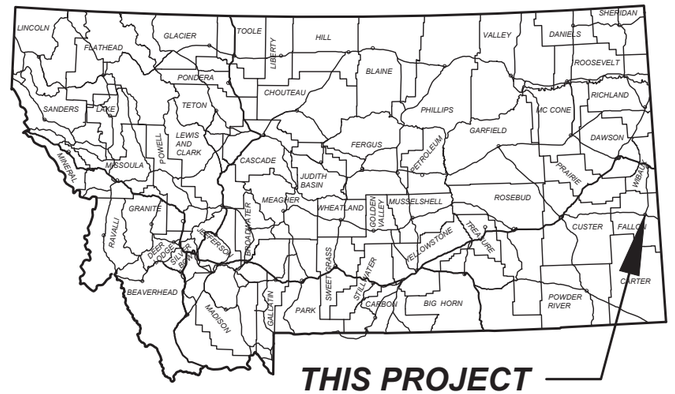
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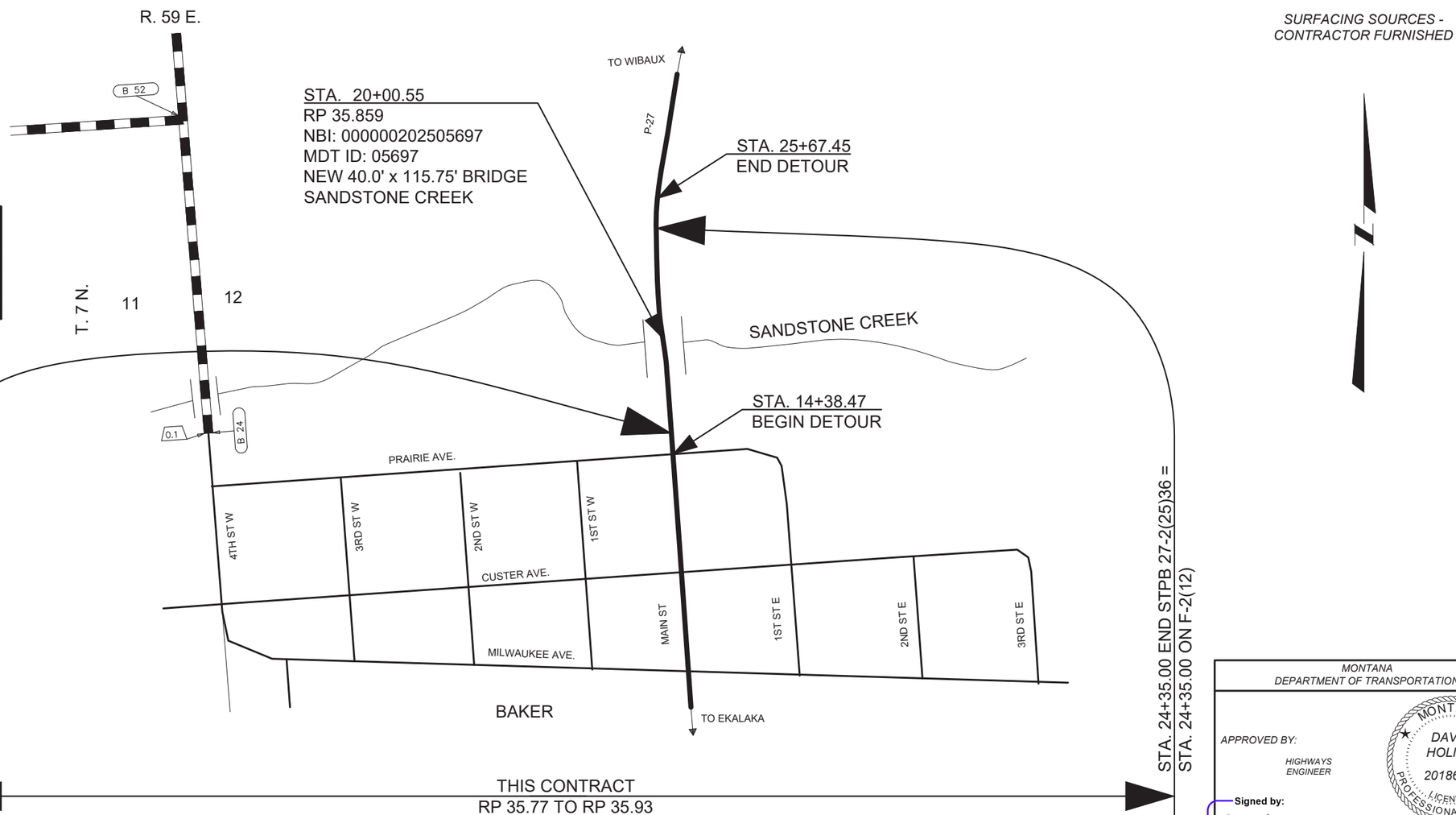
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPB 27-2(26)36
BRIDGE REPLACEMENT, SURFACING
SANDSTONE CREEK BRIDGE - BAKER
FALLON COUNTY

LENGTH 0.16 MILES

PROJECT DESIGN DATA			
PRESENT	2023	A.D.T. =	2,220
LETTING	2024	A.D.T. =	2,240
DESIGN	2044	A.D.T. =	2,730
		D.H.V. =	420
		TRUCKS =	7.3%
		V. =	45 mph
		18 KIP ESAL'S =	76 DAILY
		GROWTH RATE =	1.0% ANNUALLY

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	STPB 27-2(25)36



SURFACING SOURCES - CONTRACTOR FURNISHED

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

MONTANA
DAVID HOLIEN
20186PE
LICENSED PROFESSIONAL ENGINEER

Signed by: David Holien
4FA8874BB4E5415...

12/4/2025
DATE

MONTANA
Department of Transportation

ROAD DESIGN

10/20/2025 7:21 AM

DESIGNED BY	C. PERIMAN	09/2023	
REVIEWED BY			
CHECKED BY	J. SOLIDAY	03/2025	

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000
9682000RDTTL001.DWG

SHEET NO. 01

TITLE SHEET

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
HYDRATED LIME	= 1.4% OF PL. MIX BIT. SURF.
ASPHALT BINDER - COMMERCIAL 3/8" - 58H-34	= 6.2% OF PL. MIX BIT. SURF.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)

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.

CLEARING AND GRUBBING

CLEAR AND GRUB TO CONSTRUCTION LIMITS. INCLUDE THE COST OF CLEARING AND GRUBBING IN THE UNIT PRICE BID FOR UNCLASSIFIED EXCAVATION.

DO NOT DISTURB

GUYWIRE ANCHOR POLE STATION 16+50 OFFSET LEFT 73'.

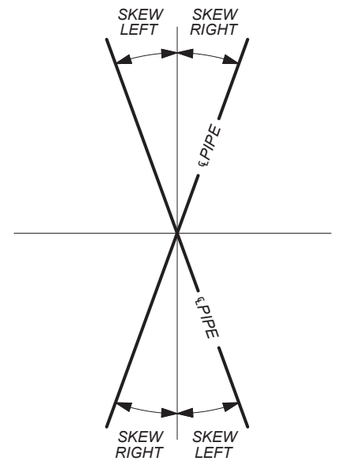
SOILS INFORMATION

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)

SKEW DIAGRAM



SHEET NO.
02

TABLE OF CONTENTS & NOTES

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY		DATE
C. PERIMAN		09/2023
REVIEWED BY		
CHECKED BY		03/2025
J. SOLIDAY		

9682000RDTTL001.DWG

MONTANA
Department of Transportation

ROAD DESIGN

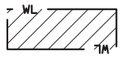
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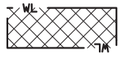
NOTES

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



TEMPORARY WETLAND IMPACT AREAS

WETLAND DELINEATION TABLE

WETLAND DESIGNATION	STATION		WETLAND AREA (acres)			REMARKS
			DELINEATED AREA	TEMPORARY IMPACTED AREA ◆	PERMANENT IMPACTED AREA	
	FROM	TO				
SITE 1	16+66	19+85	0.279	0.028	0.186	LEFT & RIGHT
SITE 2	19+85	20+08	0.035	0.010	0.007	LEFT & RIGHT
TOTAL			0.31	0.04	0.19	

TEMPORARY WETLAND IMPACTS SHOWN IN THE TABLE AND ANY OTHER IMPACTS ASSOCIATED WITH CONTRACTOR OPERATIONS ARE TO BE PERMITTED BY CONTRACTOR.

