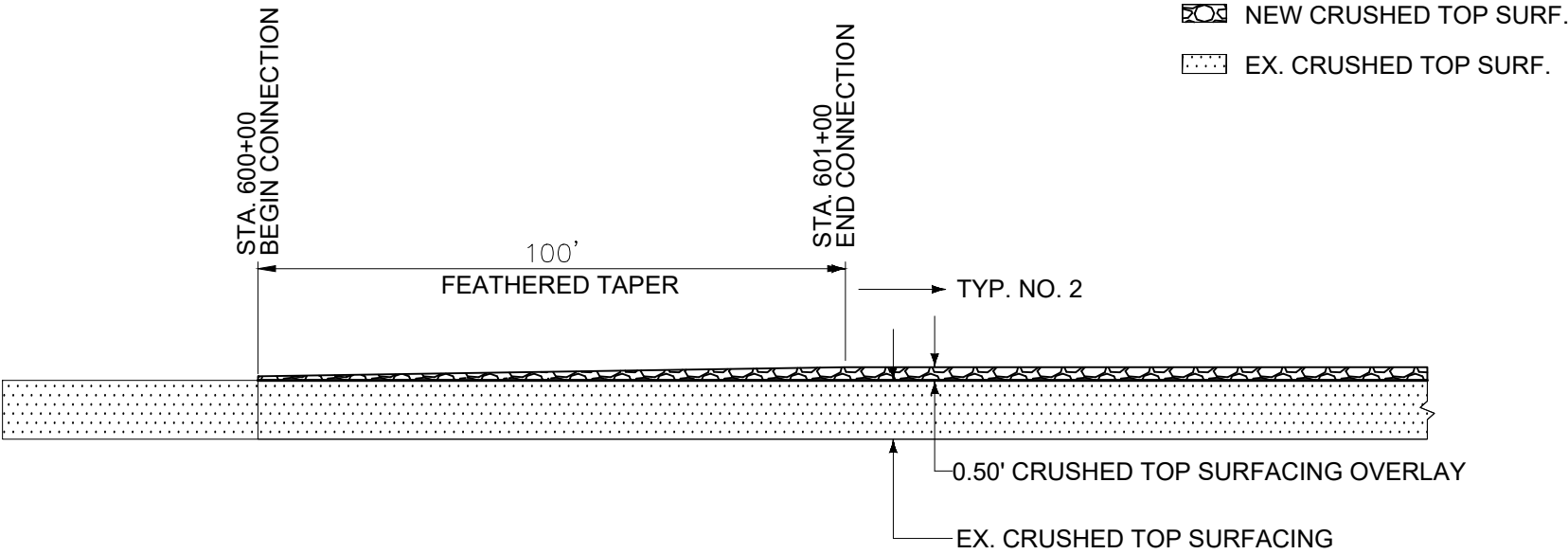


ROAD PLANS

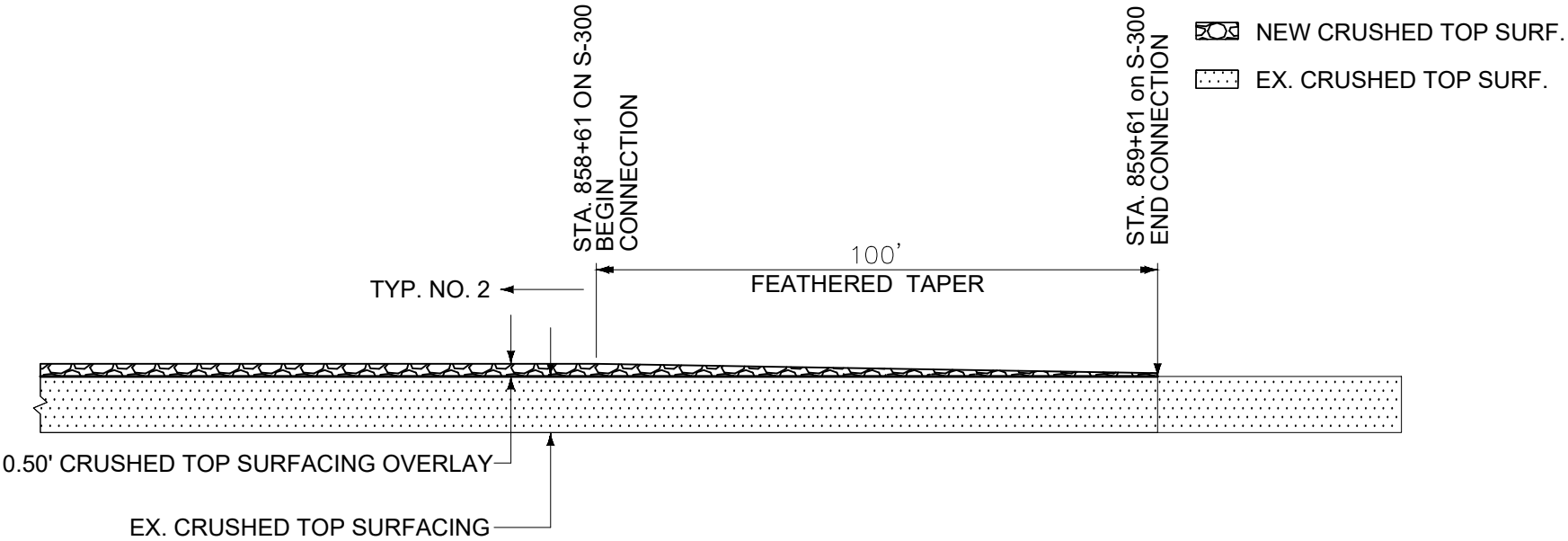
3/26/2026 11:56 AM



S-300 PROJECT BEGIN CONNECTION




S-300 PROJECT END CONNECTION



EXISTING TEMPORARY DETOUR



- NOTES:
- 1. DETOUR IS ALREADY CONSTRUCTED AND IS BEING USED.
 - 2. DETOUR ALIGNMENT IS A BEST FIT FOR THE EXISTING CONDITION
 - 3. CONTRACTOR WILL BE REQUIRED TO REGRADE EXISTING MATERIAL PRIOR TO BOX CULVERT INSTALLATION. HOURS ARE INCLUDED IN EQUIPMENT SUMMARY FRAME.
 - 4. EXISTING UTILITIES ARE ALONG THE DETOUR ALIGNMENT AND ARE NOT TO BE DISTURBED
 - 5. DETOUR RECLAMATION WILL BE COMPLETED AFTER THE RCB IS OPEN. RETURN DETOUR AREA TO BE RETURNED TO CLOSE TO PRE-DETOUR CONDITIONS. EPM AND CONTRACTOR WILL WORK WITH LANDOWNER TO CONFIRM COMPLETION OF REMOVE DETOUR.

SHEET NO. 11		EXISTING TEMPORARY DETOUR	
 ROAD PLANS	DESIGNED BY C. HOPKINS		PROJECT NAME S-238/S-300 - RYEGATE
	REVIEWED BY K. SHUCK		COUNTY GOLDEN VALLEY
	CHECKED BY T. JOHNSON		PROJECT ID STPS STWD(743)
	3/26/2026 11:56 AM		UPN 98000000

HIGH TENSION
GUARDRAIL AND RCB
SURFACING DETAILS

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
98000000

DESIGNED BY
C. HOPKINS

1/8/2026

REVIEWED BY
K. SHUCK

1/8/2026

CHECKED BY
T. JOHNSON

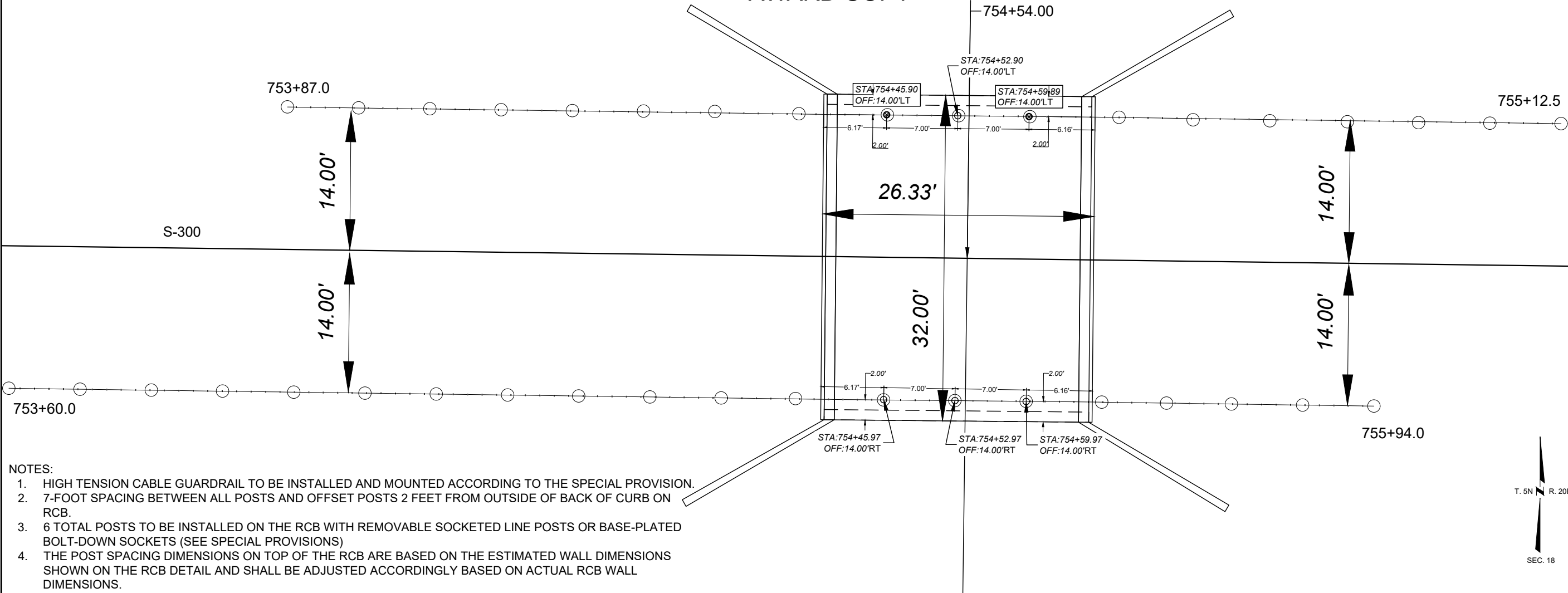
1/8/2026

98000000RDET002.DWG



ROAD PLANS

4/27/2026 1:52 PM

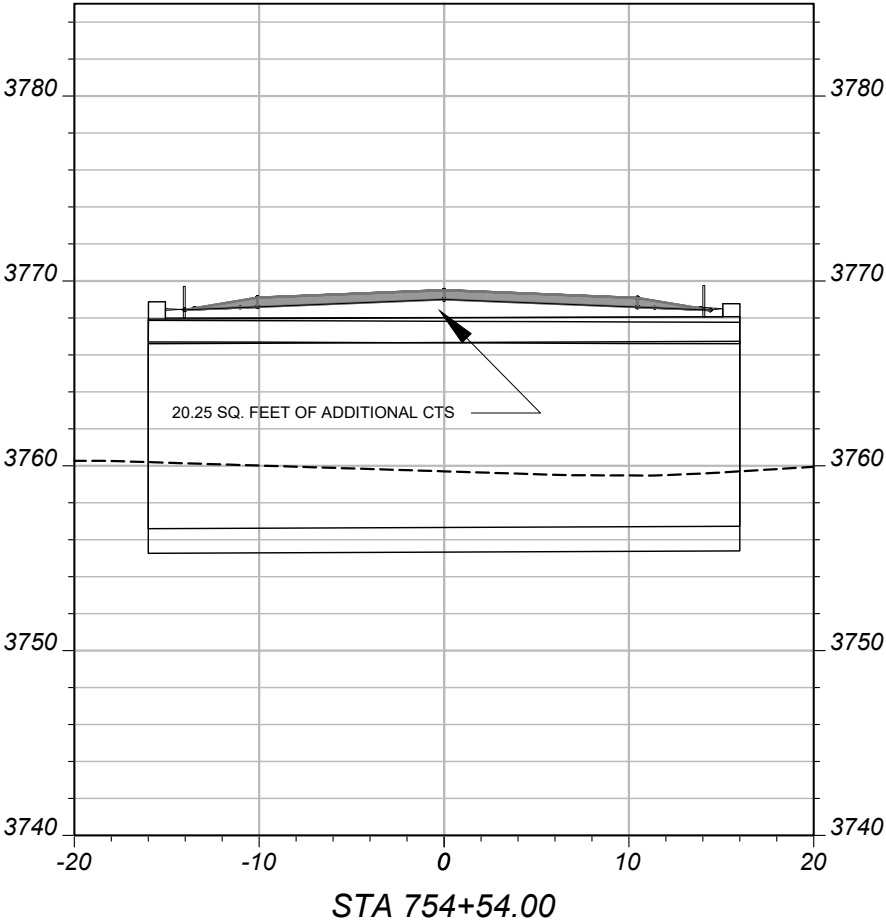


- NOTES:
1. HIGH TENSION CABLE GUARDRAIL TO BE INSTALLED AND MOUNTED ACCORDING TO THE SPECIAL PROVISION.
 2. 7-FOOT SPACING BETWEEN ALL POSTS AND OFFSET POSTS 2 FEET FROM OUTSIDE OF BACK OF CURB ON RCB.
 3. 6 TOTAL POSTS TO BE INSTALLED ON THE RCB WITH REMOVABLE SOCKETED LINE POSTS OR BASE-PLATED BOLT-DOWN SOCKETS (SEE SPECIAL PROVISIONS)
 4. THE POST SPACING DIMENSIONS ON TOP OF THE RCB ARE BASED ON THE ESTIMATED WALL DIMENSIONS SHOWN ON THE RCB DETAIL AND SHALL BE ADJUSTED ACCORDINGLY BASED ON ACTUAL RCB WALL DIMENSIONS.

- NOTES:
1. NEED MINIMUM 1-FOOT OF COVER OVER BOX CULVERT.
 2. ADDITIONAL CRUSHED TOP SURFACING WAS MEASURED ON CAD AND IS INCLUDED IN THE ADDITIONAL SURFACING SUMMARY FRAME.

STATION		CRUSHED TOP SURFACING (CY)
754+39.76	754+66.43	20

QUANTITY SHOWN IN ADDITIONAL SURFACING FRAME




HYDRAULIC DATA SUMMARY

HYDRAULIC DATA SUMMARY *

STATION	STREAM NAME (IF NAMED)	DRAINAGE AREA (mi²)	SIZE/TYPE STRUCTURE ① ② ⑤	DESIGN FLOOD			BASE FLOOD (1%)		OVERTOPPING FLOOD ③ ④			REMARKS (FLOOD OF RECORD, Qp(max), etc.) ⑥
				MAGNITUDE (cfs)	FREQUENCY (%)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	APPROX. FREQUENCY (%)	H.W. ELEV. (ft)	
S-238 280+81	UNNAMED	0.94	48" RCP TO 60" RCP WITH ENERGY DISSIPATION RINGS	116.3	10	3922.91	335.1	3927.46	169.88	5	3926.77	SAG
S-238 319+19	ALKALI CREEK	17	60" RCP TO 72" RCP WITH ENERGY DISSIPATION RINGS	339.00	10	3938.87	1,360.0	3940.06	251.14	14	3938.62	NUMBERS REFLECT THE COMBINED MODEL WITH THE 48" CMP 50' TO THE SOUTH; SAG
S-300 754+53	BIG COULEE CREEK	144	24' X 10' RCB	889	10	3766.53	2,150	3768.83	1,183.6	6	3767.40	OVERTOPPING POINT AT STA. 755+63

- NOTES:
* H.W. ELEVATIONS SHOWN ARE BASED UPON PEAK FLOW ANALYSIS UNLESS NOTED IN REMARKS COLUMN.
ADDITIONAL GUIDANCE ON THE HYDRAULIC DATA SUMMARY SHEET CAN BE FOUND IN SECTION 11.8.2 OF THE HYDRAULICS MANUAL.
- ① STRUCTURE SIZE OR TYPE AND RELATED HYDRAULIC DATA MAY NOT REFLECT CHANGES MADE DUE TO R/W OR OTHER CONSIDERATIONS (I.E. STOCKPASS ADDED, STRUCTURE SIZE OR TYPE CHANGED, ROAD GRADE CHANGED DURING CONSTRUCTION, ETC.)
- ② BRIDGE TOP LENGTH AND NUMBER OF SPANS OR BASE BID CULVERT SIZE AND SHAPE.
- ③ OVERTOPPING IS DEFINED AS FLOW OVER THE ROAD, FLOW THROUGH A SIGNIFICANT RELIEF STRUCTURE OR FLOW OVER THE BASIN DIVIDE WHICHEVER IS LOWER.
- ④ FOR THOSE CROSSINGS NOTED BY Qp(max) IN THE REMARKS COLUMN, OVERTOPPING DOES NOT OCCUR THROUGH THE Qp(max) EVENT. Qp(max) IS THE 200 YEAR EVENT FOR CULVERTS AND THE 500 YEAR EVENT FOR BRIDGES.
- ⑤ HEAD WATER ELEVATIONS MAY VARY SLIGHTLY DEPENDING UPON THE PIPE OPTION SELECTED.
- ⑥ NOTE ANY CULVERTS THAT WERE SIZED USING THE HEADWATER EXCEPTION PROCEDURE PER SECTION 11.3.1.3.2 OF THE HYDRAULICS MANUAL. (FORMERLY CALLED PM10.)

EXCEEDANCE PROBABILITY	
25 YEAR	4% CHANCE
50 YEAR	2% CHANCE
100 YEAR	1% CHANCE
200 YEAR	0.5% CHANCE
500 YEAR	0.2% CHANCE



MONTANA
Department of Transportation

DESIGNED BY
L. McGilivray
1/2026

REVIEWED BY
J. Heidner
1/2026

CHECKED BY
C. Knuth
7/2025

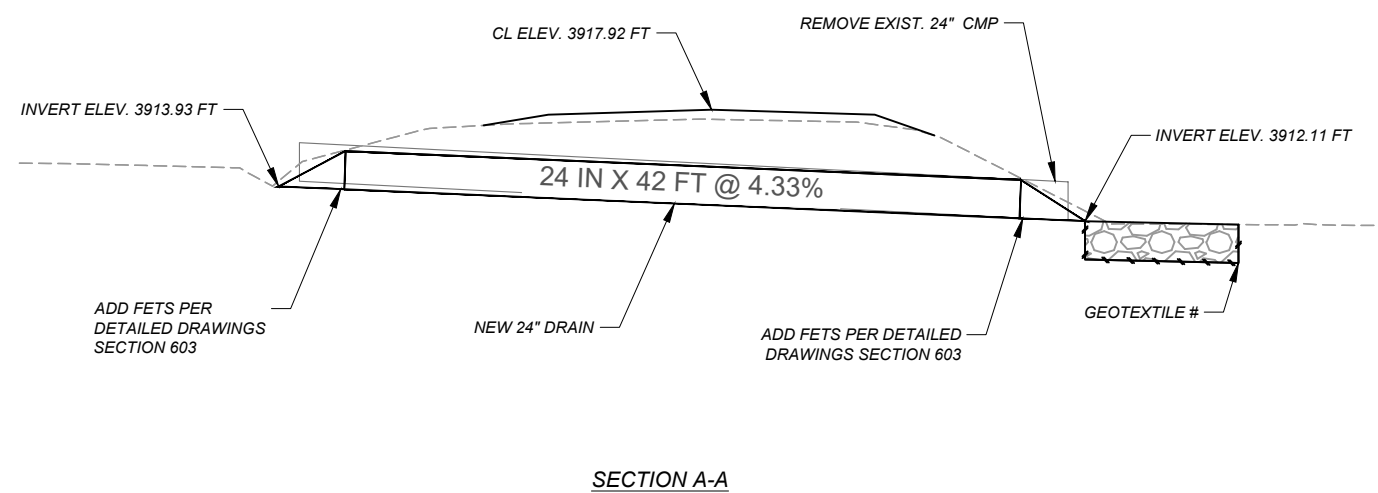
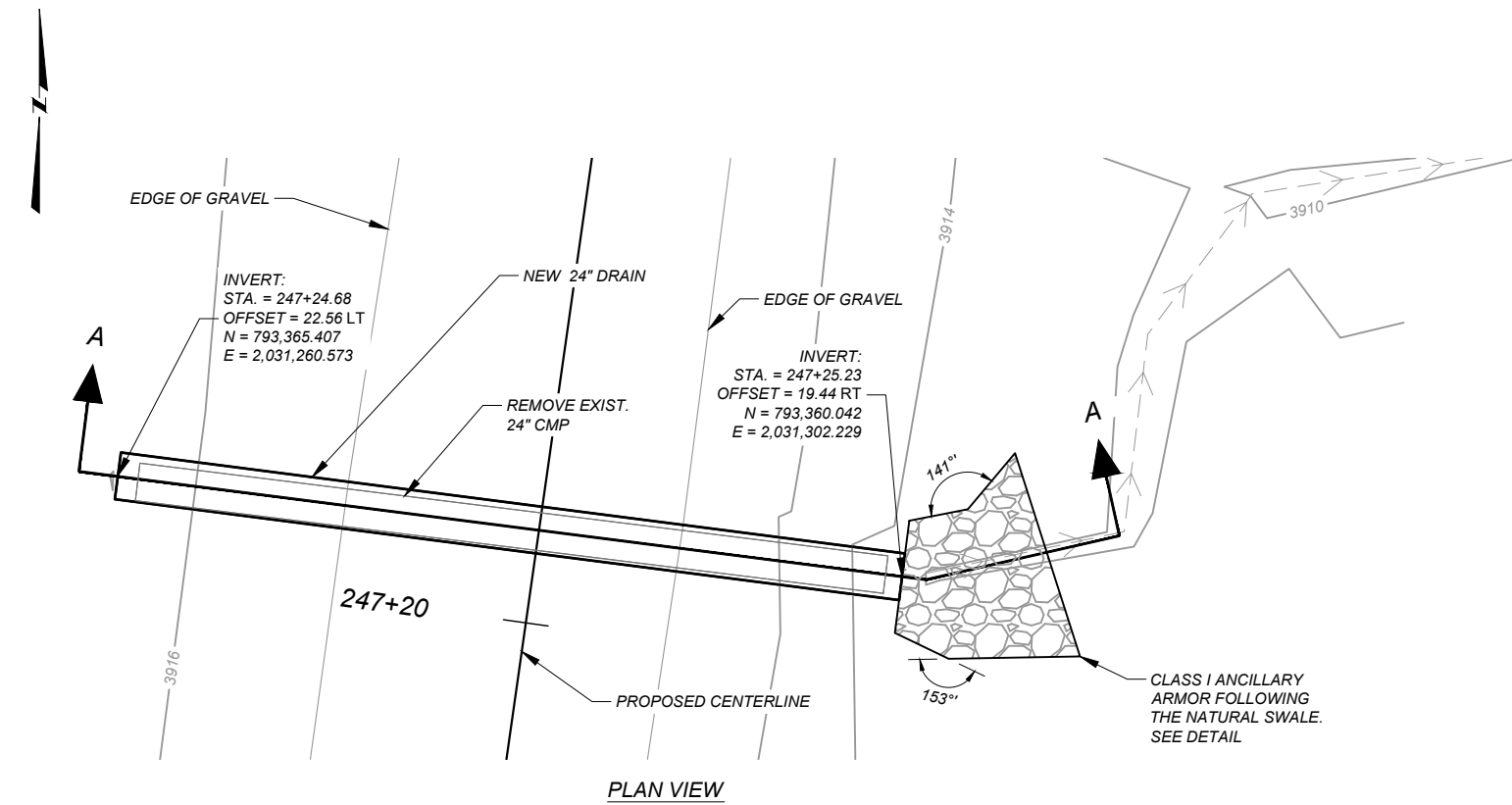
9800000HYHDS001.DWG

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

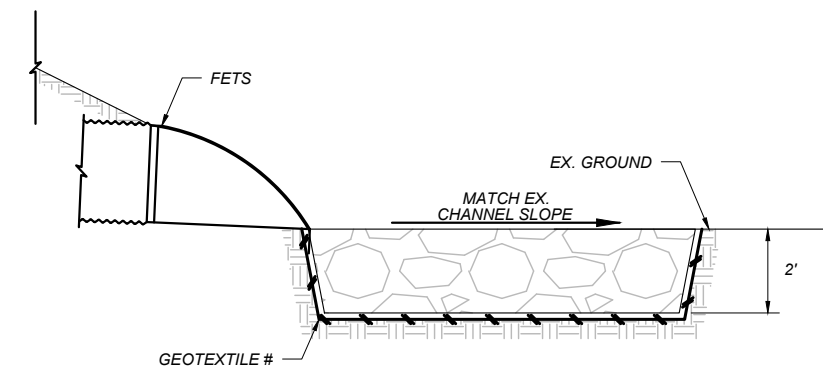
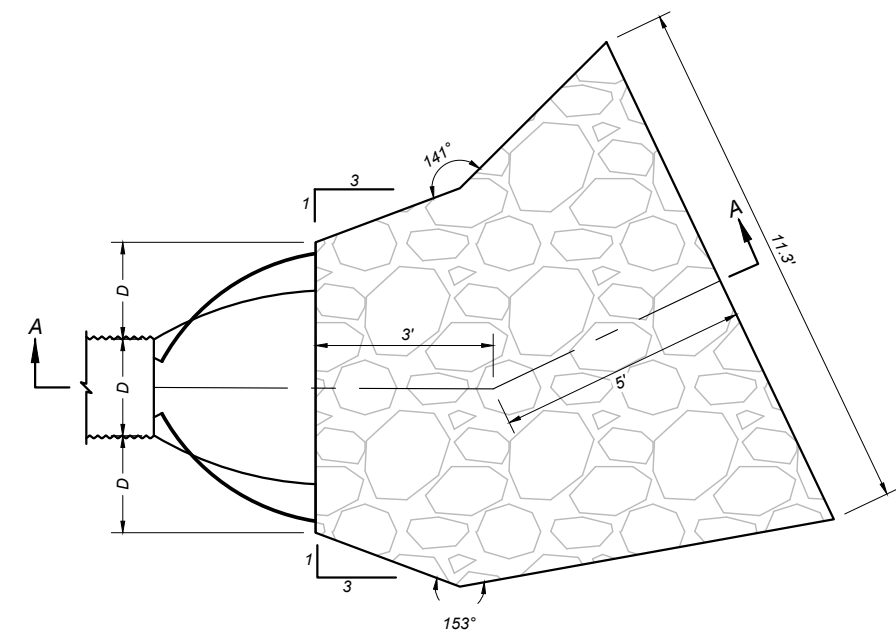


CULVERT

SCALE: 1" = 10'

			CLASS I ANCILLARY ARMOR (2' THICK)	
<i>CULVERT STATION</i>	<i>LOCATION</i>	<i>CULVERT DIA. OR SPAN D (in.)</i>	<i>CLASS I ANCILLARY ARMOR (yd²)</i>	<i>GEOTEXTILE # (yd²)</i>
247+25	RT.	24	5.0	15.2

**# PERMANENT EROSION CONTROL GEOTEXTILE -
CLASS C HIGH SURVIVABILITY**



SECTION A-A

CULVERT OUTLET ANCILLARY ARMOR

NOT TO SCALE

**STA. 247+25 (S-238) CULVERT
DETAIL**

S-238/S-300 - RYEGATE

GOLDEN VALLEY

PROJECT ID: STPS STWD(743) / IPN

9800000

DESIGNED BY	
L. McGillivray	1/2026
DESIGNED BY	


REVIEWED BY	
J. Heidner	1/2026

	CHECKED BY
C. Knuth	7/2025

9800000HYDET004.DWG

PROJECT NAME	S-238/S-300 - RYEGATE
COUNTY	GOLDEN VALLEY
PROJECT ID	STPS STWD(743)
UPN	9800000

DESIGNED BY	1/2026
REVIEWED BY	1/2026
CHECKED BY	7/2026
9800000HYDET003.DWG	

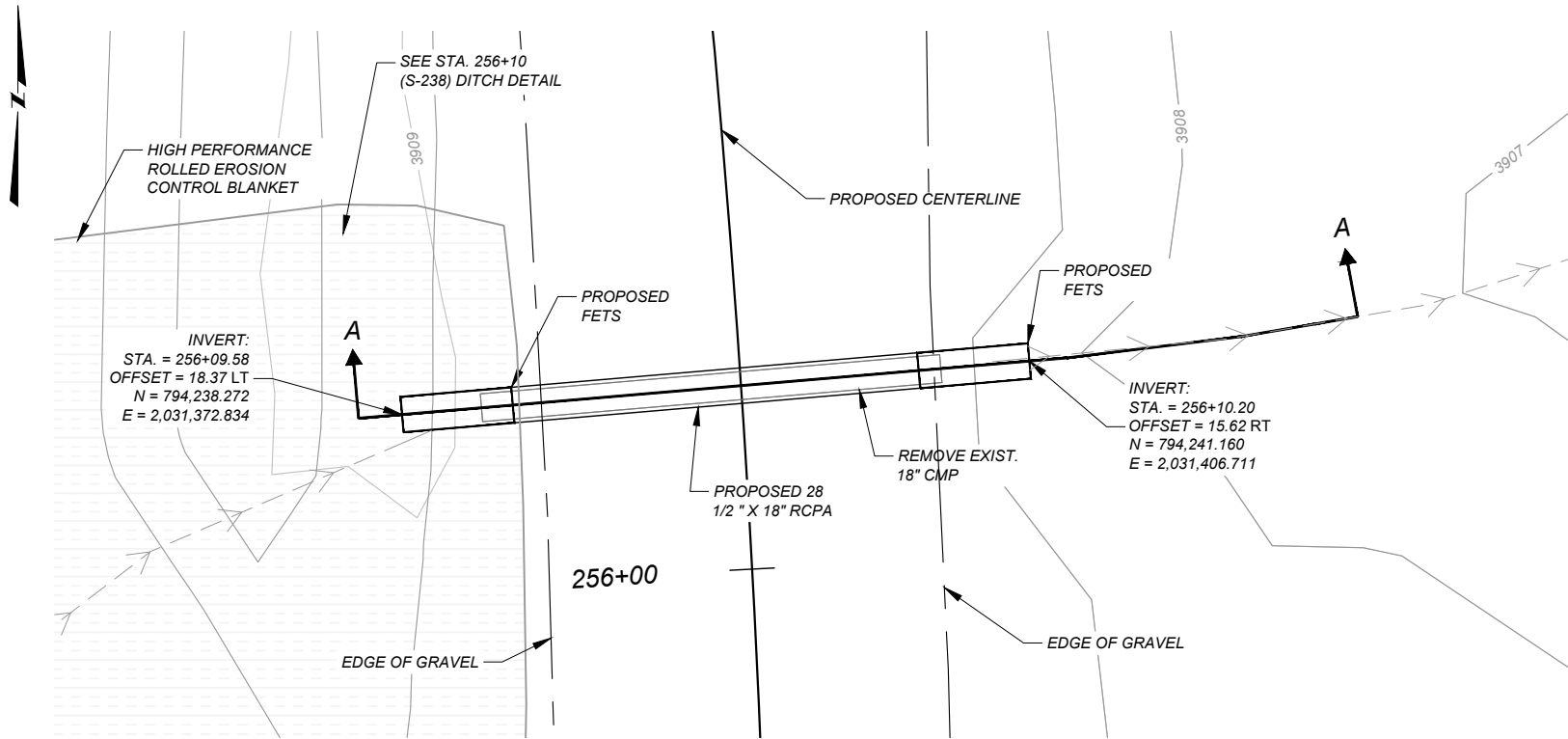


MONTANA

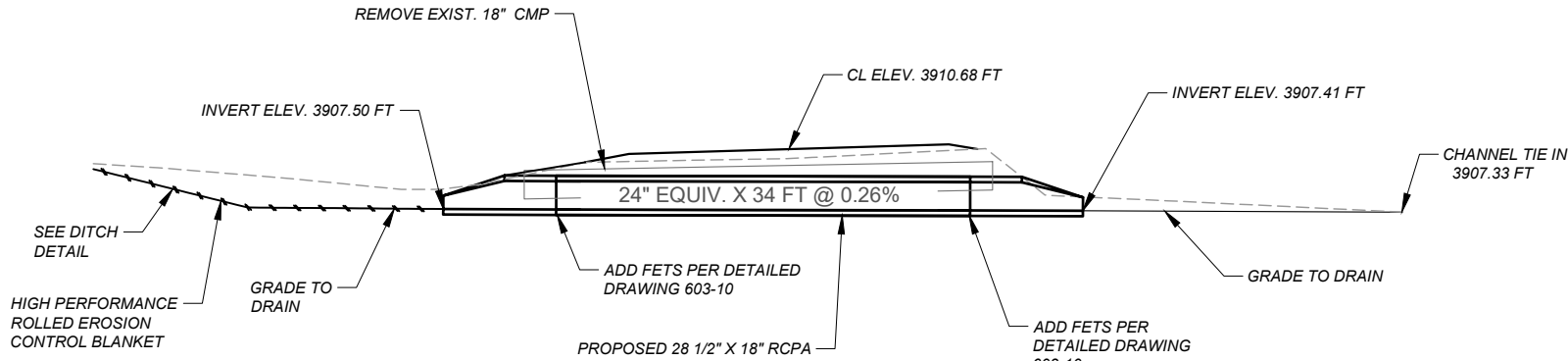
Department of Transportation

HYDRAULICS PLANS

3/12/2026 10:37 AM

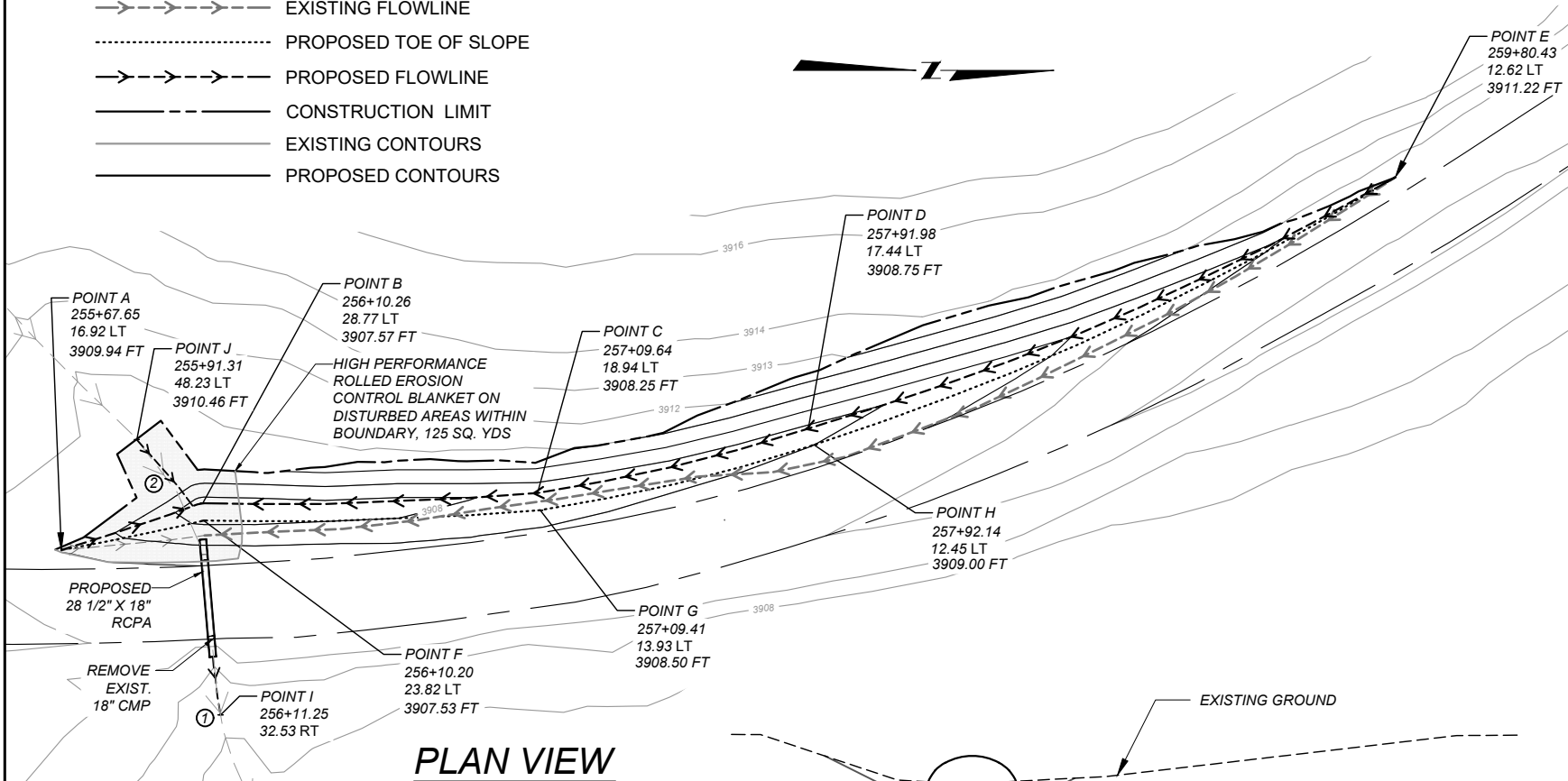


PLAN VIEW



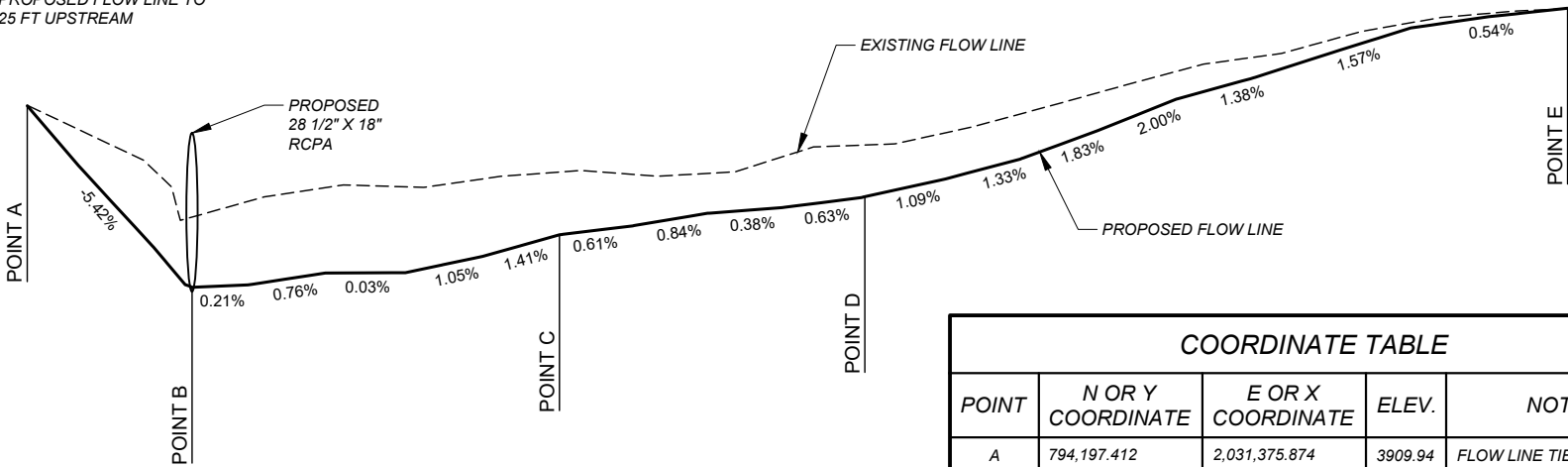
SECTION A-A

- EDGE OF GRAVEL
- EXISTING FLOWLINE
- PROPOSED TOE OF SLOPE
- PROPOSED FLOWLINE
- CONSTRUCTION LIMIT
- EXISTING CONTOURS
- PROPOSED CONTOURS



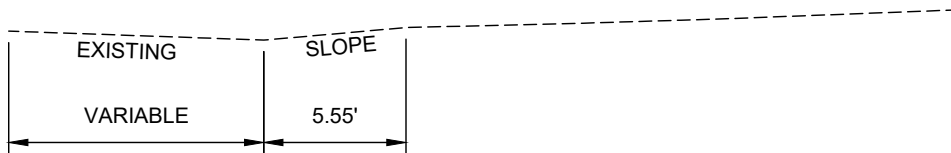
- OUTLET CHANNEL GRADE TO DRAIN, TRANSITION FROM CULVERT OUTLET TO EXISTING GROUND 17 FT DOWNSTREAM
- TIE THE EXISTING CHANNEL TO THE PROPOSED DITCH. GRADE TO DRAIN FROM PROPOSED FLOW LINE TO 25 FT UPSTREAM

CULVERT OUTLET DITCH SECTION

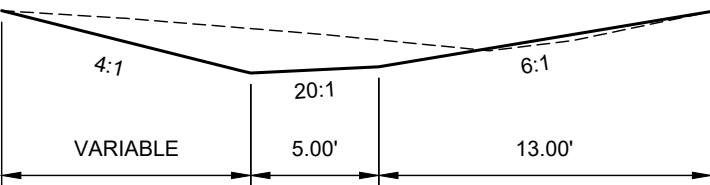


COORDINATE TABLE				
POINT	N OR Y COORDINATE	E OR X COORDINATE	ELEV.	NOTES
A	794,197.412	2,031,375.874	3909.94	FLOW LINE TIE-IN
B	794,238.232	2,031,362.411	3907.57	PROPOSED FLOW LINE
C	794,334.878	2,031,359.393	3908.25	PROPOSED FLOW LINE
D	794,413.037	2,031,340.782	3908.75	PROPOSED FLOW LINE
E	794,582.465	2,031,268.226	3911.22	FLOW LINE TIE-IN
F	794,238.507	2,031,367.354	3907.53	GRADE TO DRAIN
G	794,335.642	2,031,364.351	3908.50	PROPOSED TOE OF SLOPE
H	794,414.687	2,031,345.497	3909.00	PROPOSED TOE OF SLOPE
I	794,243.395	2,031,423.499	3907.33	OUTLET CHANNEL TIE-IN
J	794,219.199	2,031,343.974	3910.46	INLET CHANNEL TIE-IN