◆ *TEMPORARY IMPACT AREAS ARE ESTIMATED AND PROVIDED FOR INFORMATIONAL PURPOSES ONLY.*

APPROACHES *(FOR INFORMATION ONLY)*

STATION	TYPE	linear feet				EXISTING SURFACING	feet		PROPOSED SURFACE	tons	cu. yards	gallons	REMARKS
		WIDTH	RADIUS ◆		LENGTH ■		PMS THK.	CAC THK.		COMMERCIAL PLANT MIX-MISC.	CRUSHED AGG. COURSE	EMULS. ASPHALT TACK	
			LEFT	RIGHT									
23+90	FARM FIELD	24	25	25	57.0	GRAVEL	0.2	0.5		8	42	3	LT.
SUBTOTAL	FARM FIELD	~	~	~	~	~	~	~	~	8	42	3	~

APPROACHES NOT INCLUDED IN THIS LIST ARE USE IN PLACE

◆ *ALL RADII MEASURED TO FRONT OF GUTTER OR EDGE OF ASPHALT*

■ *MEASURED ON CAD*

CENTERLINE COORDINATE TABLE

CENTERLINE ALIGNMENT COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
13+00.00	POT	817,398.931	3,285,702.051	
14+38.47	POT	817,537.075	3,285,692.533	BEGIN DETOUR
15+65.00	POT	817,663.304	3,285,683.835	BEGIN STPB 27-2(26)36
21+56.43	PC	818,253.333	3,285,643.180	
24+35.00	POC	818,531.602	3,285,630.792	END STPB 27-2(26)36
25+67.45	POC	818,664.047	3,285,629.650	END DETOUR
28+43.00	PI	818,938.281	3,285,595.984	
35+23.06	PT	819,614.989	3,285,711.943	
40+00.00	POT	820,085.081	3,285,792.497	

ALIGNMENT NAME: 9682000_RD_PA_MAINLINE PROFILE NAME: 9682000_RD_PP_MAINLINE

SHEET NO. 03

NOTES & CENTERLINE COORDINATE TABLE

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER

COUNTY FALLON COUNTY

PROJECT ID STPB 27-2(26)36

UPN 9682000

DESIGNED BY C. PERIMAN 09/2023

REVIEWED BY

CHECKED BY J. SOLIDAY 03/2025

9682000RDTTL001.DWG

MONTANA Department of Transportation

ROAD DESIGN

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CONTROL DIAGRAM

SCALE: N/A

NOTE:

BEARING SOURCE - 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 0.99931669.

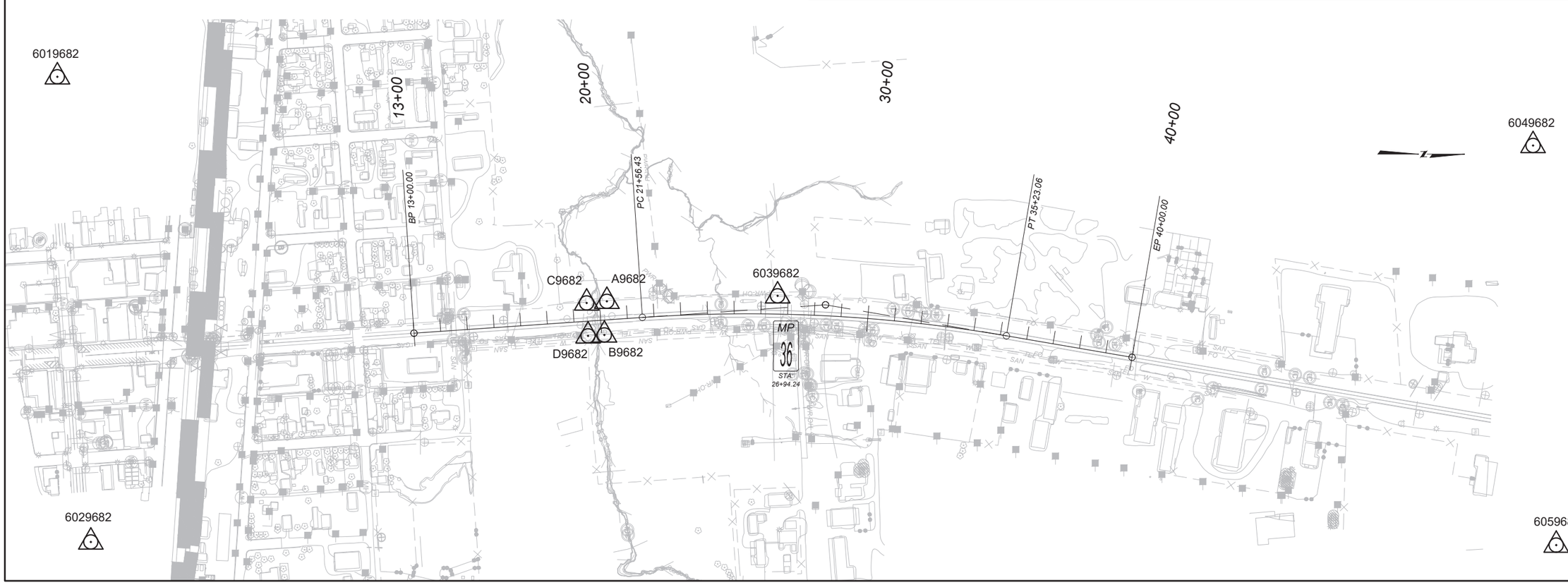
LEVEL DATUM SOURCE - NAVD 88 ELEVATIONS DERIVED FROM DIFFERENTIAL LEVELS HOLDING NGS GNSS DERIVED ELEVATION AT A9682.

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
6019682	816,064.594	3,284,743.143	2923.35	6019682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "6019682 2019" WITH WITNESS POST 3.0' N OF CAP, ON THE NE SIDE OF THE INTERSECTION OF MONTANA AVE AND 3RD STREET W, 36.5' N OF MONTANA AVE PTW, 67' E OF 3RD ST PTW, 23' NE OF A PED XING SIGN, 13' NW OF BAKER REC VEHICLE CAMPGROUND SIGN, 6' N OF SIDEWALK. N 46-22-4.8" W 104-16-46.3"
6029682	816,189.904	3,286,483.085	2944	6029682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "6029682 2019" NEAR THE INT OF MONTANA AVE AND 2ND STREET E ON THE NW SIDE, 4.8' N OF SIDEWALK 32' W OF 2ND ST, 21' NW OF LIGHT POLE, 29.6' SE OF OLD SCHOOL BUILDING CORNER. N 46-22-05.0" W 104-16-21.0"
C9682	818,044.835	3,285,589.187	2925.15	C9682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "C9682 2019" WITH WITNESS POST 3.0' W OF CAP, ON WEST SIDE OF HWY 7, 53' W OF GUARDRAIL, 3' E OF N-S FENCELINE, 30' S OF SANDSTONE CREEK, ON SW SIDE OF BRIDGE. N 46-22-23.8" W 104-16-32.4"
D9682	818,049.864	3,285,711.987	2926.12	D9682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "D9682 2019" WITH WITNESS POST 3.0' E OF CAP, ON E SIDE OF HWY 7, 7.5' W OF FENCE CORNER IN LINE WITH FENCE TO THE EAST, 40' S OF SANDSTONE CREEK, ON SE SIDE OF BRIDGE. N 46-22-23.7" W 104-16-30.7"