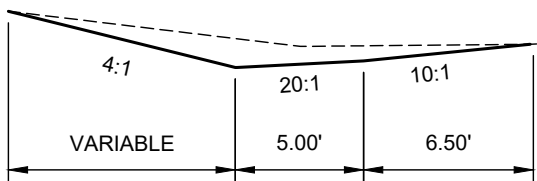
255+67.65 TO 256+10.26 ONLY TRANS. SECTION 1 TO SECTION 2



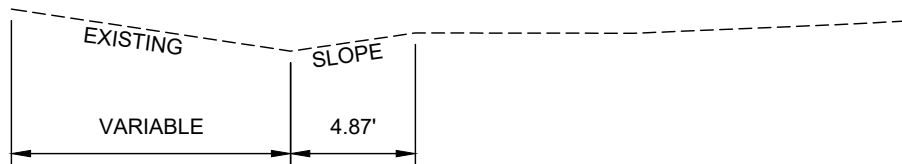
256+10.26 TO 257+09.64 ONLY TRANS. SECTION 2 TO SECTION 3

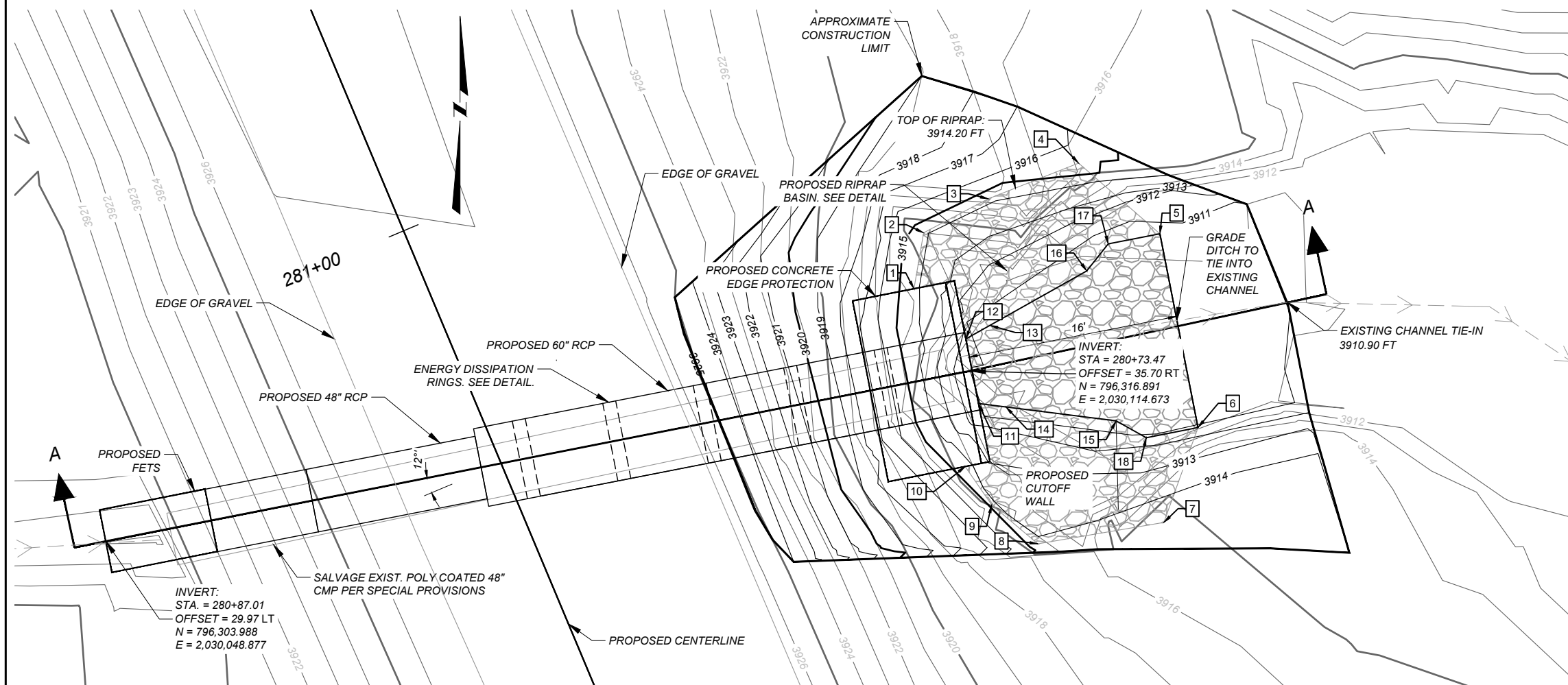


257+09.64 TO 257+91.98 ONLY TRANS. SECTION 3 TO SECTION 4

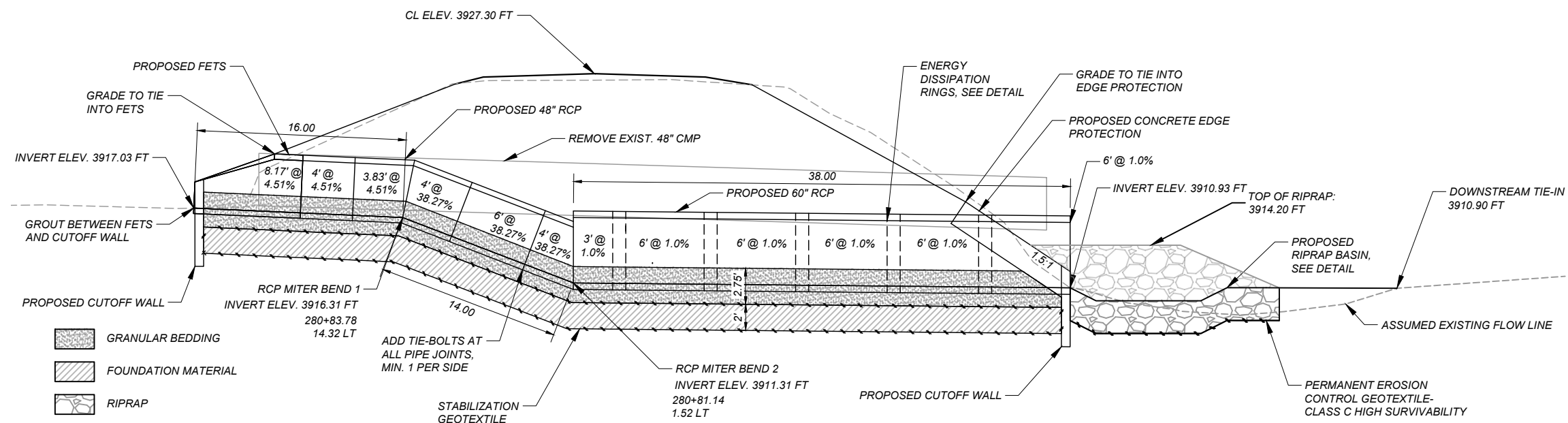


259+80.43 ONLY



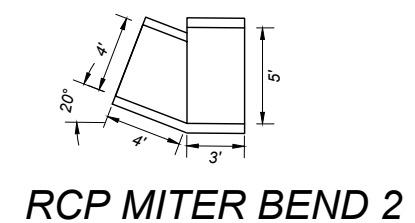
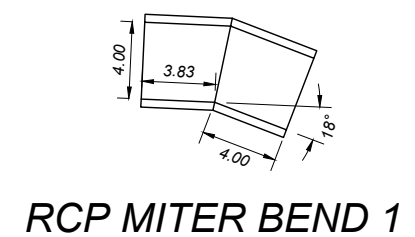


PLAN VIEW

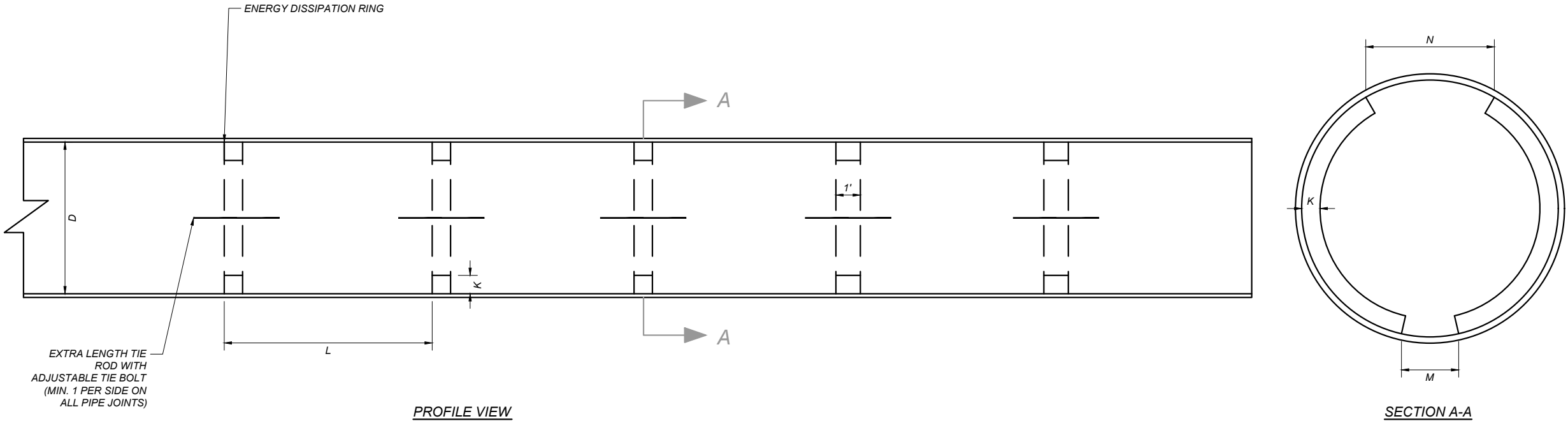


SECTION A-A

NOTE: INCLUDE THE RCP MITER BEND 1 AND 48" FETS IN THE UNIT PRICE BID PER LINEAR FOOT OF 48" RCP. INCLUDE THE ENERGY DISSIPATION RINGS AND RCP MITER BEND 2 IN THE UNIT PRICE BID PER LINEAR FOOT OF 60" RCP.

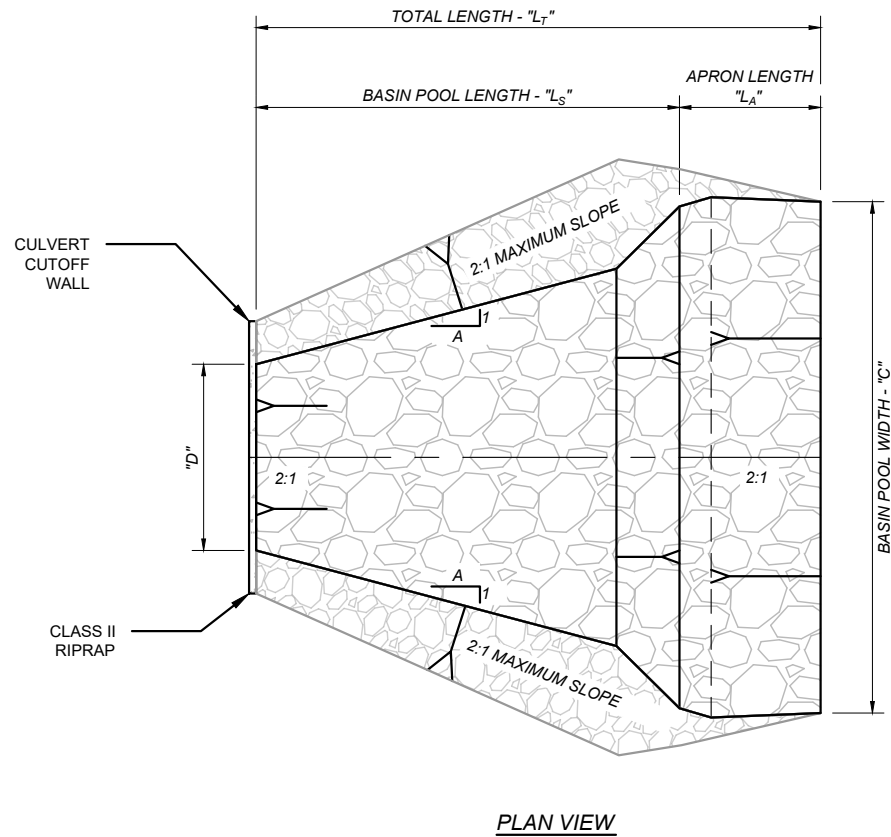


ENERGY DISSIPATION RING DETAIL



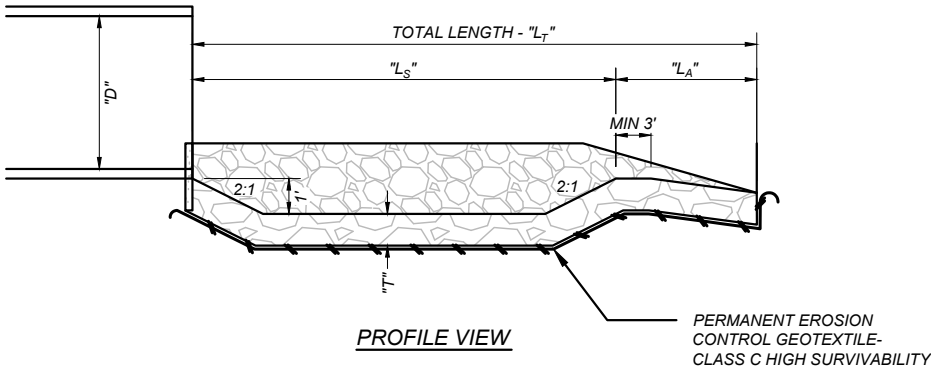
Culvert Sta.	D (in)	K (in)	L (ft)	M (in)	N (in)	JOINT TYPE
280+81	60	6	7	3	18	30A
319+19	72	6	7	3	22	CX4

RIPRAP BASIN DETAIL



STATION	"D" (in.)	"L _S " (ft.)	"L _T " (ft.)	"L _A " (ft.)	"C" (ft.)	"T" (ft.)	"A" (ft.)	CLASS II RIPRAP (yd.) ³	PERMANENT EROSION CONTROL GEOTEXTILE-CLASS C HIGH SURVIVABILITY (yd.) ²	REMOVE EXISTING RIPRAP (yd.) ³	REMARKS
280+81*	60	12	16	4	15	2.5	3	39	70	-	-
319+19	72	15	21.5	6.5	19	2.5	3	70	115	15	RIPRAP SHALL BE VEGETATED ABOVE ELEVATION 3927.19 PER THE SPECIAL PROVISION. AREA OF RIPRAP REVEGETATION IS 56 SQ YDS.

* SKEW BASIN TO NATURAL FLOWLINE. SEE CULVERT PLAN VIEW FOR MORE DETAIL



SHEET NO.

19

ENERGY DISSIPATION
RING AND RIPRAP
BASIN DETAILS

PROJECT NAME

COUNTY

DESIGNED BY

REVIEWED BY

CHECKED BY

MONTANA
Department of Transportation

HYDRAULICS PLANS

S-238/S-300 - RYEGATE

GOLDEN VALLEY

J. Heidner

J. Heidner

C. Knuth

STPS STWD(743)

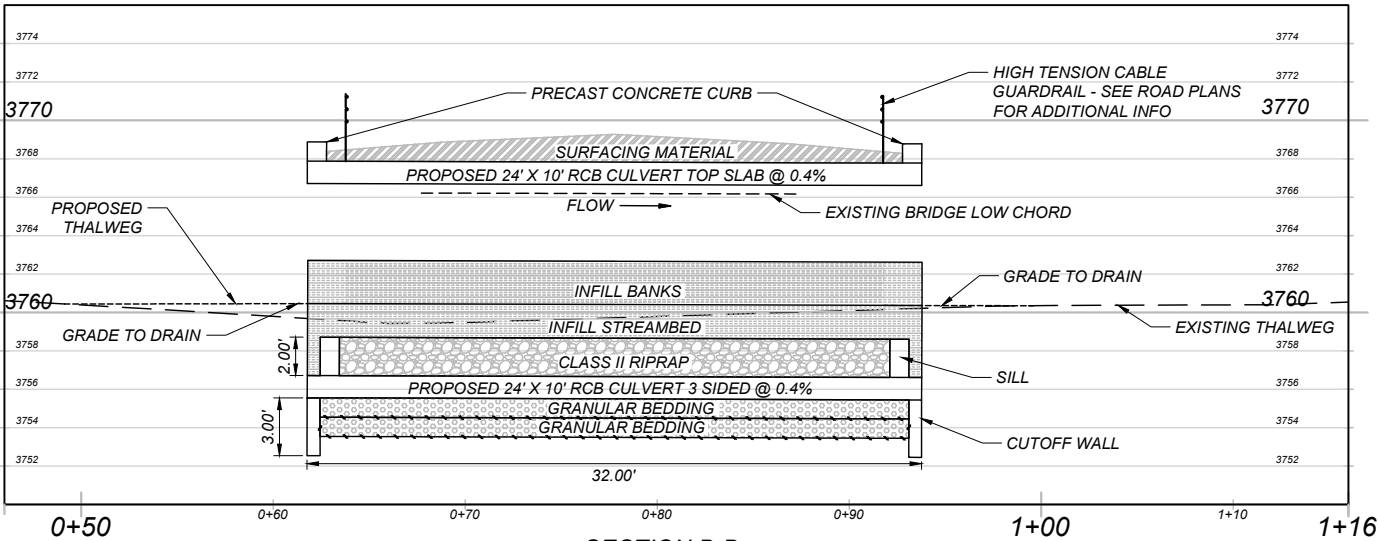
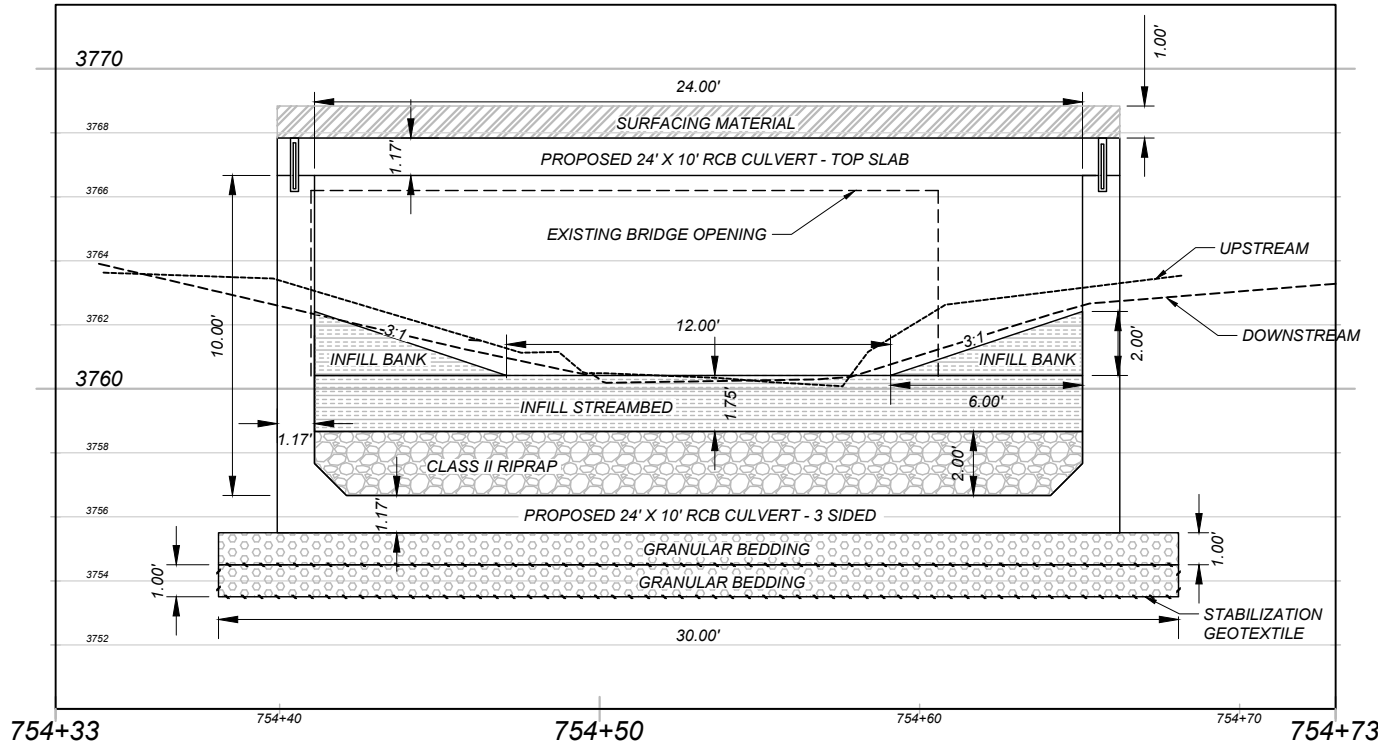
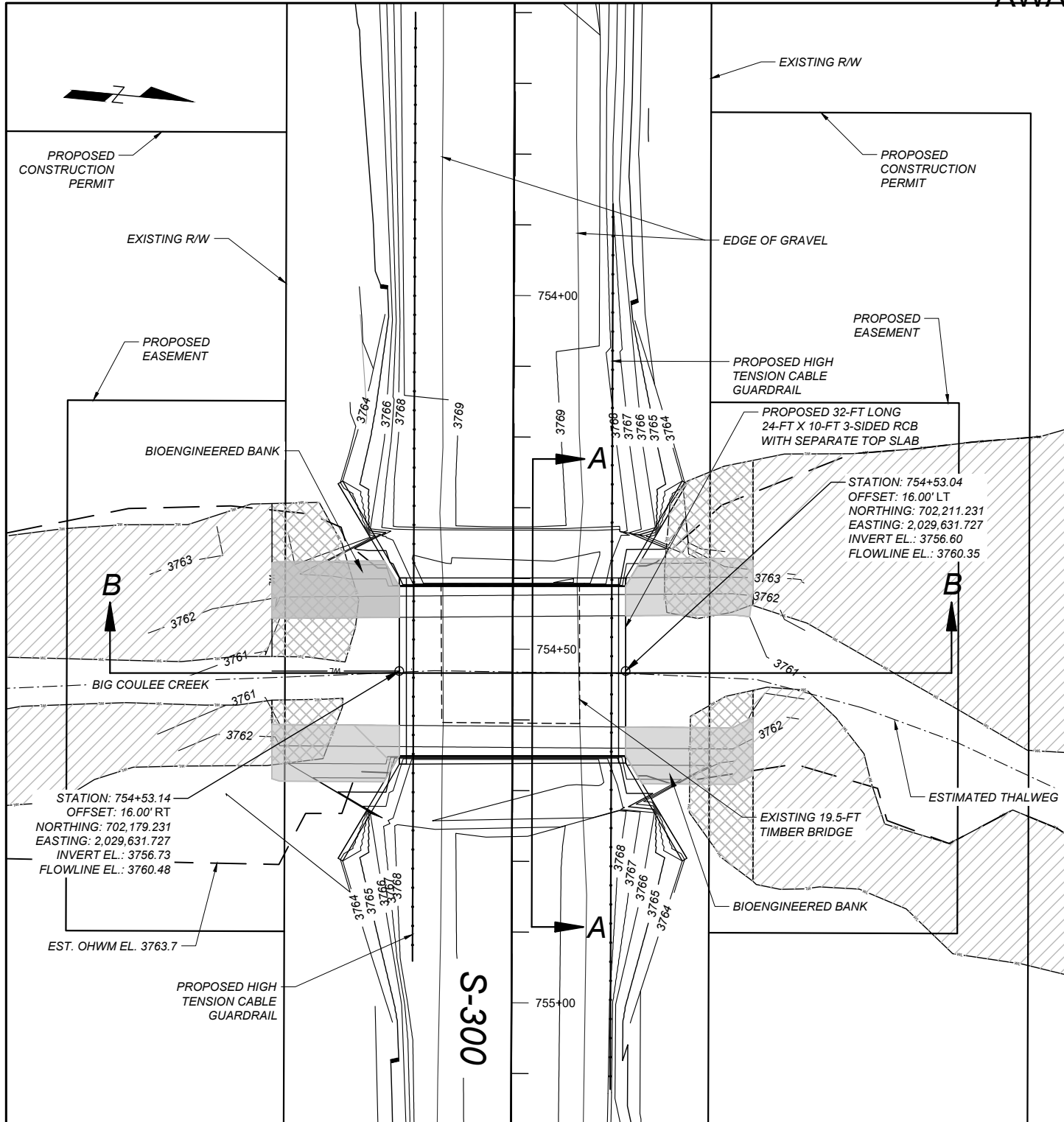
3/26/2026 12:02 PM

9800000

UPN

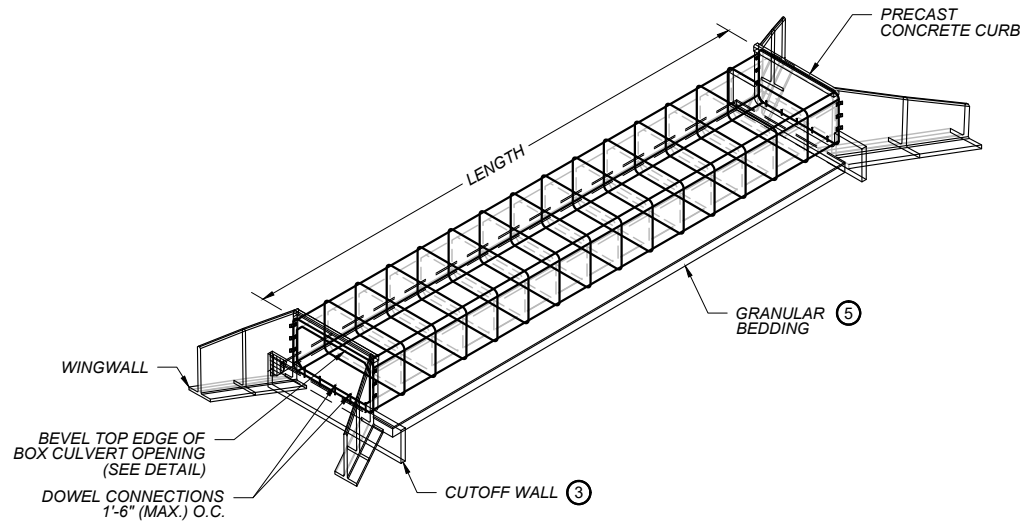
7/2025

9800000HYDET001.DWG

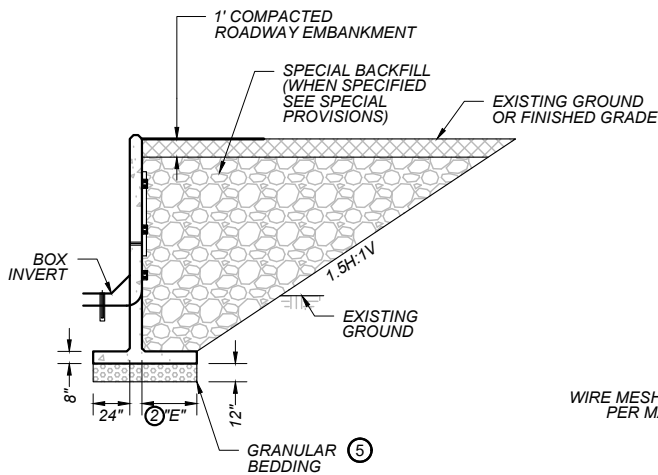


NOTES:
THE INFILL STREAMBED AND INFILL BANKS SHALL CONSIST OF NATIVE STREAMBED MATERIAL. REFER TO THE SPECIAL PROVISIONS FOR MEASUREMENT AND PAYMENT OF STREAMBED MATERIAL AND CLASS II RIPRAP INSIDE THE RCB CULVERT.

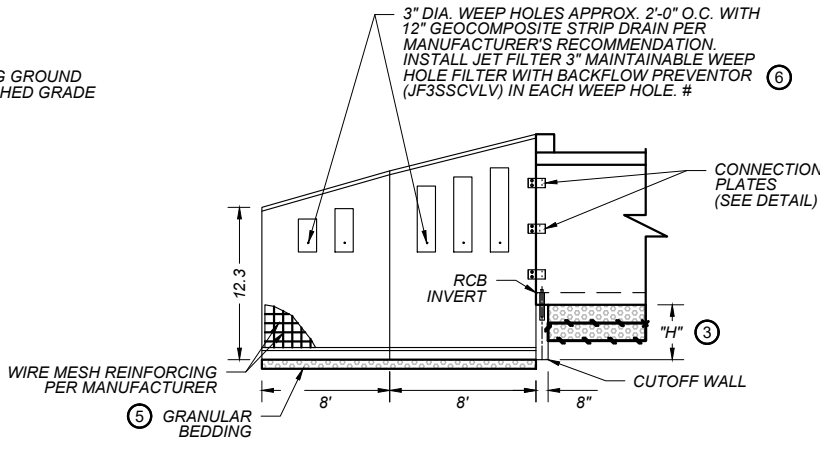
SEE CROSS SECTION OR TYPICAL SECTION FOR ROAD ELEVATIONS AND DITCH SLOPES.



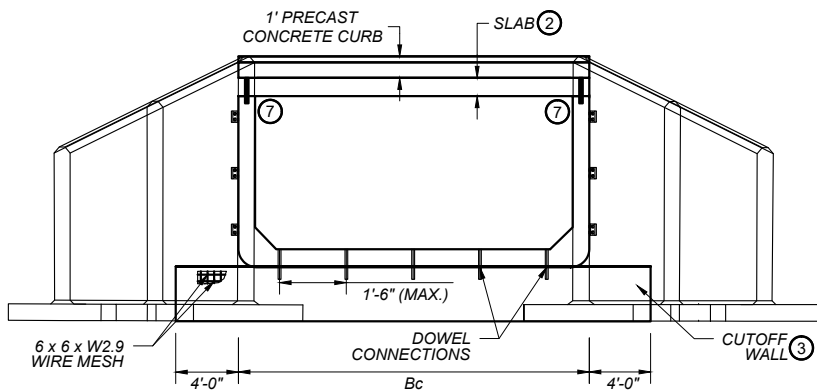
ISOMETRIC VIEW



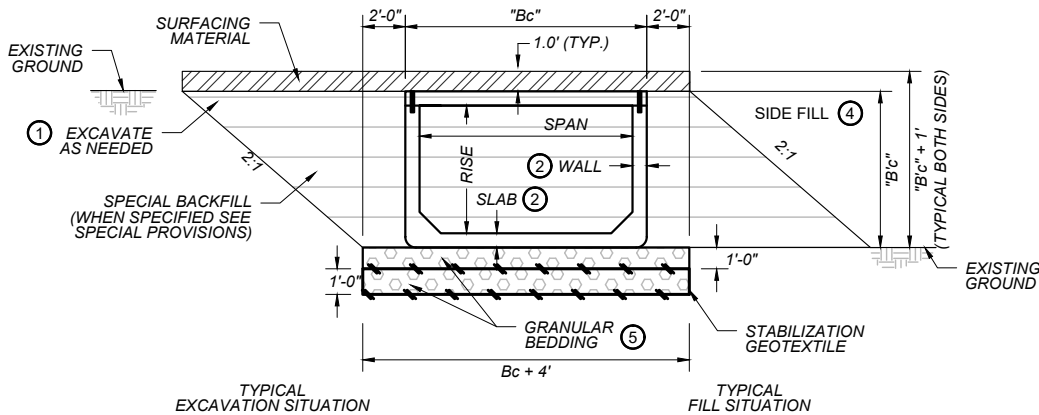
TAPERED WINGWALL
BEDDING AND BACKFILL DETAIL



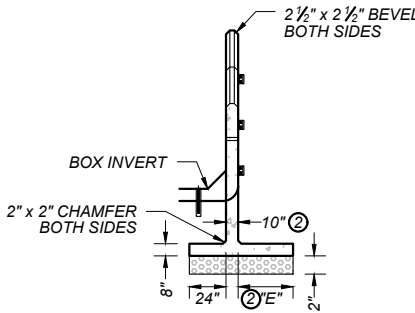
TAPERED WINGWALL
DETAIL SIDE VIEW



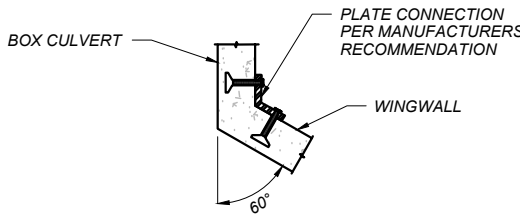
PRECAST SINGLE CELL BOX CULVERT
WITH CUTOFF WALL AND 60° TAPERED WINGWALLS



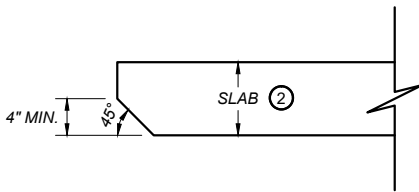
BOX CULVERT BEDDING DETAIL



TAPERED WINGWALL
DETAIL END VIEW



60° CONNECTION
PLATE DETAIL



TOP BEVEL DETAIL

NOTES:

- 1 EXCAVATE A SUFFICIENT AMOUNT TO PROVIDE A SAFE WORKING ENVIRONMENT AND TO ALLOW ACHIEVEMENT OF ALL CULVERT INSTALLATION AND COMPACTION REQUIREMENTS. SLOPE, BENCH OR PROVIDE SHORING FOR ALL EXCAVATIONS IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.
- 2 FOR ESTIMATING QUANTITIES ONLY. ACTUAL DIMENSION TO BE DETERMINED BY PRECAST MANUFACTURER.
- 3 3'-0" MIN. OR 1'-0" BELOW BOTTOM OF FOUNDATION MATERIAL IF SPECIFIED.
- 4 COMPACT AND PLACE SIDE FILL PER SECTION 603 AND 203 OF THE STANDARD SPECIFICATIONS.
- 5 SEE SECTION 701 OF THE STANDARD SPECIFICATIONS FOR GRANULAR BEDDING REQUIREMENTS. THE CONTRACTOR HAS THE OPTION OF USING A SAND CUSHION ABOVE THE GRANULAR BEDDING TO FACILITATE JOINING OF THE BOX CULVERT SECTIONS.
- 6 WEEP HOLES IN WINGWALLS WILL ALL BE AT AN ELEVATION OF 3763.2' TO KEEP THEM BELOW OHWM.
- 7 INSTALL 3-SIDED RCB WITH SEPERATE TOP SLAB. DOWEL AND EPOXY TOP SLAB TO RCB WALLS PER MANUFACTURER'S RECOMMENDATION.

DIMENSIONS										
STATION	SPAN (ft.)	RISE (ft.)	LENGTH (ft.)	WALL (in.)	SLAB (in.)	"E" (in.)	"Bc" (ft.)	"B'c" (ft.)	"H" (ft.)	COVER (ft.)
754+53	24	10	32	14	14	40	26.33	12.33	3	1

NOTE: QUANTITIES ARE BASED ON THE DIMENSIONS IN THE TABLE. PROVIDE BOX CULVERT MEETING ASTM C1577. INCLUDE PRECAST TAPERED WINGWALLS, PRECAST CONCRETE CURBS, PRECAST SILLS, PRECAST CUTOFF WALLS, SPECIAL BACKFILL BEHIND TAPERED WINGWALLS, GEOCOMPOSITE STRIP DRAINS, AND GRANULAR BEDDING BENEATH THE TAPERED WINGWALLS IN THE UNIT PRICE BID PER LINEAR FOOT OF RCB

PROVIDE A GEOCOMPOSITE STRIP DRAIN CONSTRUCTED OF A HDPE DRAINAGE CORE WITH A MINIMUM COMPRESSIVE STRENGTH OF 9000 PSF PER ASTM D 1621 AND A MINIMUM FLOW CAPACITY OF 20 GPM PER ASTM D 4716. THE STRIP DRAIN MUST BE WRAPPED IN A SUBSURFACE DRAINAGE GEOTEXTILE FILTER MEETING THE REQUIREMENTS OF HIGH SURVIVABILITY, CLASS B OF SECTION 716.

CULVERT INFILL QUANTITIES (FOR INFORMATION ONLY)	
ITEM	(CU YD)
RIPRAP - CLASS II	50
STREAMBED MATERIAL	67

NOTE: STREAMBED MATERIAL USED TO FILL RIPRAP VOIDS IS INCIDENTAL. SEE SPECIAL PROVISIONS.

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

UPN

9800000

DESIGNED BY

L. MCGILLIVRAY

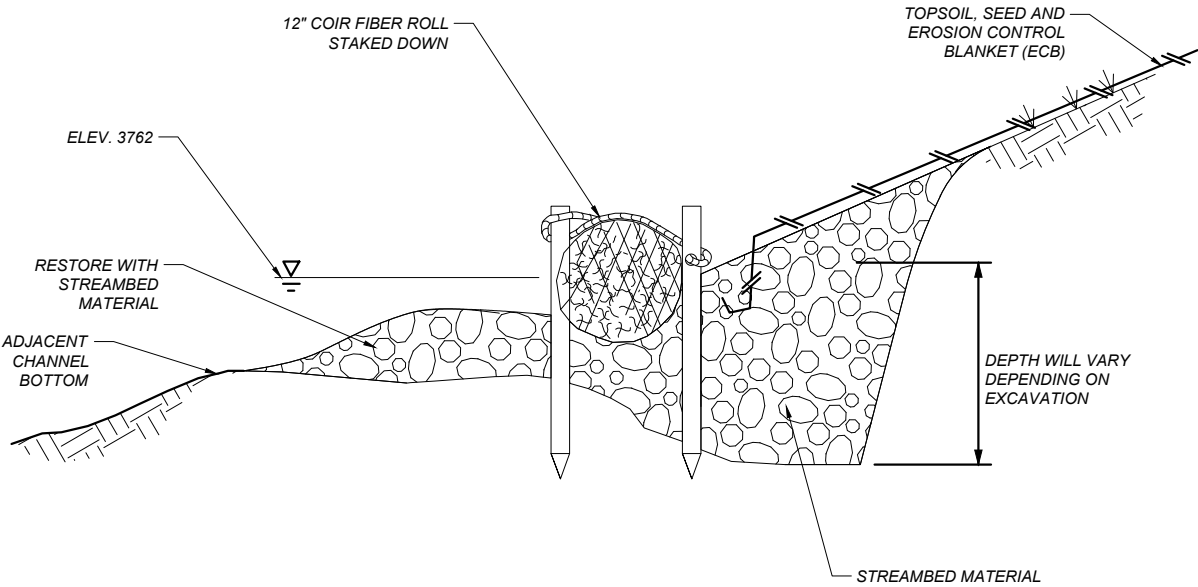
REVIEWED BY

J. HEIDNER

CHECKED BY

J. JOHNSON

9800000HYDET006.DWG



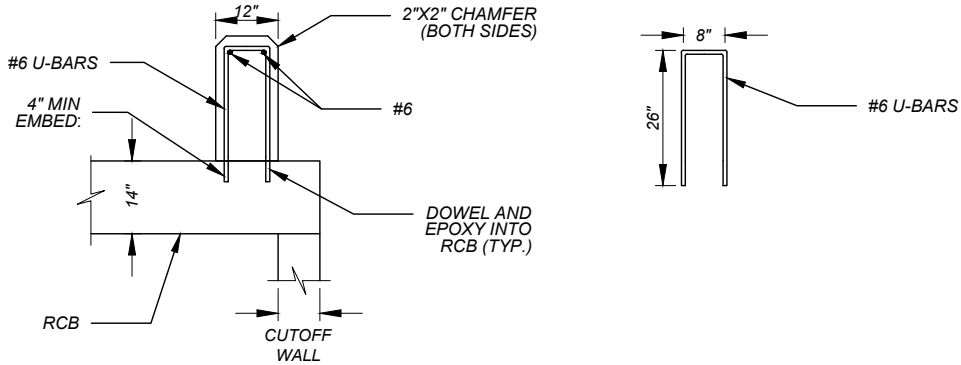
BIOENGINEERED BANK WITH REVEGETATED SLOPE
NO SCALE

NOTES:

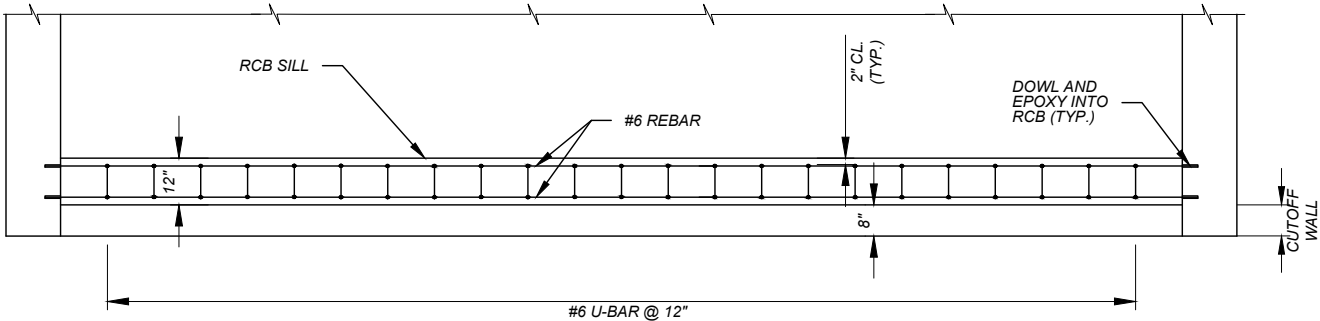
- 1 GRADE, TOPSOIL, SEED, AND BLANKET EXPOSED AREA AFTER CULVERT INSTALLATION PER CONTRACT SPECIAL PROVISIONS.
- 2 GRADE SOIL TO MEET EXISTING STREAM BANKS.
- 3 LOCATION OF BIOENGINEERED BANKS ARE FOR REFERENCE ONLY, CONTRACTOR WILL INSTALL BIOENGINEERED BANKS ON ALL DISTURBED BANK AREAS.