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
B9682	818,111.033	3,285,708.780	2923.43	B9682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "B9682 2019" WITH WITNESS POST 3.0' E OF CAP, ON E SIDE OF HWY 7, 43' E OF EDGE OF PAVEMENT, 5' W OF N-S FENCELINE, 25' N OF SANDSTONE CREEK, ON NE SIDE OF BRIDGE. N 46-22-24.3" W 104-16-30.4"
A9682	818,120.386	3,285,582.923	2924.34	A9682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "A9682 2019" WITH WITNESS POST 3.0' W OF CAP, ON WEST SIDE OF HWY 7, 56' W OF GUARDRAIL, 3' E OF N-S FENCELINE, ON NW SIDE OF BRIDGE. N 46-22-24.5" W 104-16-32.4"
6039682	818,759.169	3,285,562.288	2925.84	6039682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "6039682 2019" WITH WITNESS POST 3.5' E OF CAP IN FENCELINE, ON W SIDE OF HWY 7 AT MM 36, 3.5'E OF N-S FENCELINE, 14.5' N OF "T" FENCE CORNER. N 46-22-30.8" W 104-16-32.1"
6049682	821,584.911	3,285,000.196	2935.06	6049682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "6049682 2019" WITH WITNESS POST 3.0' N OF CAP, 0.19 MI W OF INTERSECTION OF HWY 7 AND PENNEL RD, ON N SIDE OF GRAVEL ROAD 53' N OF EDGE OF GRAVEL. N 46-22-58.9" W 104-16-37.3"
6059682	821,671.680	3,286,494.817	2948.3	6059682 SET A 2" MDT A.C. ON 5/8"X30" REBAR STAMPED "6059682 2019" WITH WITNESS POST 3.0' NW OF CAP AT THE SE SIDE OF THE MDT MAINTENANCE YARD 7' W OF N-S FENCELINE, 65.5' N OF SHELL OIL RD PTW, 40' NNW OF FENCE CORNER, POINT IS 0.085 MI EAST OF THE INTERSECTION OF HWY 7 AND SHELL OIL ROAD E OF THE APPROACH FOR THE MAINTENANCE YARD. N 46-22-59.0" W 104-16-16.1"



SHEET NO.
04

CONTROL DIAGRAM

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY		CHECKED BY	
C. PERIMAN	09/2023	J. SOLIDAY	03/2025
REVIEWED BY		9682000RDTRV001.DWG	

MONTANA
Department of Transportation

ROAD DESIGN

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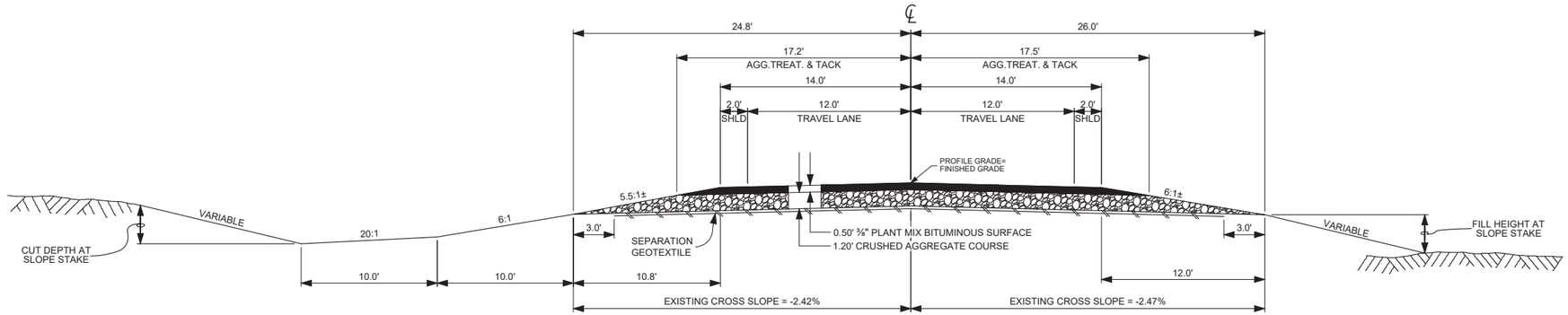
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TYPICAL SECTION NO. 1

MAINLINE

15+65.00 TO 17+41.21 TRANS. TO TYP. 2



QUANTITIES						
UNIT	AGGREGATE		UNIT	BIT. MATL.	AGGREGATE TREATMENT	GEOTEXTILE
	PLANT MIX ⅜"	CRUSHED AGG. COURSE		EMULSIFIED ASPHALT TACK▲		
AREA square feet	15.68	51.30	square yards PER STATION	1,157	386	498
cubic yards PER STATION	58.1	190.0	tons PER STATION			
tons PER STATION	112.0		gals PER STATION	58		
square yards PER STATION						

▲ BASED ON 3 APPLICATIONS

* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
OVER 20'	3:1

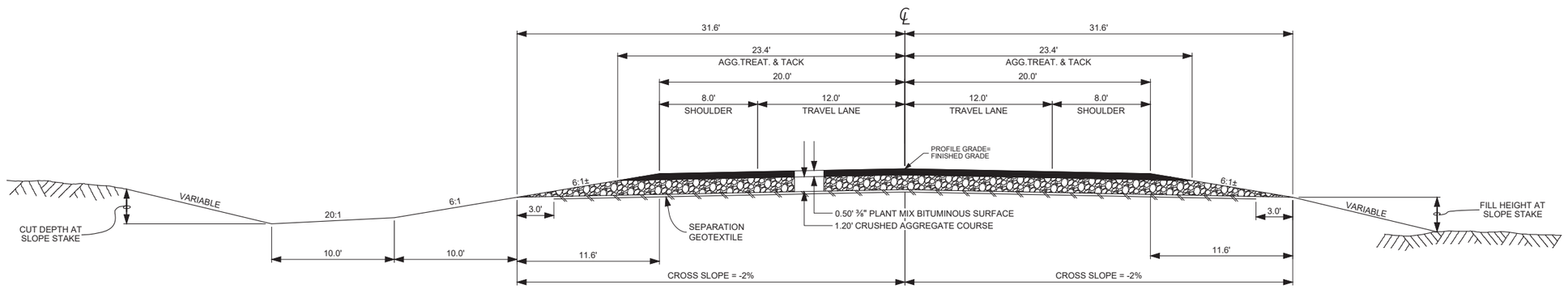
*BACK SLOPE	
0' - 5'	5:1
5' - 10'	4:1
OVER 10'	3:1

* SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 2

MAINLINE

17+41.21 TO 19+42.71 B.E.
20+58.38 B.E. TO 20+64.88
20+64.88 TO 20+99.73 TRANS. TO TYP. 3 (3% RT. REDUCED RUNOUT)



QUANTITIES						
UNIT	AGGREGATE		UNIT	BIT. MATL.	AGGREGATE TREATMENT	GEOTEXTILE
	PLANT MIX ⅜"	CRUSHED AGG. COURSE		EMULSIFIED ASPHALT TACK▲		
AREA square feet	21.70	66.00	square yards PER STATION	1,560	520	636
cubic yards PER STATION	80.4	244.4	tons PER STATION			
tons PER STATION	155.0		gals PER STATION	78		
square yards PER STATION						

▲ BASED ON 3 APPLICATIONS

SHEET NO. 05

TYPICAL SECTIONS

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY C. PERIMAN 09/2023
REVIEWED BY
CHECKED BY J. SOLIDAY 03/2025
9682000RDTYP001.DWG

MONTANA Department of Transportation
ROAD DESIGN
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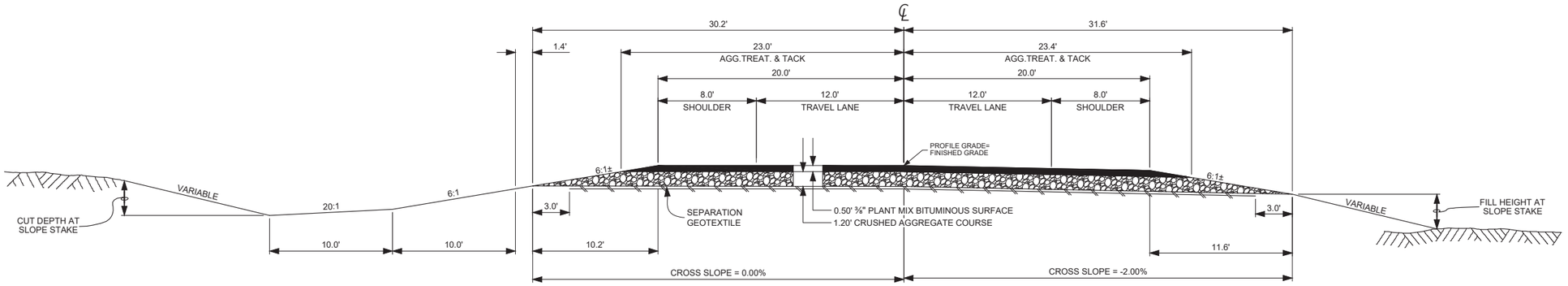
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TYPICAL SECTION NO. 3