BIOENGINEERED BANK QUANTITIES (FOR INFORMATION ONLY)		
ITEM	(FT)	(SQ YD)
12" COIR ROLL	72	~
STREAMBED MATERIAL	~	62

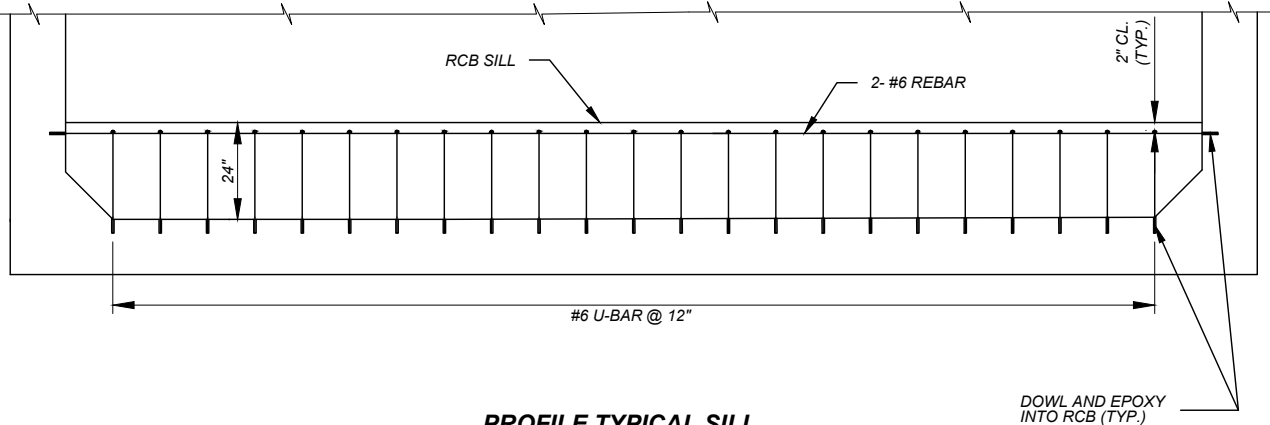
QUANTITIES ARE BASED ON THE ESTIMATED BANK DISTURBANCE SHOWN ON THE PLANS. PAYMENT IS INCLUDED IN THE LUMP SUM BID PRICE FOR BIOENGINEERED BANK AND SHALL BE BASED ON ACTUAL BANK DISTURBANCE.



PRECAST BOX CULVERT TYPICAL SILL



PLAN TYPICAL SILL



PROFILE TYPICAL SILL

NOTES:

- 1 FOR ALL DOWEL AND EPOXY INSTALLATIONS INTO THE RCB, MINIMUM EMBEDMENT DEPTH IS 4-IN.
- 2 EPOXY RESIN BONDING ADHESIVE: MEET THE REQUIREMENTS OF AASHTO M235 TYPE 4.
- 3 SILLS SHALL BE PRECAST INTO RCB END SECTIONS.

RCB SILL DETAIL
STA 754+53

SHEET NO.

22

**RCB SILL AND
BIOENGINEERED BANK
DETAILS**

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
L. MCGILLIVRAY
1/2026

REVIEWED BY
J. HEIDNER
1/2026

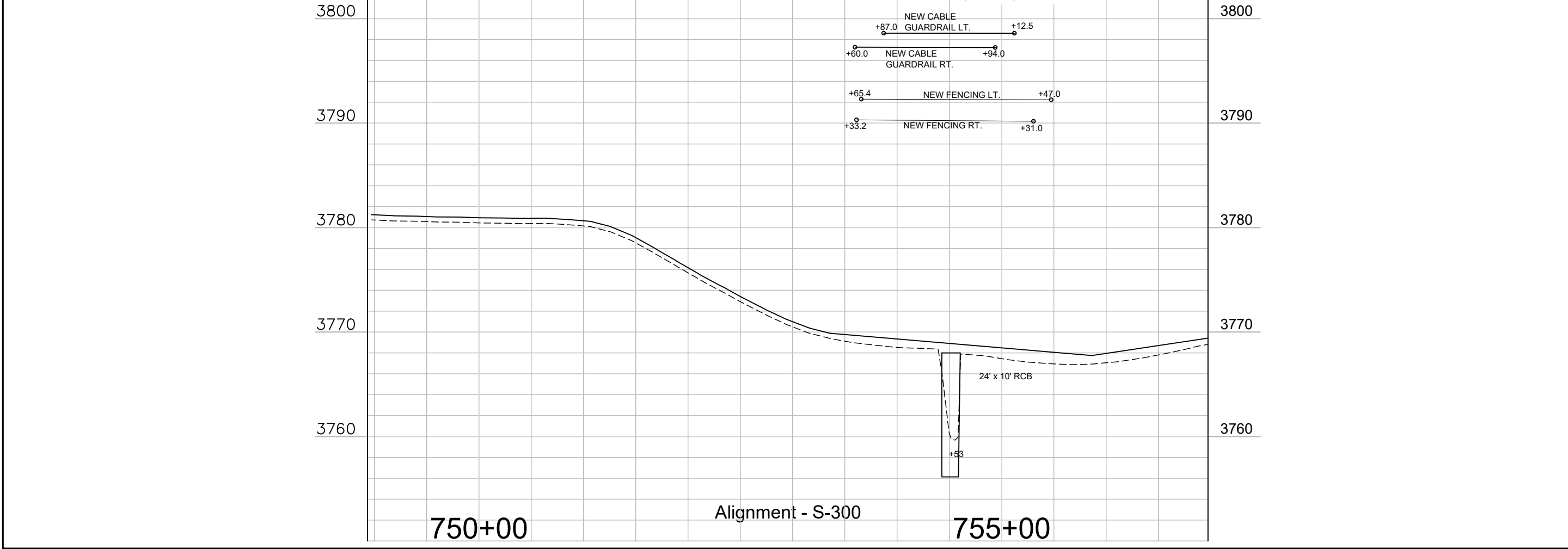
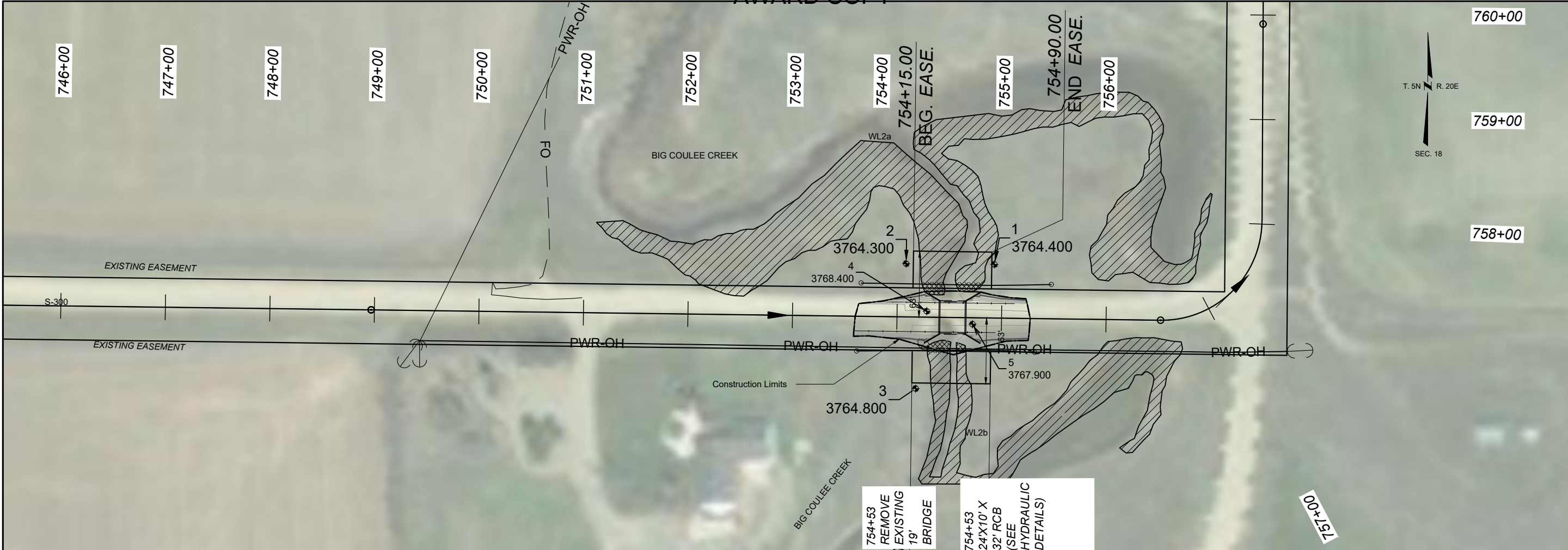
CHECKED BY
J. JOHNSON
7/2025


9800000HYDET006.DWG

MONTANA
Department of Transportation

HYDRAULICS PLANS

3/26/2026 12:04 PM



 MONTANA Department of Transportation		PROJECT NAME S-238/S-300 - RYEGATE	
		COUNTY GOLDEN VALLEY	
PLAN AND PROFILE SHEETS		PROJECT ID STPS STWD(743)	
		UPN 9800000	
DESIGNED BY C. HOPKINS	1/8/2026	PROJECT NAME S-238/S-300 - RYEGATE	
REVIEWED BY K. SHUCK	1/8/2026	COUNTY GOLDEN VALLEY	
CHECKED BY T. JOHNSON	1/8/2026	PROJECT ID STPS STWD(743)	
9800000RDPLP001.DWG		UPN 9800000	

PLAN AND PROFILE SHEET

COUNTY	S-238/S-300 - RYEGATE
--------	-----------------------

GOLDEN VALLEY

UPN

STPS STWD(743)

9800000

C. HOPKINS	1/8/2026
------------	----------

REVIEWED BY	
K. SHUCK	1/8/2026

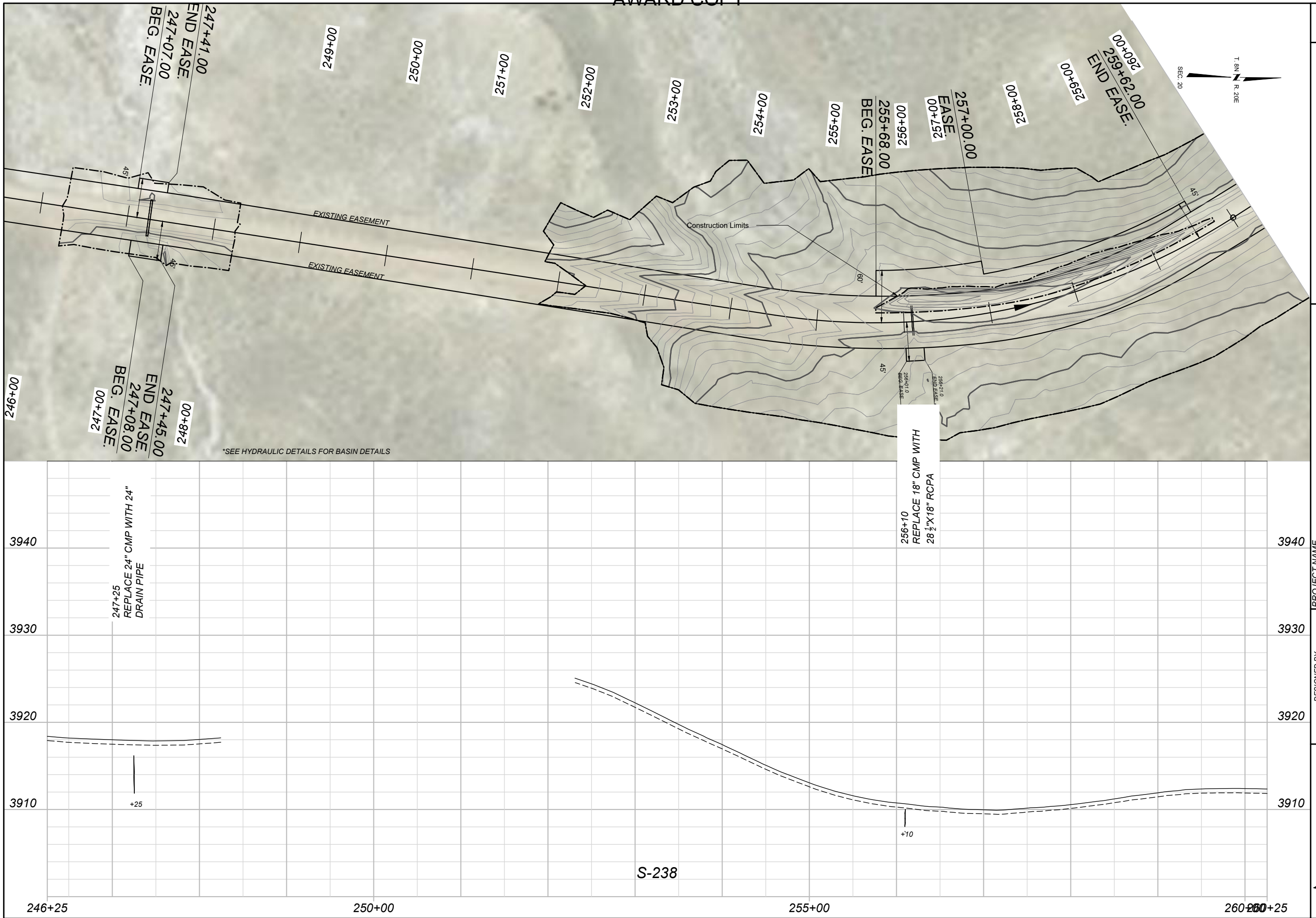
CHECKED BY	
T. JOHNSON	####



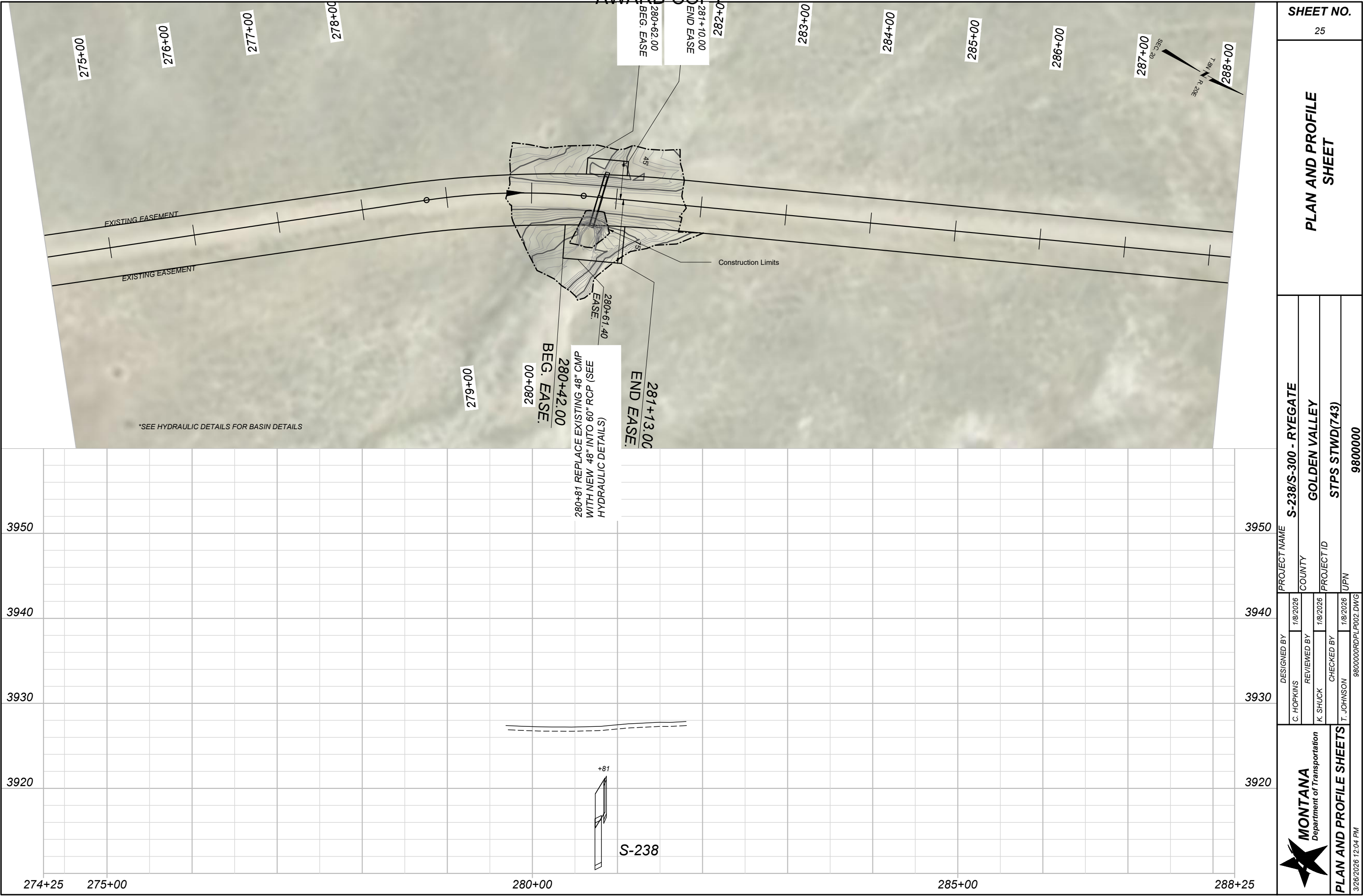
MONTANA
Department of Transportation

PLAN AND PROFILE SHEETS

3/26/2026 12:04 PM



~~AWARD COPY~~



PLAN AND PROFILE
SHEET

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

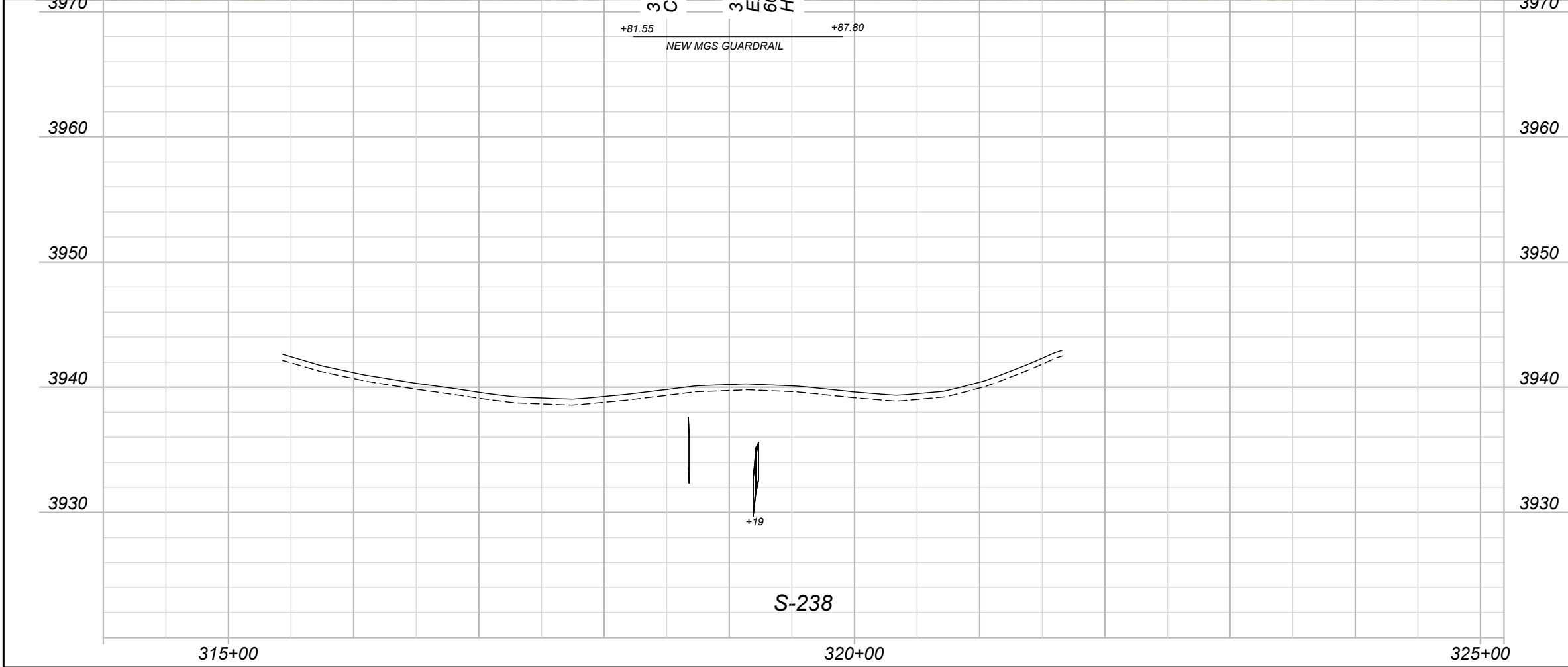
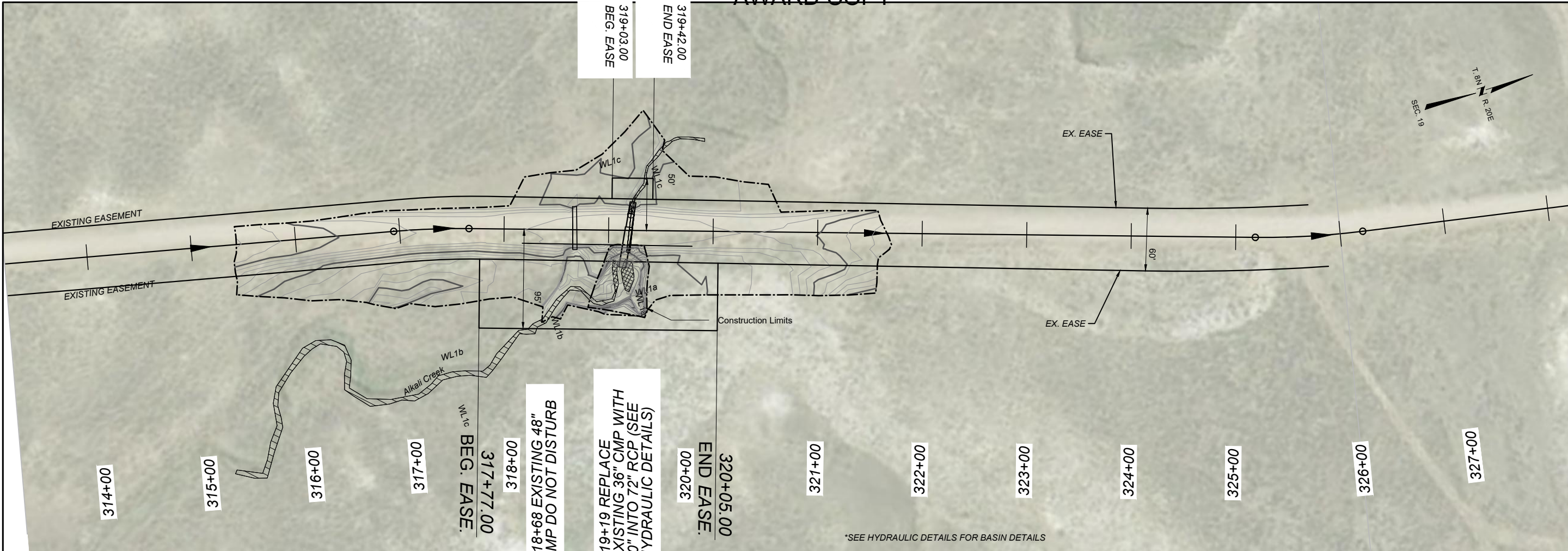
UPN

9800000



PLAN AND PROFILE SHEETS

3/26/2026 12:04 PM



NOTES AND ABBREVIATIONS:

MOUNTING HEIGHT REQUIREMENTS: MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08

SEE LOCATION AND SPECIFICATION SHEETS FOR PORTIONS OF PROJECT NOT INCLUDED WITHIN SIGNING PLAN SHEETS.

SIGN POSTS SYMBOLS SHOWN ARE FOR REFERENCE ONLY TO SHOW EXISTING SIGNS THAT REQUIRE NO ACTION.

SIGNING AND PAVEMENT MARKING LOCATIONS ARE APPROXIMATE. PROJECT MANAGER TO FIELD ADJUST AS NECESSARY.

ADOPT A HIGHWAY: IF SIGNS N7-1/N7-1P EXIST, CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

BBR = BACKBRACING REQUIRED:

- FOR WOOD POLE SEE DET. DWG 619-22
- FOR STEEL POST 2" X 2" X 1/4" REQUIRED. SEE DET. DWG 619-16
- FOR STRUCTURAL STEEL POST 2 3/4" X 2 3/8" EXTRUDED "T" SECTION BACKBRACE REQUIRED. SEE DET. DWG 619-19
- FOR CANTILEVER POST, SEE DET. DWG 619-18
- FOR GUIDE SIGN PANELS, USE EXTRUDED "T" SECTION BACKBRACE. SEE DET. DWG 619-04

USE HARDWARE MEETING REQUIREMENTS OF SECTION 704

RSFO = REPLACE SIGN FACE ONLY

FY = FLUORESCENT YELLOW SHEETING REQUIRED

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED

1 AIR = 1 OR 2 ANGLE IRONS REQUIRED
2 AIR = 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.EACH) IF Y POST DOES NOT REACH TOP 6" OF PANEL, 2 ANGLE IRONS REQUIRED.

MBB = MOUNT BACK TO BACK

CAM = CHEVRON ANGLE MOUNT (SEE DET. DWG 619-24)

CBR = CONCRETE BARRIER RAIL

× = STANDARD BREAKAWAY DEVICE:

- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

▲ = SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.

★ = TELESKOPEDED SQUARE TUBES (2-1/4" & 2-1/2") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

■ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

BGR = BEHIND GUARDRAIL

SITE S-238 SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	58.2	SQFT
REMOVE SIGN	6	EACH
POSTS-STEEL U SIGN	100	LB
POLES-TREATED WOOD 4 IN	5	EACH
DELINEATOR TYPE 1	193	EACH
DELINEATOR TYPE 2	36	EACH

DELINEATION SPECIFICATIONS		
SYMBOL	DESIGN	TOTAL
	A	163
	C	36
	F	30

SITE S-300 SUMMARY
SIGNING QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	345.9	SQFT
REMOVE SIGN	17	EACH
POSTS-STEEL U SIGN	187	LB
POLES-TREATED WOOD 4 IN	15	EACH
POLES-TREATED WOOD 5 IN	18	EACH

NO DELINEATION ON SITE S-300

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
S. WATSON


10/2025

REVIEWED BY

CHECKED BY
N. STYREN

10/2025

9800000SISUM001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

2/11/2026 1:34 PM

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES													ADDITIONAL INFORMATION		SHEET NO.					
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (EACH)		STEEL POST (LBS.)			# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	SIGN LOCATIONS AND SPECIFICATIONS				
				W	X	H							SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL		"U" POST	SIGN	GUIDE	SIGN				GUIDE			
																X																				Y	Z	
S-238: STA. 218+00 - STA. 508+40																																						
256+13.00	L	REPLACE	D10-2 (2x)	10	X	27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8							20		1						S-238/S-300 - RYEGATE GOLDEN VALLEY STPS STWD(743) 98000000			
303+27.00	R	NEW	W1-2R	30	X	30	FY			10.0	4" Treated Wood Pole		5.0	3.0	13.4					6.3		1																
308+71.00	L	NEW	W1-2L	30	X	30	FY			10.0	4" Treated Wood Pole		5.0	3.0	13.4					6.3		1																
309+16.00	L	REPLACE	D10-2 (2x)	10	X	27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20		1										
332+39.00	R	NEW	W1-2L	30	X	30	FY			10.0	4" Treated Wood Pole		5.0	3.0	13.4					6.3		1																
338+01.00	L	NEW	W1-2R	30	X	30	FY			10.0	4" Treated Wood Pole		5.0	3.0	13.4					6.3		1																
363+68.00	L	REPLACE	D10-2 (2x)	10	X	27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20		1										
415+46.00	L	REPLACE	D10-2 (2x)	10	X	27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20		1										
437+86.00	L	REPLACE	D3-1 (2x)	42	X	12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	11.4					7.0		1																
			D3-1 (2x)	42	X	12			MBB											7.0																		
468+36.00	L	REPLACE	D10-2 (2x)	10	X	27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20		1										

2/11/2026 1:34 PM

DESIGNED BY
S. WATSON

REVIEWED BY

CHECKED BY
N. STYREN

10/2025

10/2025















PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000SI\SUM001.DWG

9800000

SIGN LOCATION			PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D / MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H						FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)	4" TOP DIA.	5" TOP DIA.				ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE	SIGN	GUIDE							
				X	Y	Z																											
S-300: STA. 600+00 - STA. 859+61																																	
594+65.00	R	REPLACE	W2-1	30	X	30			10.0	4" Treated Wood Pole		5.0	3.0	13.4					6.3		1							1					
599+42.00	R	REMOVE SIGN	D3-1																								1						
599+42.00	L	REPLACE	D3-1 (2x)	42	X	12		MBB	6.0	4" Treated Wood Pole		5.0	3.0	13.9					7.0		1						1						
			D3-1 (2x)	36	X	12		MBB										6.0															
			R1-1	30	X	30												5.2															
599+98.00	R	NEW	D3-1 (2x)	36	X	12		MBB	6.0	4" Treated Wood Pole		5.0	3.0	10.2					6.0		1												
604+57.00	L	REPLACE	W2-1	30	X	30			10.0	4" Treated Wood Pole		5.0	3.0	13.4					6.3		1						1						
618+41.00	L	NEW	D10-2 (2x)	10	X	27		MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20								
671+15.00	L	NEW	D10-2 (2x)	10	X	27		MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20								
702+38.00	R	REPLACE	W1-1R	30	X	30	FY		10.0	4" Treated Wood Pole		5.5	3.0	13.8					6.3		1						1						
		NEW	W13-1P	18	X	18	FY											2.3															
704+46.00	L	NEW	W1-8 (2x)	24	X	30	FY	CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8			X		10.0			1											
704+86.00	L	NEW	W1-8 (2x)	24	X	30	FY	CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8			X		10.0			1											
705+26.00	L	NEW	W1-8 (2x)	24	X	30	FY	CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8			X		10.0			1											

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

UPN

9800000

DESIGNED BY

S. WATSON

REVIEWED BY

CHECKED BY

N. STYREN

10/2025

10/2025

9800000S\SJUM001.DWG

2/11/2026 1:34 PM

MONTANA

Department of Transportation

SIGNING PLANS

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)















UPN
9800000

DESIGNED BY
S. WATSON

REVIEWED BY
10/2025

CHECKED BY
N. STYREN

10/2025
9800000SISUN001.DWG

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.		
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D / MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	
				W	X	H						MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)					SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE			
														X	Y																			Z
705+30.00	L	NEW	D3-1 (2x)	30	X	12		MBB	6.0	4" Treated Wood Pole		5.0	3.0	10.2					5.0		1													
705+77.00	L	NEW	W1-8 (2x)	24	X	30	FY	CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X	10.0			1												
706+17.00	L	NEW	W1-8 (2x)	24	X	30	FY	CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X	10.0			1												
706+57.00	L	NEW	W1-8 (2x)	24	X	30	FY	CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X	10.0			1												
708+75.00	L	REPLACE	W1-1L	30	X	30	FY		10.0	4" Treated Wood Pole		5.5	3.0	13.8					6.3		1					1								
		NEW	W13-1P	18	X	18	FY												2.3															
723+68.00	L	NEW	D10-2 (2x)	10	X	27		MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8						20									
735+97.00	R	REMOVE SIGN	R12-1																						1									
754+02.00	R	REPLACE	W1-1L	30	X	30	FY		10.0	4" Treated Wood Pole		5.5	3.0	13.8					6.3		1					1								
		NEW	W13-1P	18	X	18	FY												2.3															
754+21.00	L	NEW	OM3-L	12	X	36	FY		1.0	2.0lb Steel U Post		4.0	3.0	10.8					3.0						22									
754+21.00	R	NEW	OM3-R	12	X	36	FY		1.0	2.0lb Steel U Post		4.0	3.0	10.8					3.0						22									
754+81.00	R	NEW	OM3-L	12	X	36	FY		1.0	2.0lb Steel U Post		4.0	3.0	10.8					3.0						22									
754+81.00	L	NEW	OM3-R	12	X	36	FY		1.0	2.0lb Steel U Post		4.0	3.0	10.8					3.0						22									

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

UPN

9800000

DESIGNED BY

S. WATSON

10/2025

REVIEWED BY

CHECKED BY

N. STYREN

10/2025

9800000SISUM001.DWG

MONTANA

Department of Transportation

SIGNING PLANS

2/11/2026 1:34 PM

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	SIGN LOCATIONS AND SPECIFICATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				W	X	H							SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
																X																				Y	Z																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
755+07.00	L	REMOVE SIGN	R12-1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
S. WATSON
















REVIEWED BY
10/2025

CHECKED BY
N. STYREN

10/2025
9800000SISUN001.DWG

MONTANA
Department of Transportation

SIGNING PLANS
2/11/2026 1:34 PM

SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.				
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D / MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	FEET SUPPORT LENGTH (ESTIMATED)			CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	SIGN LOCATIONS AND SPECIFICATIONS
				W	X	H								X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE			
808+43.00	L	NEW	W1-8 (2x)	24	X	30	FY		CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X		10.0			1											SIGN LOCATIONS AND SPECIFICATIONS
808+83.00	L	NEW	W1-8 (2x)	24	X	30	FY		CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X		10.0			1											
809+23.00	L	NEW	W1-8 (2x)	24	X	30	FY		CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X		10.0			1											
809+74.00	L	NEW	W1-8 (2x)	24	X	30	FY		CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X		10.0			1											
810+14.00	L	NEW	W1-8 (2x)	24	X	30	FY		CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X		10.0			1											
810+54.00	L	NEW	W1-8 (2x)	24	X	30	FY		CAM	10.0	5" Treated Wood Pole		5.0	3.5	12.8				X		10.0			1											
812+71.00	L	REPLACE	W1-1L	30	X	30	FY			10.0	4" Treated Wood Pole		5.5	3.0	13.8						6.3		1						1					SIGNING PLANS	
		NEW	W13-1P	18	X	18	FY													2.3															
829+45.00	L	NEW	D10-2 (2x)	10	X	18			MBB	4.0	2.0lb Steel U Post		4.0	3.0	9.2						2.5					19									
850+33.00	R	NEW	W1-2L	30	X	30	FY			10.0	4" Treated Wood Pole		5.0	3.0	13.4						6.3		1												
857+45.00	R	REMOVE SIGN	D3-1																								1								
857+51.00	L	REMOVE SIGN	D3-1																								1								
858+25.00	L	REPLACE	D3-1 (2x)	42	X	12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	13.9						7.0		1					1							
			D3-1 (2x)	42	X	12			MBB												7.0														
			R1-1	30	X	30															5.2														

PROJECT NAME

S-238/S-300 - RYEGATE

COUNTY

GOLDEN VALLEY

PROJECT ID

STPS STWD(743)

UPN

98000000

DESIGNED BY

S. WATSON

REVIEWED BY

CHECKED BY

N. STYREN

10/2025

10/2025

10/2025

98000000

SUM001.DWG

MONTANA

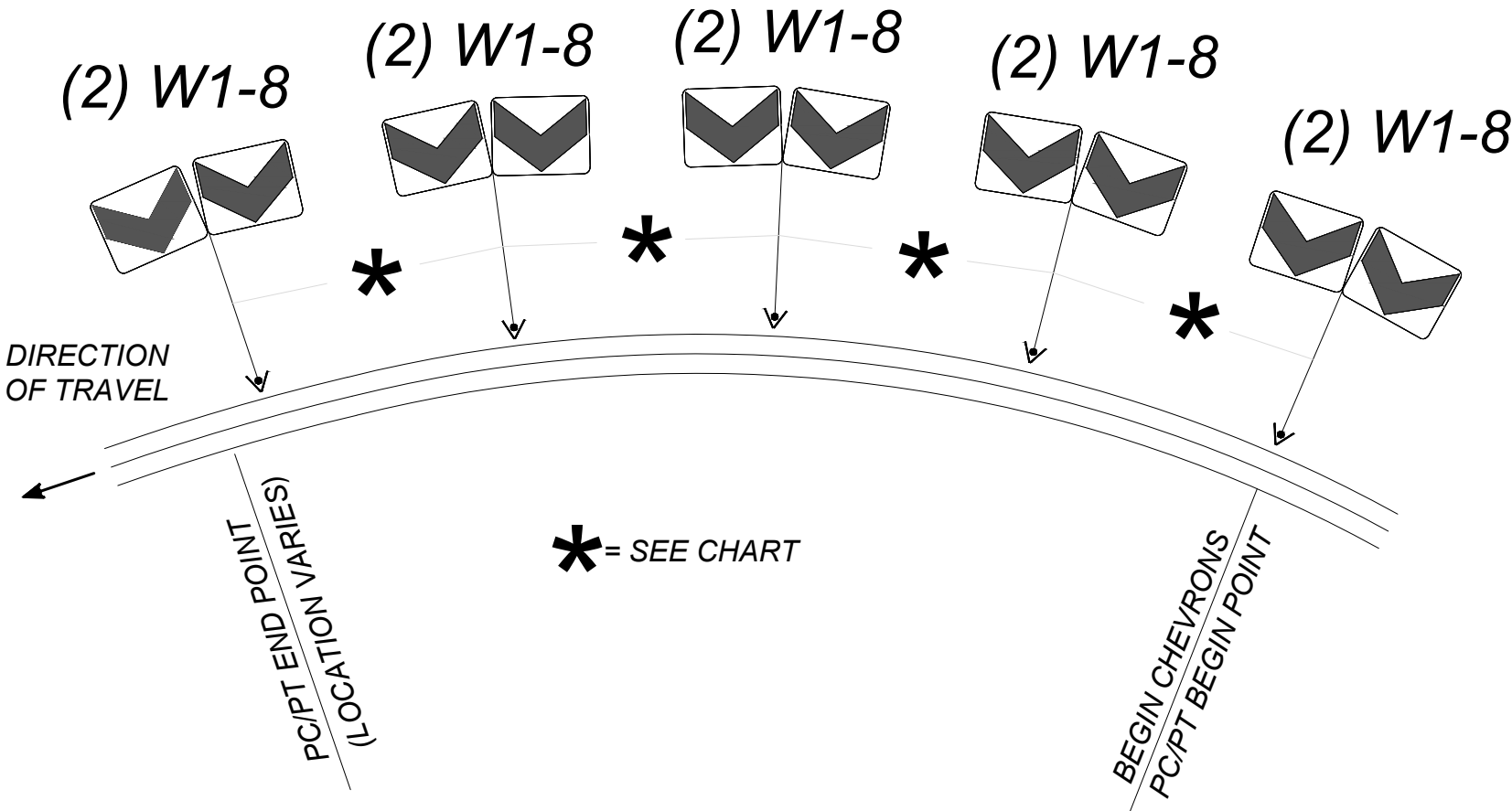
Department of Transportation

SIGNING PLANS

2/11/2026 1:34 PM

CHEVRON PLACEMENT DETAIL

(GUIDANCE ONLY)



CURVE RADIUS	SIGN SPACING	R.P. CONVERSION
<200'	40'	= .008±
200' - 400'	80'	= .015±
401' - 700'	120'	= .023±
701' - 1250'	160'	= .030±
>1250'	200'	= .038±

- 1) SEE SPEC SHEET FOR CHEVRON PLACEMENT
- 2) USE BEGINNING OF CURVE LOCATION AS REFERENCE POINT TO INSTALL CHEVRONS (BEGIN POINT - ALWAYS ON OUTSIDE OF CURVE IN DIRECTION OF TRAVEL)

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
S. WATSON

10/2025

REVIEWED BY


CHECKED BY

10/2025

N. STYREN

9800000SIDET001.DWG



 MONTANA Department of Transportation		DESIGNED BY	PROJECT NAME	
		S. WATSON	S-238/S-300 - RYEGATE	
		REVIEWED BY	COUNTY	GOLDEN VALLEY
		CHECKED BY	PROJECT ID	STPS STWD(743)
SIGNING PLANS		N. STYREN	UPN	9800000
		9800000SIPLN001.DWG		
3/12/2026 11:27 AM				

SHEET NO.
S9

PLAN SHEET

S-238

290+00

300+00

320+00

330+00

310+00

PC 304+27.21

PT 307+70.04

PT 337+00.70

PC 333+39.15



Ref Stationing: 303+27.00
Assembly Status: Proposed
Sign Name: WI-2R



Ref Stationing: 308+71.00
Assembly Status: Proposed
Sign Name: WI-2L
Ref Stationing: 308+71.00
Assembly Status: Proposed
Sign Name: WI-2L (59)
Ref Stationing: 308+71.00
Assembly Status: Proposed
Sign Name: WI-2L (59)



Ref Stationing: 334+01.00
Assembly Status: Proposed
Sign Name: WI-2R



Ref Stationing: 332+39.00
Assembly Status: Proposed
Sign Name: WI-2L

100' ADVANCED CURVE WARNING
SIGN PLACEMENT BEFORE PC/AFTER PT
75', 150', 230', 300', 400'
DELINEATOR SPACING

60', 125', 185', 300', 400'
DELINEATOR SPACING
100' ADVANCED CURVE WARNING
SIGN PLACEMENT BEFORE PC/AFTER PT

SHEET NO.