MAINLINE

20+99.73 TO 21+80.73 TRANS. TO TYP. 4 (3% RT. STANDARD RUNOFF)



QUANTITIES						
UNIT	AGGREGATE		UNIT	BIT. MATL.	AGGREGATE TREATMENT	GEOTEXTILE
	PLANT MIX ⅜"	CRUSHED AGG. COURSE		EMULSIFIED ASPHALT TACK▲		
AREA square feet	21.60	64.92	square yards PER STATION	1,547	516	620
cubic yards PER STATION	80.0	240.4	tons PER STATION			
tons PER STATION	154.2		gals PER STATION	77		
square yards PER STATION						

▲ BASED ON 3 APPLICATIONS

* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
OVER 20'	3:1

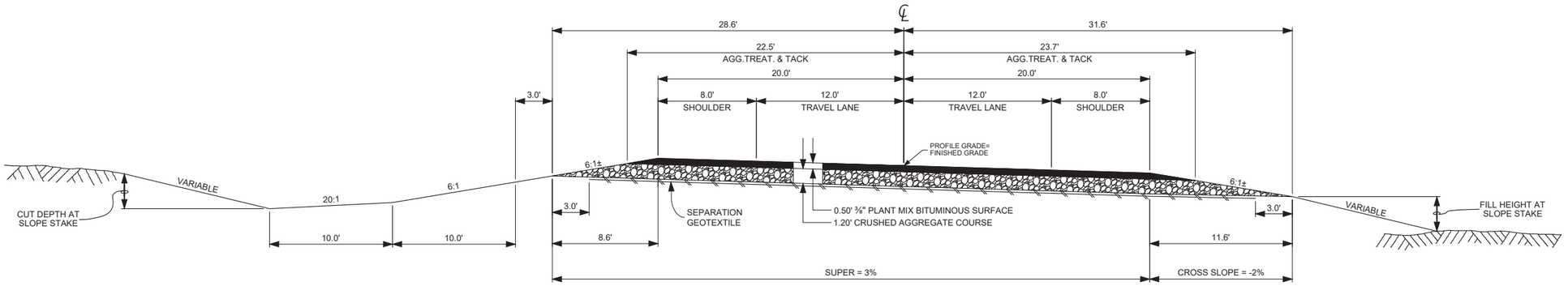
*BACK SLOPE	
0' - 5'	5:1
5' - 10'	4:1
OVER 10'	3:1

* SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 4

MAINLINE

21+80.73 TO 22+59.88 3% RT.
22+59.88 TO 24+35.00 TRANS. TO TYP. 5



QUANTITIES						
UNIT	AGGREGATE		UNIT	BIT. MATL.	AGGREGATE TREATMENT	GEOTEXTILE
	PLANT MIX ⅜"	CRUSHED AGG. COURSE		EMULSIFIED ASPHALT TACK▲		
AREA square feet	21.55	63.84	square yards PER STATION	1,540	513	602
cubic yards PER STATION	79.8	236.4	tons PER STATION			
tons PER STATION	153.8		gals PER STATION	77		
square yards PER STATION						

▲ BASED ON 3 APPLICATIONS

SHEET NO. 06

TYPICAL SECTIONS

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY C. PERIMAN 09/2023
REVIEWED BY
CHECKED BY J. SOLIDAY 03/2025
9682000RDTYP001.DWG

MONTANA Department of Transportation
ROAD DESIGN
3/11/2025 11:42 AM

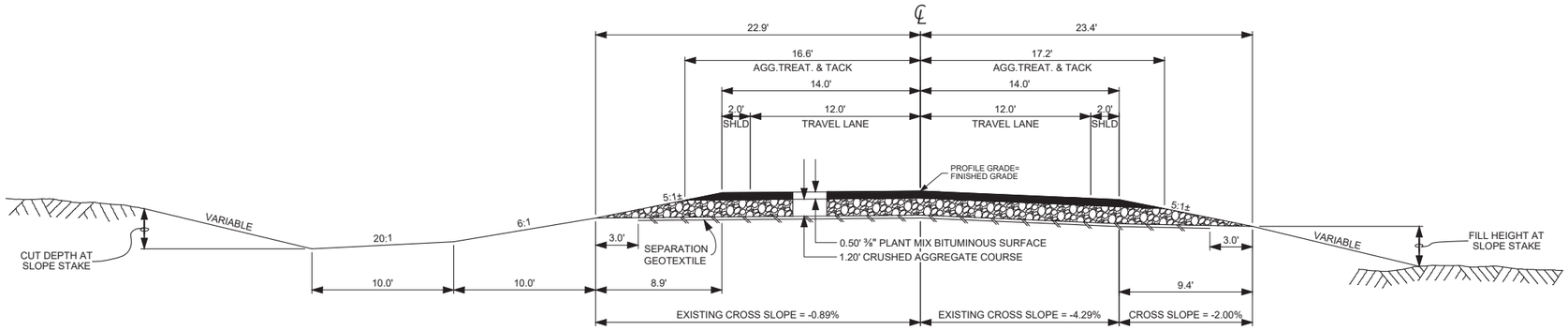
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TYPICAL SECTION NO. 5

MAINLINE

24+35.00 ONLY



QUANTITIES

UNIT	AGGREGATE		UNIT	BIT. MATL.	AGGREGATE TREATMENT	GEOTEXTILE
	PLANT MIX ⅜"	CRUSHED AGG. COURSE		EMULSIFIED ASPHALT TACK▲		
AREA square feet	15.45	48.06	square yards PER STATION	1,127	376	448
cubic yards PER STATION	57.2	178.0	tons PER STATION			
tons PER STATION	110.2		gals PER STATION	56		
square yards PER STATION						

▲ BASED ON 3 APPLICATIONS

* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
OVER 20'	3:1

*BACK SLOPE	
0' - 5'	5:1
5' - 10'	4:1
OVER 10'	3:1

* SEE CROSS SECTIONS FOR DEVIATIONS

SHEET NO. 07

TYPICAL SECTIONS

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 09/2023
REVIEWED BY:
CHECKED BY: J. SOLIDAY 03/2025

MONTANA Department of Transportation
ROAD DESIGN

3/11/2025 11:42 AM 9682000RDTYP001.DWG

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GRADING

STATION	cu. yards			REMARKS
	UNCL. EXC.	EXCESS EXC.	EMB.+	
15+65.00				
	3,791	1,878	1,913	MAINLINE TEMPLATE
24+35.00				
	20		95	ADDITIONAL GRADING
TOTAL	3,811	# 1,878	# 2,008	

FOR INFORMATION ONLY

ADDITIONAL GRADING (INCLUDED IN GRADING FRAME)

STATION		cu. yards INCL. IN GRADING		REMARKS
FROM	TO	UNCL. EXC.	EMB.+	
15+65.00	24+35.00	~	~	TOPSOIL REPLACEMENT ▼
23+90.00		20	95	FARM FIELD APPROACH - LT.
SUBTOTAL		20	95	

▼ INCLUDED IN MAINLINE TEMPLATE

TOPSOIL & SEEDING

STATION		cu. yards	acres					REMARKS
		TOPSOIL SALVAGING & PLACING	SEED			MULCH	CONDITION SEEDBED ◆	
FROM	TO		NO. 1	NO. 2	NO.3			
15+65.00	24+35.00	744	2.0	0.2	0.5	0.2	2.5	
TOTAL		744	2.0	0.2	0.5	0.2	~	