S10

PLAN SHEET

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
S. WATSON

10/2025

REVIEWED BY

CHECKED BY

N. STYREN

10/2025

98000000SIPLN001.DWG



SIGNING PLANS

3/12/2026 11:28 AM



S-238

340+00


350+00

360+00

380+00

370+00

390

		DESIGNED BY		PROJECT NAME	
		S. WATSON	10/2025	S-238/S-300 - RYEGATE	
SIGNING PLANS		REVIEWED BY		COUNTY	GOLDEN VALLEY
		CHECKED BY		PROJECT ID	STPS STWD(743)
		N. STYREN	10/2025	UPN	9800000
		9800000SIPLN001.DWG			
		3/12/2026 11:28 AM			

SHEET NO.

S11

PLAN SHEET

S-238

400+00

410+00

420+00

SHEET NO.

S12

PLAN SHEET

PROJECT NAME	S-238/S-300 - RYEGATE
COUNTY	

GOLDEN VALLEY


STPS STWD(743)

9800000

DESIGNED BY	10/2025
S. WATSON	

REVIEWED BY	
-------------	--

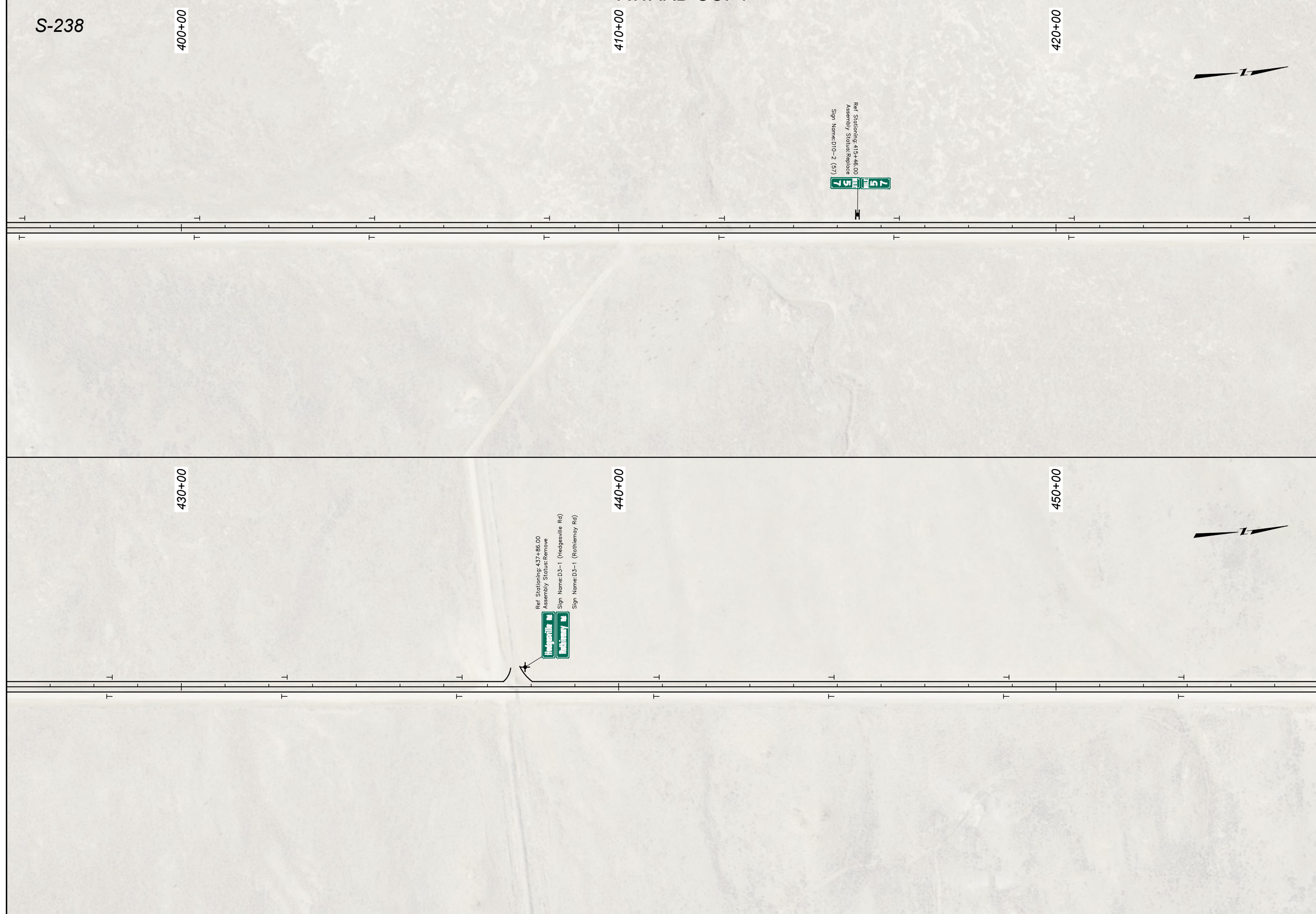
CHECKED BY	
N. STYREN	10/2025




MONTANA
Department of Transportation

SIGNING PLANS

3/12/2026 11:28 AM





 SIGNING PLANS		DESIGNED BY	PROJECT NAME	
		S. WATSON	S-238/S-300 - RYEGATE	
		REVIEWED BY	COUNTY	GOLDEN VALLEY
		CHECKED BY	PROJECT ID	STPS STWD(743)
		N. STYREN	UPN	9800000
		9800000SIPLN001.DWG		
		3/12/2026 11:28 AM		

SHEET NO.
S13


PLAN SHEET

S-238

SHEET NO.

S14

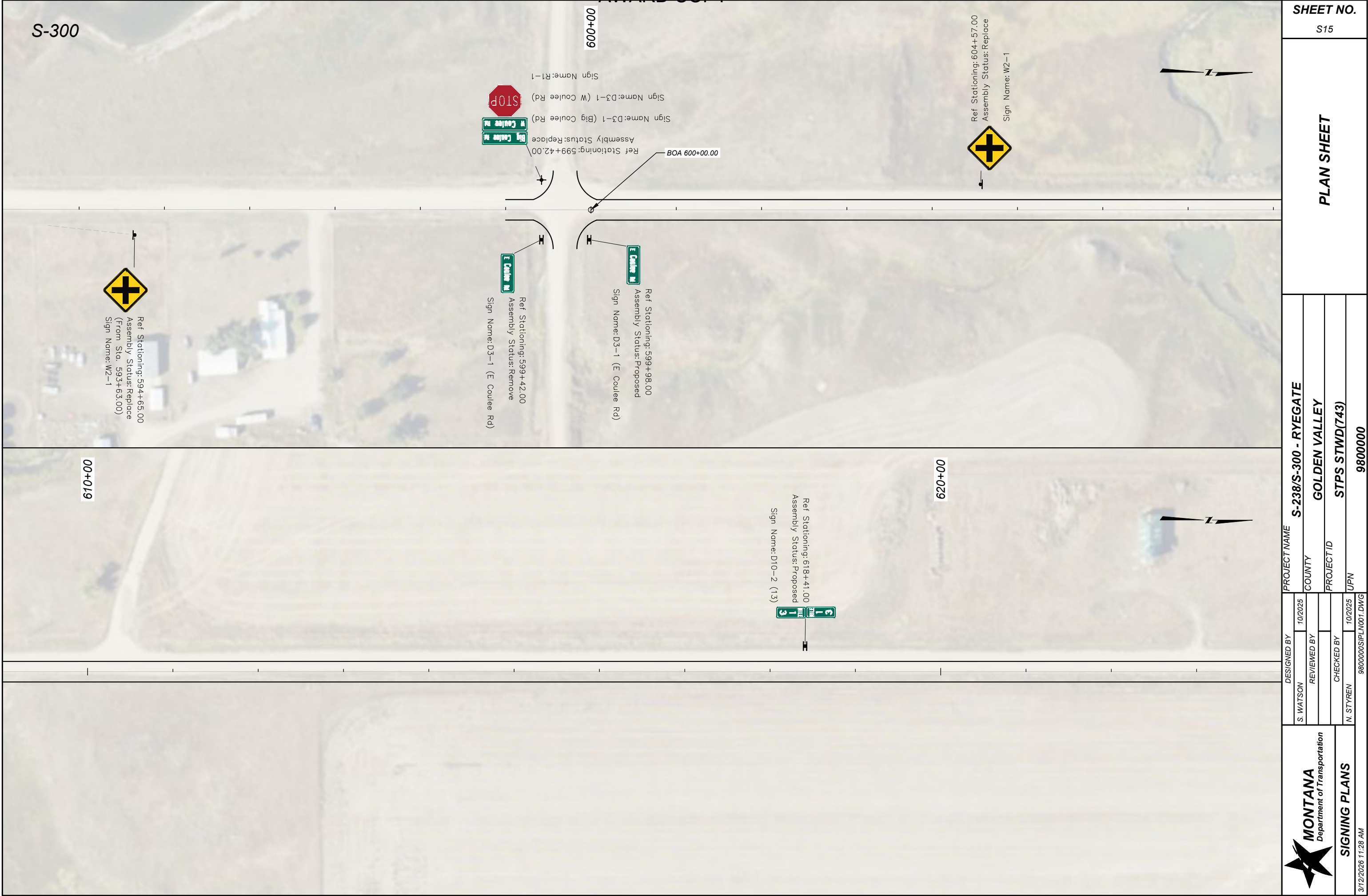
PLAN SHEET

 MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	
	S. WATSON	10/2025	S-238/S-300 - RYEGATE	
	REVIEWED BY		COUNTY	GOLDEN VALLEY
	CHECKED BY		PROJECT ID	STPS STWD(743)
SIGNING PLANS		N. STYREN	UPN	98000000
3/12/2026 11:28 AM		98000000SIPLN001.DWG		

508+40

EOA 508+40.00







S-300

660+00

SHEET NO.

S17

PLAN SHEET

S-238/S-300 - RYEGATE

GOLDEN VALLEY

STPS STWD(743)

980000

PROJECT NAME

COUNTY

PROJECT ID

UPN

9800000S/PLN001.DWG



MONTANA
Department of Transportation

SIGNING PLANS

3/12/2026 11:28 AM

S-300

690+00

SHEET NO.

S18

PLAN SHEET

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
S. WATSON

10/2025

REVIEWED BY

CHECKED BY
N. STYREN

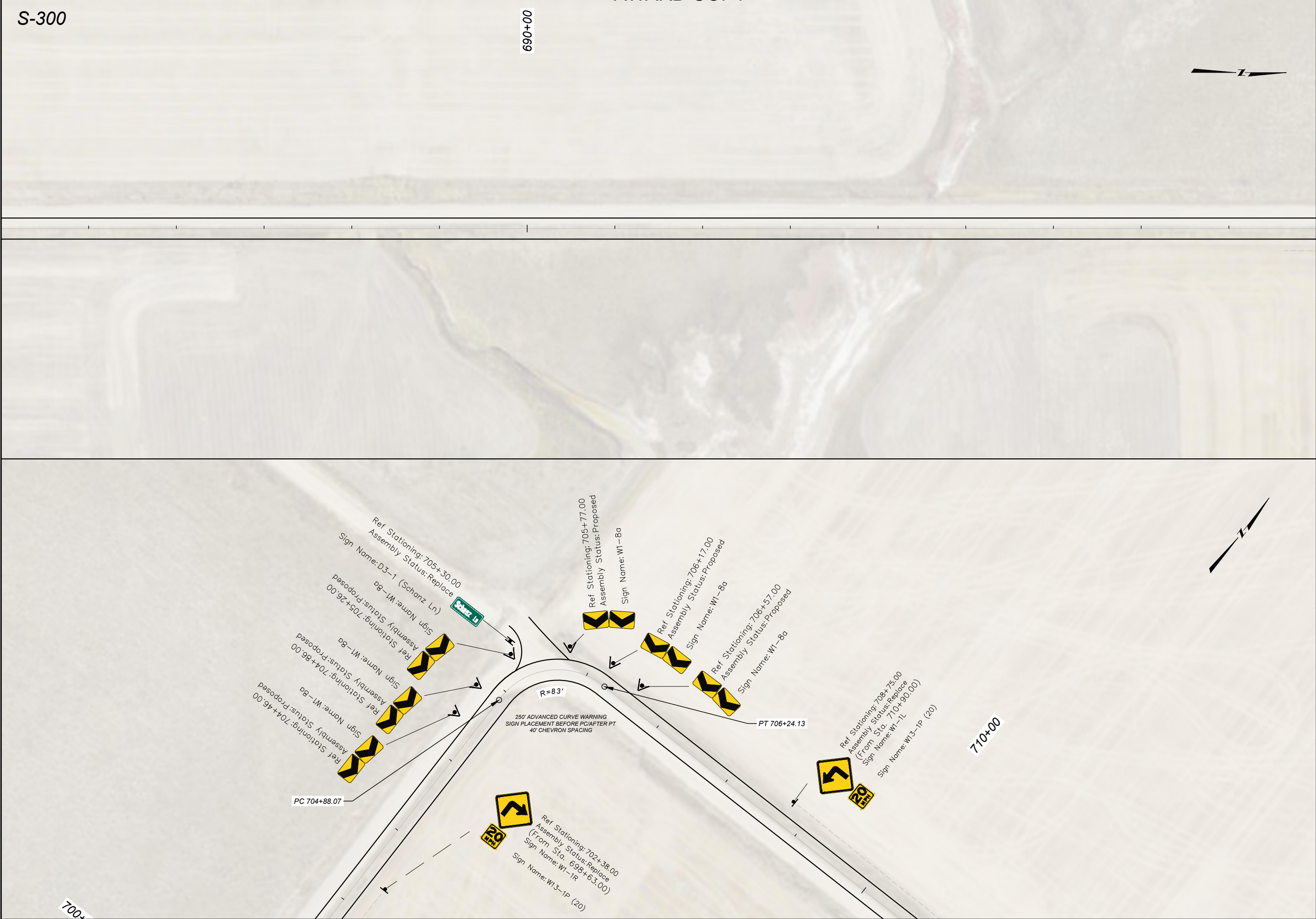
10/2025

9800000SIPLN001.DWG



SIGNING PLANS

3/12/2026 11:28 AM



S-300

720+00

Ref Stationing: 723+68.00
Assembly Status: Proposed
Sign Name: D10-2 (11)

SHEET NO.

S19

PLAN SHEET

S-238/S-300 - RYEGATE

GOLDEN VALLEY

STPS STWD(743)

9800000

PROJECT / NAME

COUNTY

PROJECT ID

UPN

9800000SIPLN001.DWG



SIGNING PLANS

3/12/2026 11:29 AM



 <div>MONTANA Department of Transportation</div>				DESIGNED BY		PROJECT NAME	
<div>SIGNING PLANS</div>				S. WATSON	10/2025	S-238/S-300 - RYEGATE	
				REVIEWED BY		COUNTY	GOLDEN VALLEY
				CHECKED BY		PROJECT ID	STPS STWD(743)
				N. STYREN	10/2025	UPN	98000000
3/12/2026 11:29 AM				9800000SIPLN001.DWG			

SHEET NO.
S20

PLAN SHEET

S-300

SHEET NO.

22

PLAN SHEET

S-238/S-300 - RYEGATE

GOLDEN VALLEY

STPS STWD(743)

980000

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

COUNTY

101

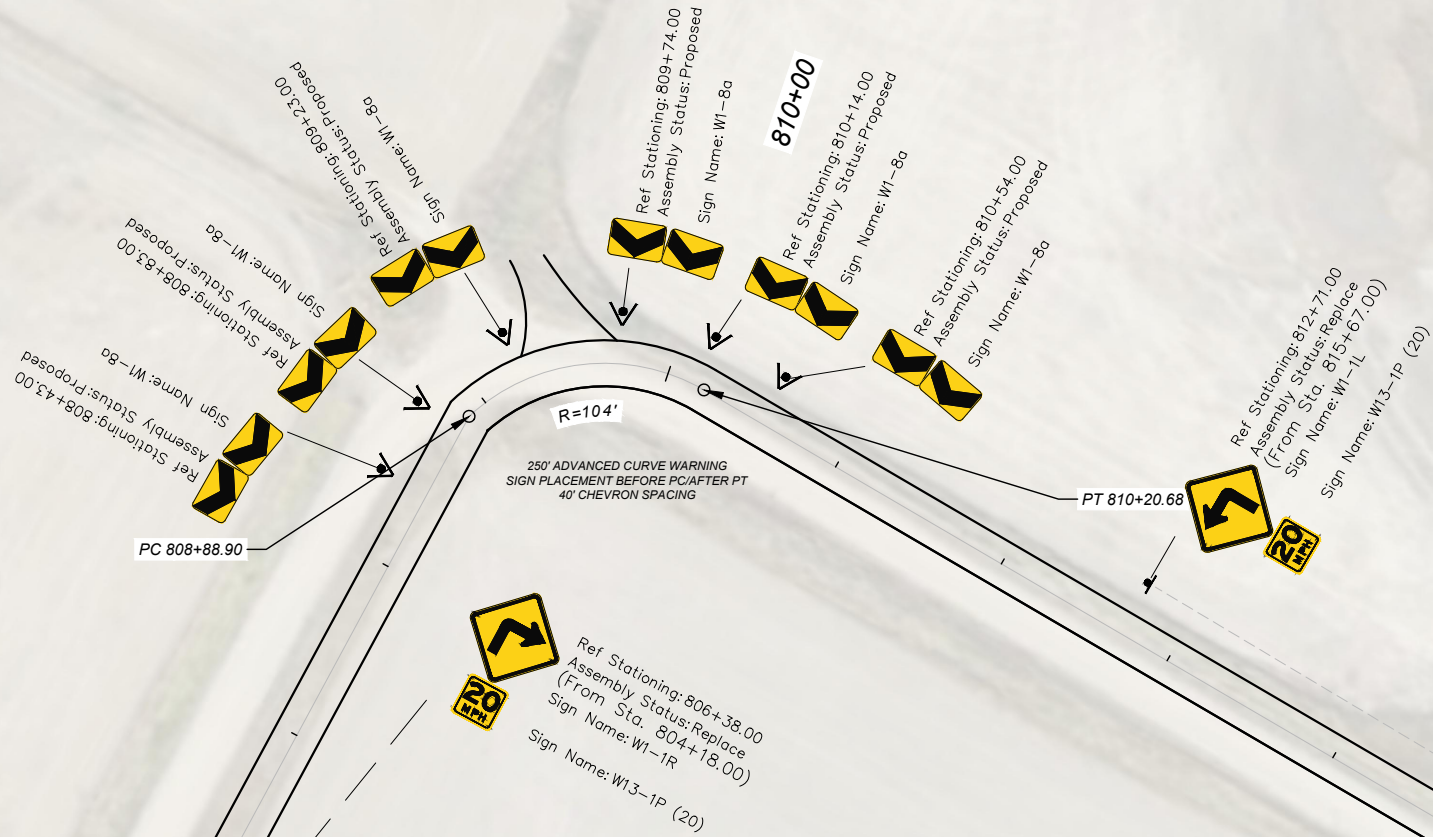
9800000S/PLN001.DWG

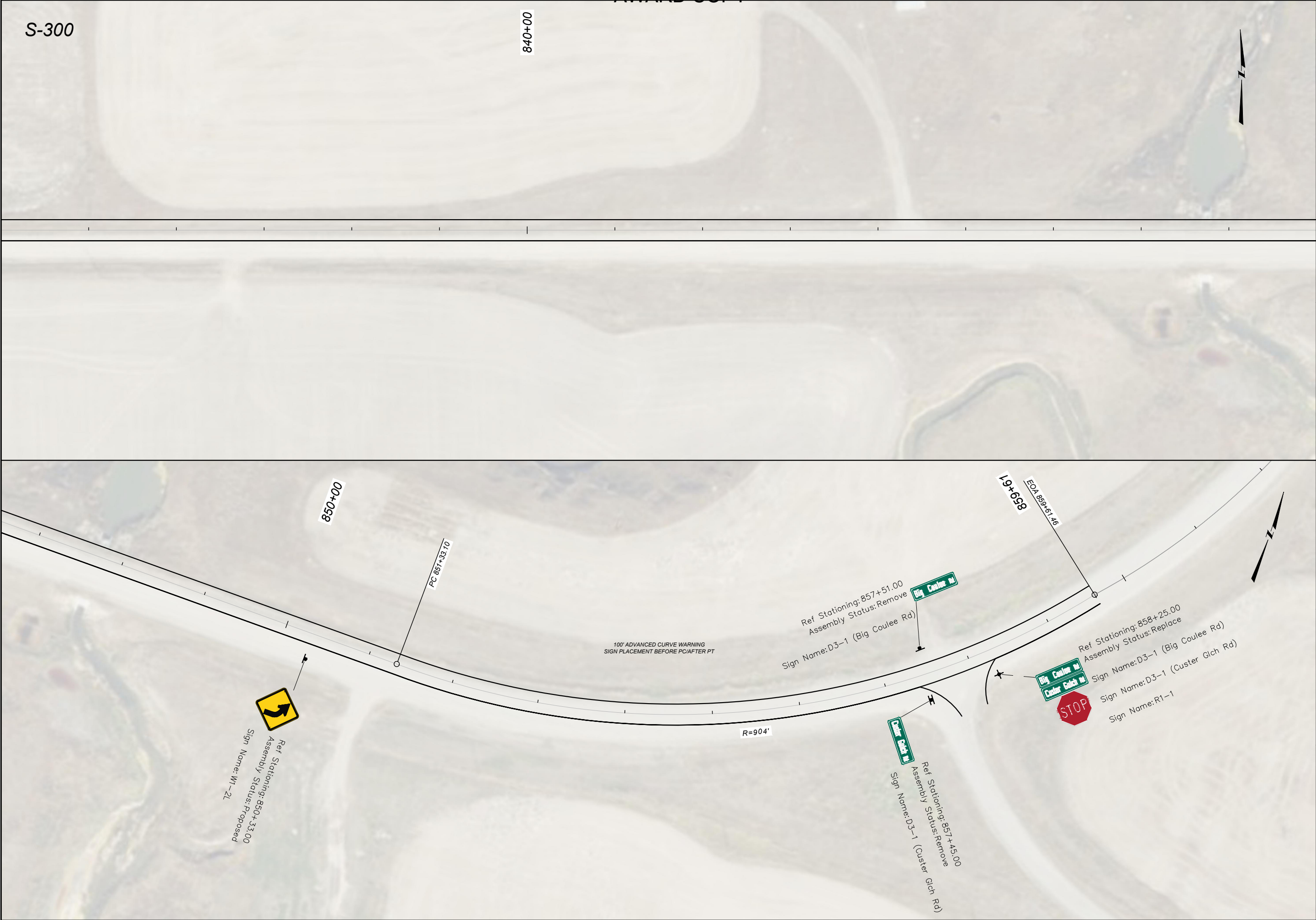


MONTANA
Department of Transportation

SIGNING PLANS

11/2/2026 11:29 AM





S-300

840+00

850+00

PC 857+33.10

858+00

EOA 859+61.46

R=904'