◆ FOR INFORMATION ONLY

SHEET NO. 08

SUMMARIES

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER

COUNTY FALLON COUNTY

PROJECT ID STPB 27-2(26)36

UPN 9682000

DESIGNED BY C. PERIMAN 09/2023

REVIEWED BY

CHECKED BY J. SOLIDAY 03/2025

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MONTANA Department of Transportation

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SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE tons COMMERCIAL MIX - 3/8 IN - PG 58H-34	AGGREGATE tons COMMERCIAL PLANT MIX - MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards SHOULDER GRAVEL	BIT. MATL. gals. EMULSIFIED ASPHALT TACK - COAT	sq. yards AGGREGATE TREATMENT	sq. yards GEOTEXTILE STABILIZATION HIGH SURV.	REMARKS
15+65.00	17+41.21	176.21	176.21				235		383		120	798	999	TRANS. TYP. 1 TO TYP. 2
17+41.21														
19+42.71 B.E.	20+58.38 B.E.				115.67	SANDSTONE CREEK BRIDGE								
	20+64.88	323.67	208.00				322		508		162	1,082	1,323	TYP. 2
20+64.88	20+99.73	34.85	34.85				54		84		27	181	219	TRANS. TYP. 2 TO TYP. 3
20+99.73	21+80.73	81.00	81.00				125		193		62	417	495	TRANS. TYP. 3 TO TYP. 4
21+80.73	22+59.88	79.15	79.15				122		187		61	406	476	TYP. 4
22+59.88	24+35.00	175.12	175.12				231		363		116	778	919	TRANS. TYP. 4 TO TYP. 5
						ADDITIONAL SURFACING	8	8	42	44	3			
TOTAL		**870.00**	**754.33**		**115.67**		**1,097**	**8**	**1,760**	**44**	**551**	**3,662**	**4,431**	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE tons COMMERCIAL MIX - 3/8 IN - PG 58H-34	AGGREGATE tons COMMERCIAL PLANT MIX - MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards SHOULDER GRAVEL	BIT. MATL. gals. EMULSIFIED ASPHALT TACK - COAT	sq. yards AGGREGATE TREATMENT	sq. yards GEOTEXTILE STABILIZATION HIGH SURV.	REMARKS
17+52.25	19+41.21 B.E.					GUARDRAIL WIDENING RT.	2			13				INCLUDES WIDENING FOR EMB. PROT.
18+42.25	19+41.21 B.E.					GUARDRAIL WIDENING LT.	2			9				INCLUDES WIDENING FOR EMB. PROT.
20+59.88 B.E.	22+48.84					GUARDRAIL WIDENING LT.	2			12				INCLUDES WIDENING FOR EMB. PROT.
20+59.88 B.E.	21+58.84					GUARDRAIL WIDENING RT.	2			10				INCLUDES WIDENING FOR EMB. PROT.
						1-FARM FIELD APPROACH		8	42		3			
TOTAL		~	~	~	~		**8**	**8**	**42**	**44**	**3**	~	~	

SHEET NO. 09

SUMMARIES

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY C. PERIMAN 09/2023
REVIEWED BY
CHECKED BY J. SOLIDAY 03/2025

MONTANA Department of Transportation
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GUARDRAIL

STATION		linear feet				each				REMARKS
		REMOVE GUARDRAIL		BOX BEAM GUARDRAIL		MASH BOX BEAM TERMINAL - MBEAT		BOX BEAM BRIDGE APPROACH SECTION TYPE 4 ■		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
18+50.83	19+50.83 B.E.		100.0							
17+52.25	17+64.19						1			
17+64.19	18+90.19				126.0					
18+90.19	19+41.21 B.E.								1	
18+50.83	19+50.83 B.E.	100.0								
18+42.25	18+54.19					1				
18+54.19	18+90.19			36.0						
18+90.19	19+41.21 B.E.							1		
20+15.16 B.E.	21+15.16		100.0							
20+59.88 B.E.	21+10.90								1	
21+10.90	21+46.90				36.0					
21+46.90	21+58.84						1			
20+15.16 B.E.	21+15.16	100.0								
20+59.88 B.E.	21+10.90							1		
21+10.90	22+36.90			126.0						
22+36.90	22+48.84					1				
SUBTOTAL		200.0	200.0	162	162	2	2	2	2	
TOTAL		400.0		324		4		4		

■ TAPER THE FACE OF RAIL AT A RATE OF 72:1 FROM THE B.E. (FACE OF RAIL OFFSET OF 19'-9") TO THE FIRST GUARDRAIL JOINT (FACE OF RAIL OFFSET OF 20').

DETOUR ▲

STATION		lump sum	REMARKS
FROM	TO		
14+38.47	25+67.45	1	
TOTAL		1	

▲ SEE DETAIL

REMOVE STRUCTURE

STATION	lump sum REMOVE STRUCTURE	REMARKS
19+81.50	1.0	BRIDGE (NBI: P00027035+08231 - MDT STRUCTURE ID: 05697)
TOTAL	1	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	6		6
STRIPING - YELLOW PAINT	gallon	6		6
STRIPING - WHITE EPOXY	gallon		8	8
STRIPING - YELLOW EPOXY	gallon		8	8

BASED ON 1 APPLICATION

SHEET NO. 10

SUMMARIES

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER

COUNTY FALLON COUNTY

PROJECT ID STPB 27-2(26)36

UPN 9682000

DESIGNED BY C. PERIMAN 09/2023

REVIEWED BY

CHECKED BY J. SOLIDAY 03/2025

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MONTANA Department of Transportation

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FENCING

STATION		linear feet			each			linear feet	REMARKS
		FARM FENCE		TEMP. FENCE	FARM FENCE PANEL		DEADMAN	FARM GATE	
		TYPE F-5(M)	TYPE F-4(M)		SINGLE	DOUBLE			
FROM	TO				FM	FM		TYPE G2	
15+29.50	19+47.20	423			1	3	2		RT.
18+50.60	26+47.80		791	455	6	4	3		LT.
23+90.00								16	LT.
TOTAL		423	791	455	7	7	5	16	

BRIDGE END BACKFILL

STATION		cu. yards	sq. yards	REMARKS
		BRIDGE END BACKFILL	GEOTEXT. STAB.	
FROM	TO	TYPE 3	HIGH SURV.	
19+08.85	19+42.71 B.E.	181	267	
20+58.38 B.E.	20+91.76	182	266	
TOTAL		363	533	

RANDOM RIPRAP

STATION		cu. yards	sq. yards		REMARKS
		RANDOM RIPRAP	GEOTEXTILE PERM. EROS. CNTRL. HIGH SURV. CLASS C	RIPRAP REVEGE-TATION	
FROM	TO	CL. 2			
19+16.21	19+76.21	527.4	635	541	
20+24.88	20+84.88	527.4	635	541	
TOTAL		1,054.8	1,270	1,082	

EMBANKMENT PROTECTORS

STATION		linear feet				cu. yards	REMARKS
		EMBANKMENT PROTECTOR 18"		CONCRETE CURB 4"		ANCILLARY ARMOR	
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	CLASS 1	
18+88.21	19+41.21 B.E.			53.0			
19+38.71		22				3.0	30.0° ELBOW
18+88.21	19+41.21 B.E.				53.0		
19+38.71			22			3.0	30.0° ELBOW
20+59.88 B.E.	21+12.88			53.0			
20+62.38		22				3.0	30.0° ELBOW
20+59.88 B.E.	21+12.88				53.0		
20+62.38			22			3.0	30.0° ELBOW
SUBTOTAL		44	44	106.0	106.0	12.0	
TOTAL		88		212.0		12.0	