100' ADVANCED CURVE WARNING
SIGN PLACEMENT BEFORE PC/AFTER PT

Ref Stationing: 857+51.00
Assembly Status: Remove
Sign Name: D3-1 (Big Coulee Rd)

Big Coulee Rd

Ref Stationing: 858+25.00
Assembly Status: Replace
Sign Name: D3-1 (Big Coulee Rd)
Sign Name: D3-1 (Custer Glch Rd)
Sign Name: R1-1

Big Coulee Rd
Custer Glch Rd

STOP

Custer Glch Rd

Ref Stationing: 857+45.00
Assembly Status: Remove
Sign Name: D3-1 (Custer Glch Rd)

Ref Stationing: 850+33.00
Assembly Status: Proposed
Sign Name: W1-2L




SHEET NO.		S23	
PLAN SHEET		S-238/S-300 - RYEGATE	
PROJECT NAME		COUNTY	
PROJECT ID		GOLDEN VALLEY	
PROJECT ID		STPS STWD(743)	
UPN		9800000	
DESIGNED BY		10/2025	
S. WATSON		REVIEWED BY	
N. STYREN		10/2025	
CHECKED BY		9800000SIPLN001.DWG	
MONTANA Department of Transportation		SIGNING PLANS	
3/12/2026 11:29 AM			

S-300

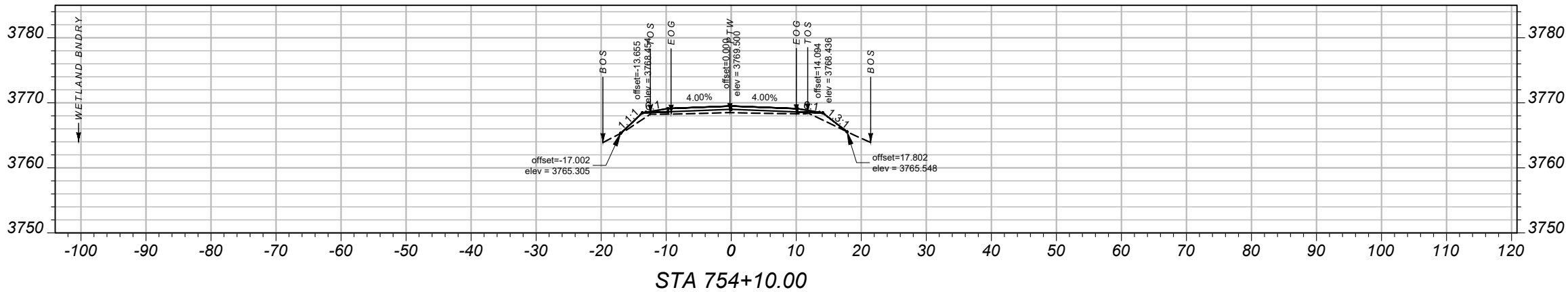
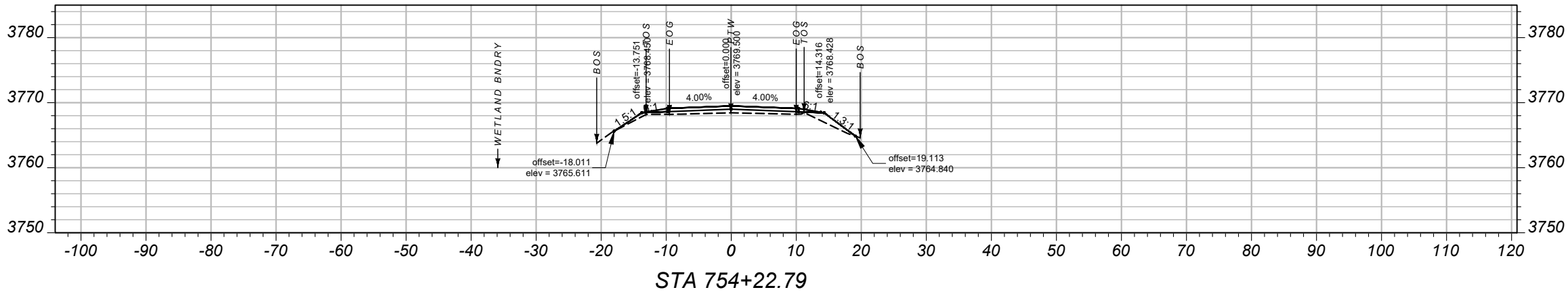
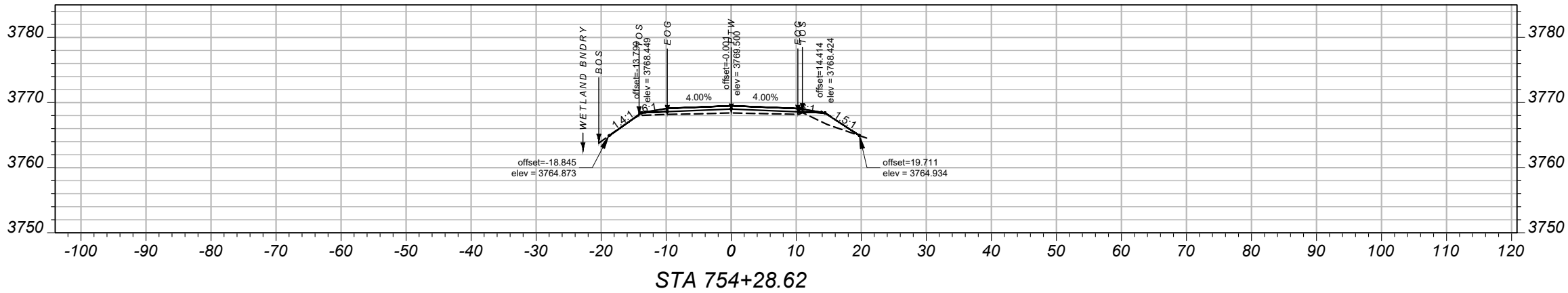
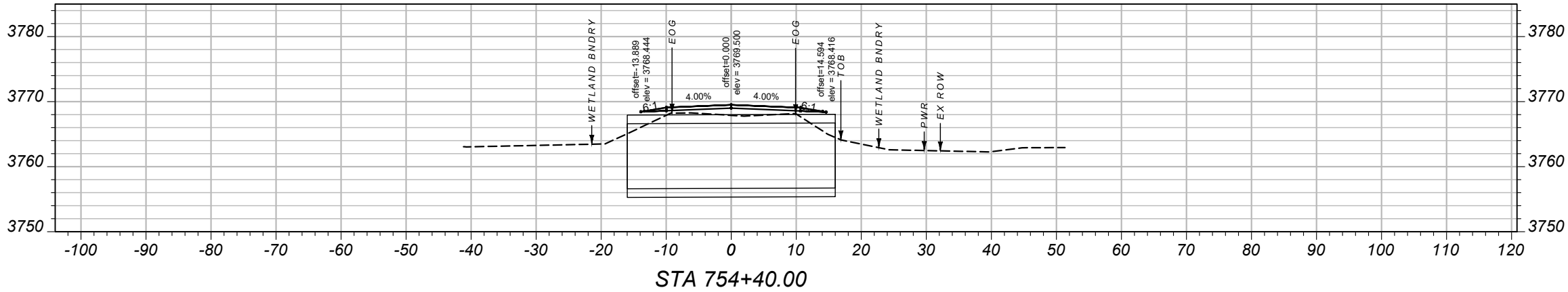
SHEET NO.

S24

PLAN SHEET

 MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	
	S. WATSON	10/2025	S-238/S-300 - RYEGATE	
	REVIEWED BY		COUNTY	GOLDEN VALLEY
	CHECKED BY		PROJECT ID	STPS STWD(743)
SIGNING PLANS		N. STYREN	UPN	9800000
3/12/2026 11:29 AM		98000000SIPLN001.DWG		





SHEET NO.

XS1

CROSS SECTIONS

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
C. HOPKINS

REVIEWED BY
K. SHUCK

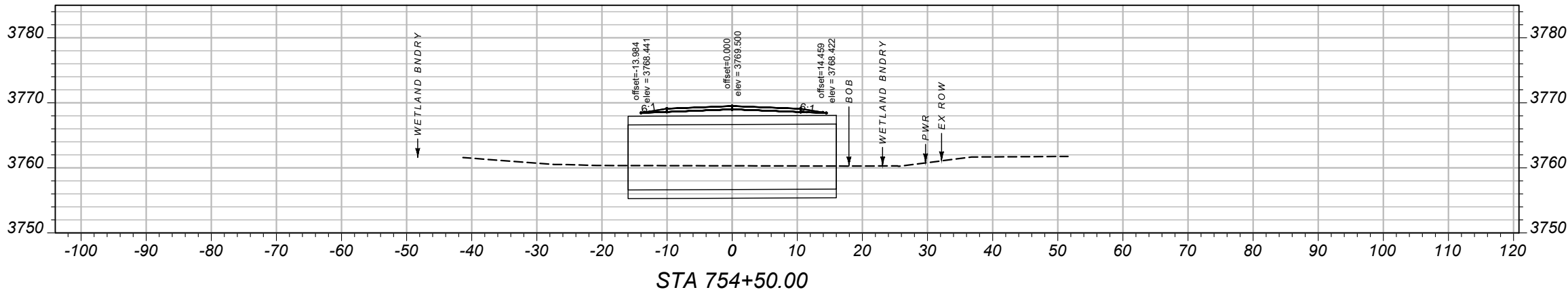
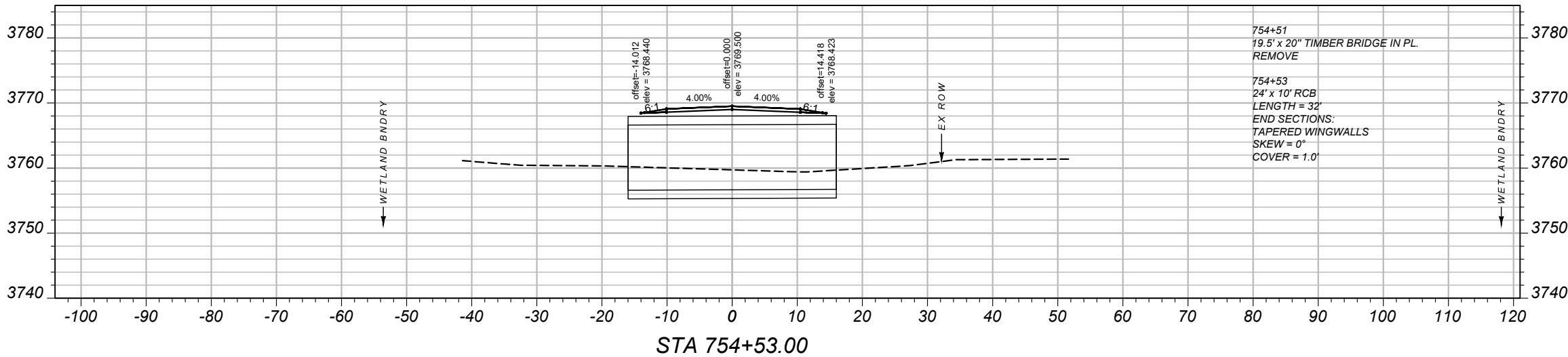
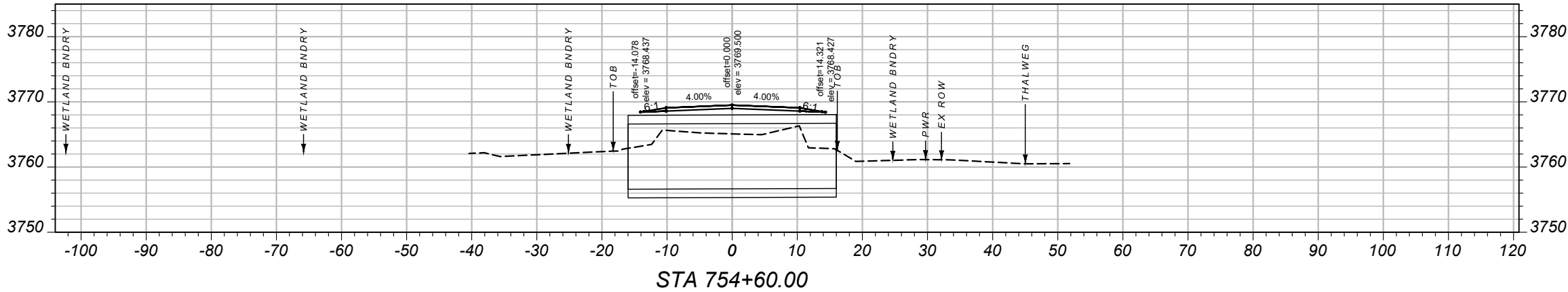
CHECKED BY
###

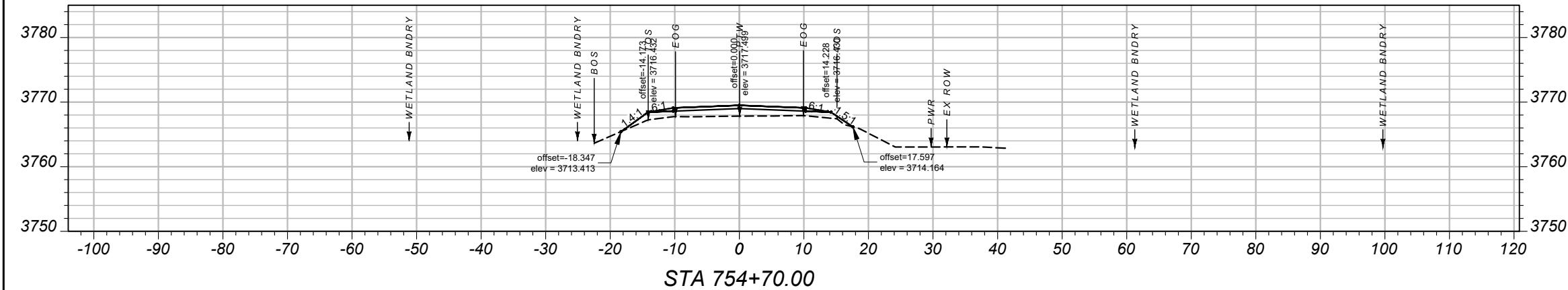
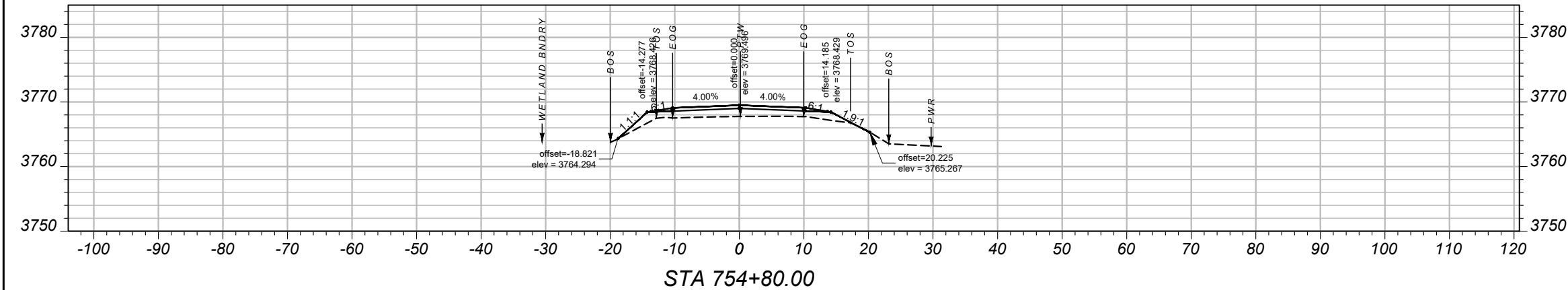
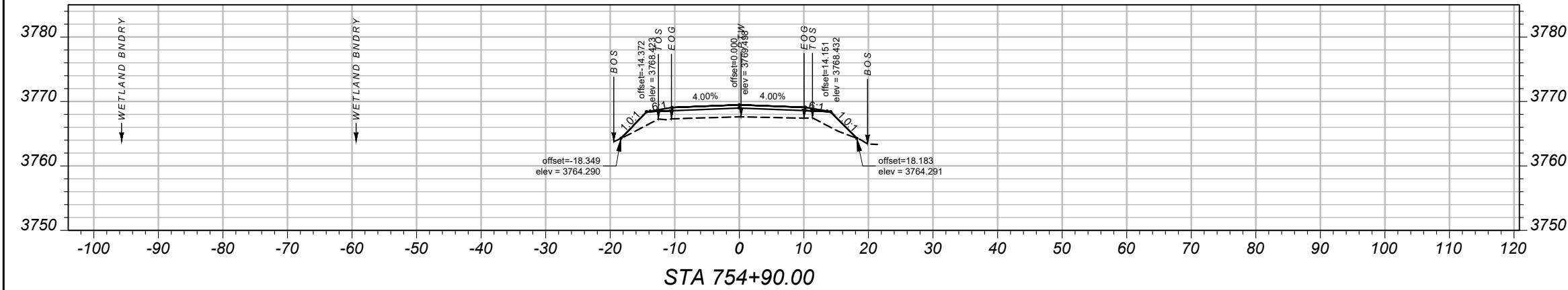
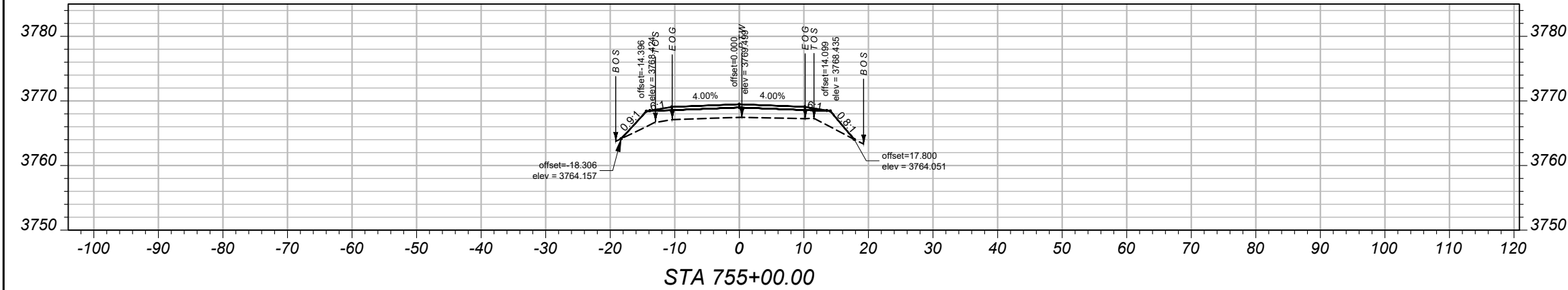
9800000RDXSF002.DWG



X- SECTIONS

2/20/2026 7:38 AM





SHEET NO.

XS3

CROSS SECTIONS

PROJECT NAME
S-238/S-300 - RYEGATE

COUNTY
GOLDEN VALLEY

PROJECT ID
STPS STWD(743)

UPN
9800000

DESIGNED BY
C. HOPKINS

REVIEWED BY
K. SHUCK

CHECKED BY
###

9800000RDXSF002.DWG



X- SECTIONS

2/20/2026 7:38 AM