REMOVE TREES

STATION	each	REMARKS
	REMOVE TREES	
18+52.00	1	60 LT.
TOTAL	1	

SHEET NO.
11

SUMMARIES

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY C. PERIMAN 09/2023
REVIEWED BY
CHECKED BY J. SOLIDAY 03/2025
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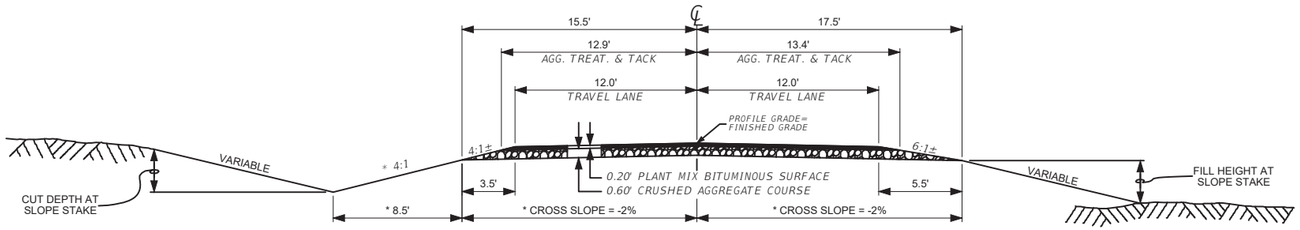
MONTANA Department of Transportation
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TYPICAL SECTION NO. 1

DETOUR
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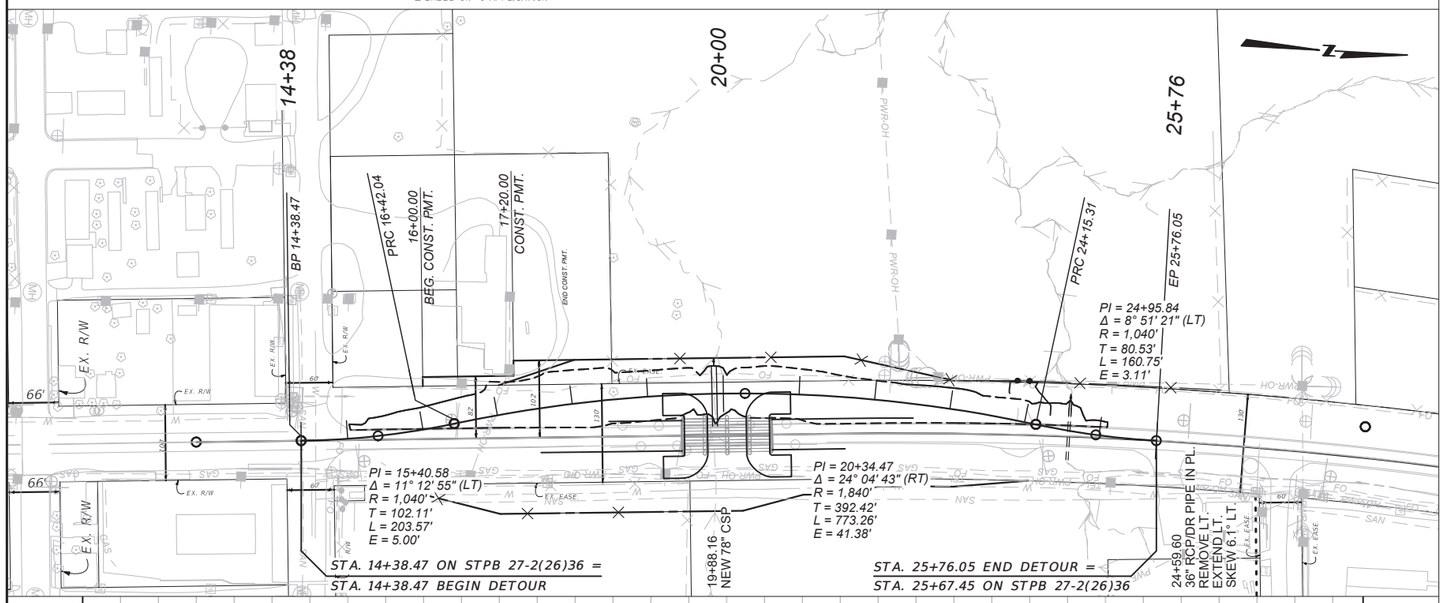


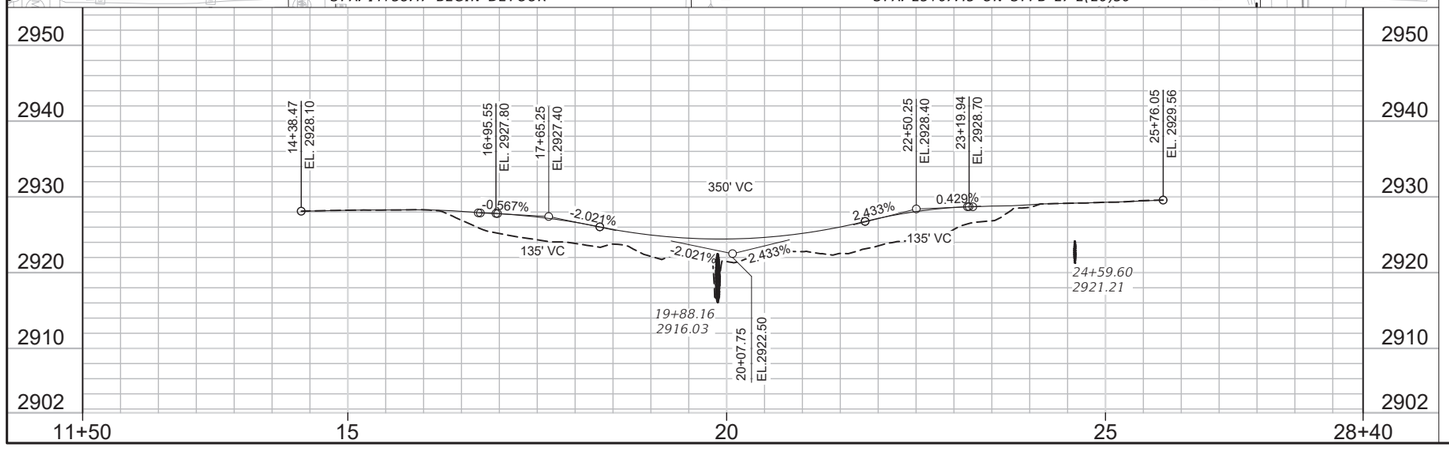
* SEE CROSS SECTIONS FOR DEVIATIONS

QUANTITIES

UNIT	AGGREGATE		UNIT	BIT. MATERIAL		AGGREGATE TREATMENT
	PLANT MIX	CR. AGG. COURSE		ASPHALT CEMENT	EMULSIFIED ASPHALT TACK Δ	
AREA square feet	5.03	17.79	square yards PER STATION		292	292
cubic yards PER STATION	18.6	65.9	tons PER STATION	2.23		
tons PER STATION	35.9		gals. PER STATION		15	
square yards PER STATION						

Δ BASED ON 1 APPLICATION





DETOUR ITEMS ◆

STATION FROM	STATION TO	QUANTITY	DESCRIPTION	REMARKS
14+38.47	25+76.05	934 cyd.	EXCAVATION - UNCLASSIFIED	
14+38.47	25+76.05	1,231 cyd.	EMBANKMENT IN PLACE	
14+38.47	25+76.05	297 cyd.	EXCAVATION - UNCLASSIFIED BORROW	
14+38.47	25+76.05	533 cyd.	CRUSHED AGGREGATE COURSE	
14+38.47	25+76.05	294 tons	COMMERCIAL MIX	
14+38.47	25+76.05	2,198 syd.	AGGREGATE TREATMENT	
14+38.47	25+76.05	110 gal.	EMULSIFIED ASPHALT - TACK COAT	
14+38.47	25+76.05	8 gal.	STRIPING - WHITE PAINT	
14+38.47	25+76.05	8 gal.	STRIPING - YELLOW PAINT	
19+88.16		80 ln. ft.	DRAINAGE PIPE 78 IN	
24+59.60		18 ln. ft.	DRAINAGE PIPE 36 IN	LT. - TEMPORARY EXTENSION

◆ FOR INFORMATION ONLY

DETOUR ALIGNMENT COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
14+38.47	PC	817,537.075	3,285,692.533	EQUALS MAINLINE STA. 14+38.47
15+40.58	PI	817,638.946	3,285,685.513	RADIUS = 1,040' (LT.)
16+42.04	PRC	817,737.507	3,285,658.814	
20+34.47	PI	818,116.279	3,285,556.210	RADIUS = 1,840' (RT.)
24+15.31	PRC	818,503.955	3,285,617.068	
24+95.84	PI	818,583.514	3,285,629.558	RADIUS = 1,040' (LT.)
25+76.05	PT	818,664.047	3,285,629.650	EQUALS MAINLINE STA. 25+67.45

ALIGNMENT NAME: 9682000_RD_PA_DETOUR PROFILE NAME: 9682000_RD_PP_DETOUR

SHEET NO. 12

DETAIL
DETOUR
MAINLINE STA. 14+38.47 TO STA. 25+67.45
(NO SCALE)

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

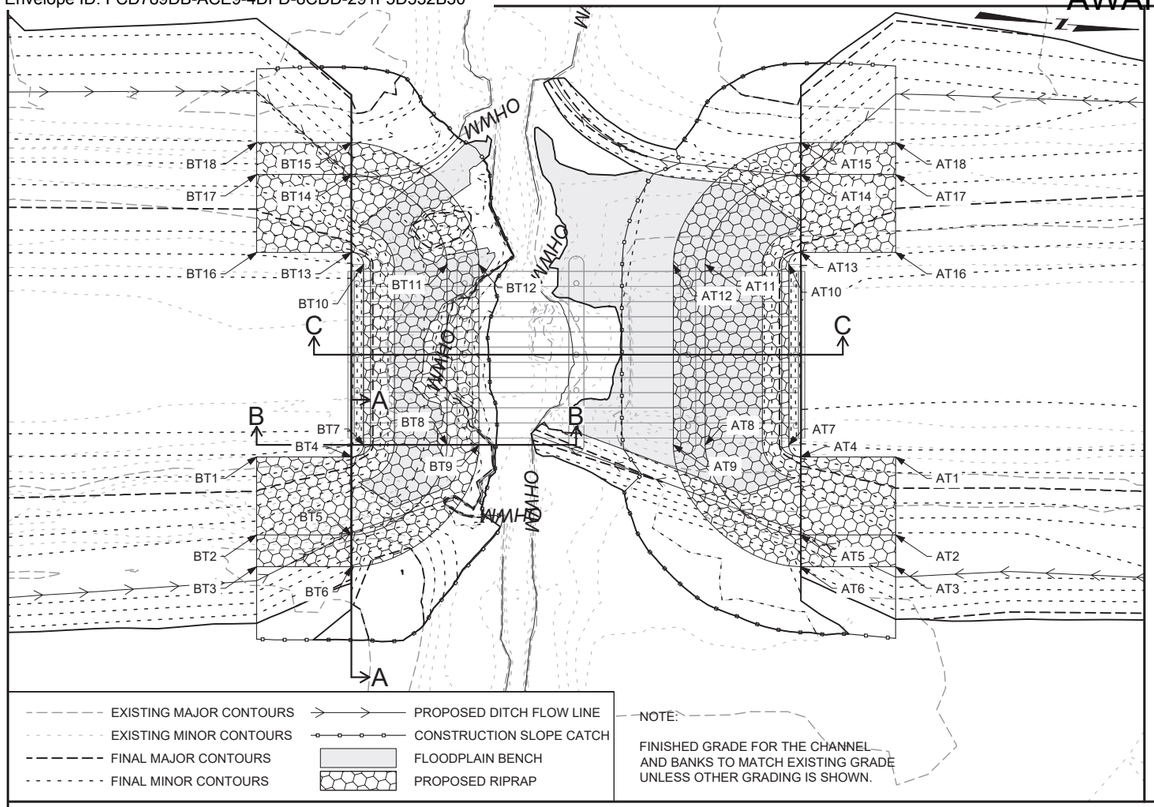
DESIGNED BY: C. PERIMAN 09/2023
REVIEWED BY:
CHECKED BY: J. SOLIDAY 03/2025
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MONTANA Department of Transportation
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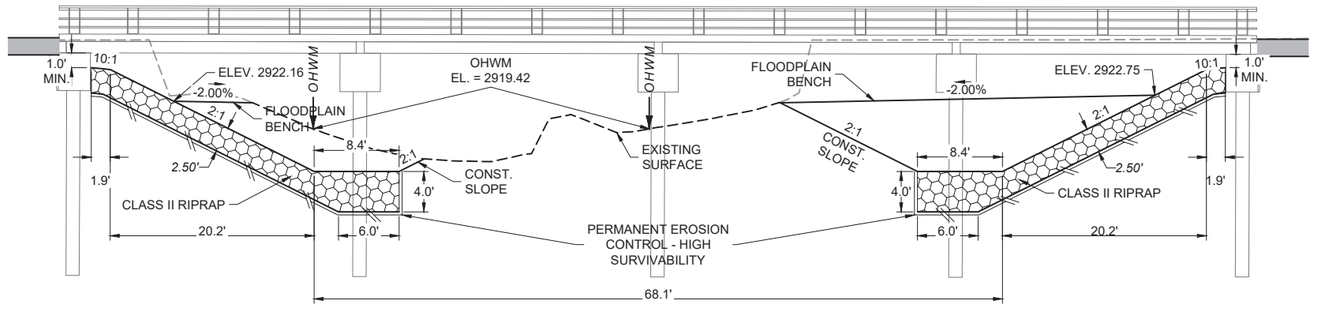


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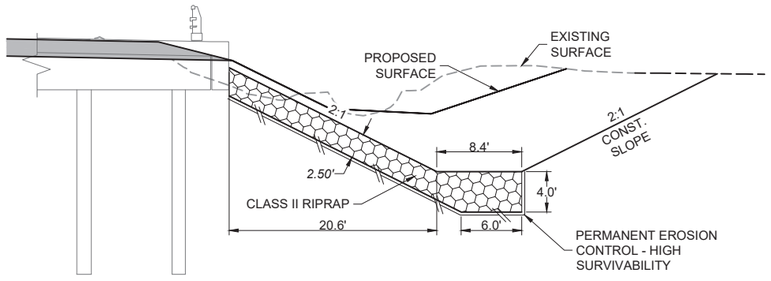
FINISHED GRADE FOR THE CHANNEL AND BANKS TO MATCH EXISTING GRADE UNLESS OTHER GRADING IS SHOWN.

RIPRAP COORDINATE TABLE

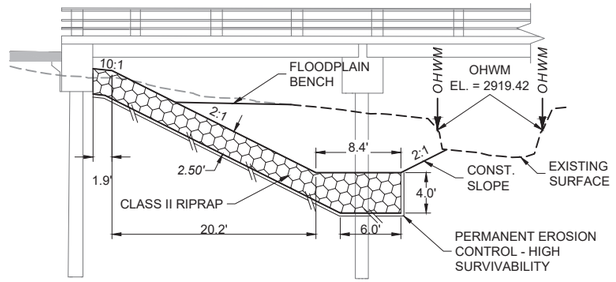
POINT NUMBER	N OR Y COORDINATE	E OR X COORDINATE	TOP OF RIPRAP ELEVATION	FINISHED GRADE ELEVATION	REMARKS
BT1	818,015.539	3,285,686.629	2,925.48	2,926.90	
BT2	818,016.952	3,285,707.140	2,915.20	2,923.48	
BT3	818,017.530	3,285,715.530	2,915.20	2,922.07	
BT4	818,040.480	3,285,684.910	2,925.48	2,926.35	
BT5	818,041.893	3,285,705.422	2,915.20	2,921.03	
BT6	818,042.471	3,285,713.811	2,915.20	2,922.71	
BT7	818,043.452	3,285,681.498	2,925.48	2,925.48	
BT8	818,065.465	3,285,679.981	2,915.20	2,921.70	
BT9	818,073.855	3,285,679.403	2,915.20	2,920.84	
BT10	818,040.180	3,285,634.010	2,925.48	2,925.52	
BT11	818,062.193	3,285,632.494	2,915.20	2,921.88	
BT12	818,070.583	3,285,631.916	2,915.20	2,921.71	
BT13	818,036.768	3,285,631.038	2,925.48	2,926.35	
BT14	818,035.354	3,285,610.527	2,915.20	2,921.03	
BT15	818,034.776	3,285,602.137	2,915.20	2,922.71	
BT16	818,011.827	3,285,632.756	2,925.48	2,926.90	
BT17	818,010.414	3,285,612.245	2,915.20	2,923.47	
BT18	818,009.836	3,285,603.855	2,915.20	2,922.07	
AT1	3,285,675.034	818,183.810	2,925.48	2,926.70	
AT2	3,285,695.546	818,185.223	2,915.20	2,923.27	
AT3	3,285,703.935	818,185.801	2,915.20	2,921.87	
AT4	3,285,676.753	818,158.869	2,925.48	2,926.20	
AT5	3,285,697.266	818,160.252	2,915.20	2,920.90	
AT6	3,285,705.656	818,160.830	2,915.20	2,922.58	
AT7	3,285,673.780	818,155.457	2,925.48	2,925.48	
AT8	3,285,675.265	818,133.442	2,915.20	2,922.43	
AT9	3,285,675.843	818,125.052	2,915.20	2,922.26	
AT10	3,285,626.293	818,152.185	2,925.48	2,925.48	
AT11	3,285,627.841	818,130.174	2,915.20	2,922.42	
AT12	3,285,628.419	818,121.784	2,915.20	2,922.24	
AT13	3,285,622.880	818,155.157	2,925.48	2,926.20	
AT14	3,285,602.371	818,153.714	2,915.20	2,920.90	
AT15	3,285,593.981	818,153.135	2,915.20	2,922.58	
AT16	3,285,621.162	818,180.098	2,925.48	2,926.93	
AT17	3,285,600.651	818,178.685	2,915.20	2,923.51	
AT18	3,285,592.261	818,178.107	2,915.20	2,922.10	



SECTION
C - C



SECTION
A - A



SECTION
B - B

SHEET NO.
13

DETAIL
RIPRAP LAYOUT
(NO SCALE)

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY	DATE	REVIEWED BY		CHECKED BY	DATE
C. PERIMAN	09/2023			J. SOLIDAY	03/2025

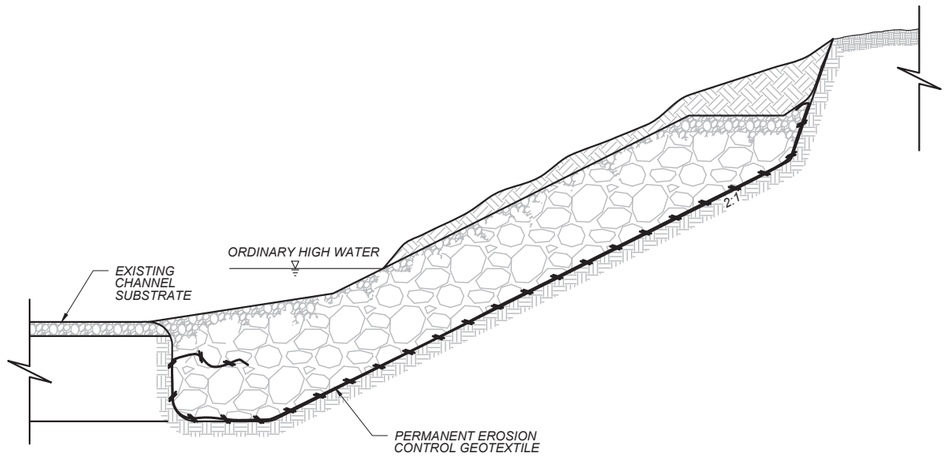
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MONTANA
Department of Transportation

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RIPRAP REVEGETATION TYPICAL

NOTES:

1. FILL RIPRAP VOIDS WITH GRANULAR BEDDING OR A MATERIAL OF SIMILAR. GRADATION OBTAINED ON SITE TO PROVIDE A UNIFORM SURFACE FOR THE PLACEMENT OF TOPSOIL, AS APPROVED BY THE PROJECT MANAGER.
2. PLACE TOPSOIL WITH A MINIMUM THICKNESS OF 6"
3. THIS DETAIL IS TO BE USED AS A VISUAL GUIDE FOR RIPRAP REVEGETATION. REFER TO THE PLAN SHEETS AND CROSS SECTIONS FOR SPECIFIC ELEVATIONS AND GEOMETRIC CONFIGURATION OF THE RIPRAP LAYOUT.
4. REFER TO THE SPECIAL PROVISIONS FOR PLANTING AND SEEDING SPECIFICATIONS

LEGEND

- TOPSOIL WITH EROSION CONTROL BLANKET/MULCH COVER
- RANDOM RIPRAP
- GRANULAR BEDDING
- EXISTING GROUND
- PERMANENT EROSION CONTROL GEOTEXTILE
- EXCAVATION

SHEET NO. 14

DETAIL
RIPRAP REVEGETATION
(NO SCALE)

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY	09/2023
C. PERIMAN	
REVIEWED BY	
CHECKED BY	03/2025
J. SOLIDAY	

MONTANA
Department of Transportation
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SHEET NO. 15

PLAN & PROFILE

SANITARY SEWER CROSSINGS:
14+40 DEPTH UNKNOWN

WATER LINE CROSSINGS:
14+58 DEPTH UNKNOWN

FIBER OPTIC CROSSINGS:
14+91 DEPTH UNKNOWN

POWER CROSSINGS:
16+80 CLEARANCE UNKNOWN

T. 7 N. R. 69 E. SEC. 12

13+00 | 20+00

BP 13+00.00 | EX. R/W | 60' | 100'

16+00.00 BEG. CONST. PMT.

17+00.00 R/W 69.87' EX. EASE =R/W

17+20.00 CONST. PMT.

END CONST. PMT. 18+00.00 R/W 102.00'

SITE 1
PERM. IMPACT AREA
SQ. FT. = 8094
ACRES = 0.186

SITE 2
PERM. IMPACT AREA
SQ. FT. = 321
ACRES = 0.007

OHWM
EL. = 2919.42

21+56.43 R/W 102.00'

PC 21+56.43

23+00.00 R/W 69.81' R/W=EX. EASE.

EX. EASE.

82' | 10.2' | 130'

9682000-1 | 9682000-1A | 9682000-2

N 03° 56' 30" W

17+00.00 R/W 100.00'

STA. 14+38.47
BEGIN DETOUR

STA. 15+65.00
BEGIN STPB 27-2(25)36

STA. 24+35.00
END STPB 27-2(25)36

STA. 25+67.45
END DETOUR

14+60.00 24" HDPE/DR PIPE LT. USE IN PLACE

14+64.00 18" CMP/DR PIPE RT. USE IN PLACE

14+85.00 18" CMP/DR PIPE RT. USE IN PLACE

R/W 15+50.00 60.07' EX. R/W=R/W

18+52 REMOVE TREE 60' LT.

19+38.71 NEW 18" x 22' EMB. PROT. LT.

19+38.71 NEW 18" x 22' EMB. PROT. RT.

19+81.50 25.0' x 63' BR. IN PL REMOVE

20+00.55 40.0' x 115.75' BR. NEW

R/W 20+20.00 100.00'

20+62.38 NEW 18" x 22' EMB. PROT. LT.

20+62.38 NEW 18" x 22' EMB. PROT. RT.

R/W 21+00.00 80.00'

R/W 21+56.43 80.00'

R/W 22+00.00 70.00'

R/W 23+00.00 70.00'

R/W 24+00.00 60.17' R/W=EX. EASE.

24+51.00 36" RCP/DR PIPE USE IN PLACE

25+83.00 18" CMP/RD PIPE RT. USE IN PLACE

18+50.83 TO 19+50.83 B.E.
REMOVE EX. GUARDRAIL LT.

18+42.25 TO 19+41.21 B.E.
GUARDRAIL WIDENING LT.

18+50.83 TO 19+50.83 B.E.
REMOVE EX. GUARDRAIL RT.

17+52.25 TO 19+41.21 B.E.
GUARDRAIL WIDENING RT.

20+15.16 B.E. TO 21+15.16
REMOVE EX. GUARDRAIL LT.

20+59.88 B.E. TO 22+48.84
GUARDRAIL WIDENING LT.

20+15.16 B.E. TO 21+15.16
REMOVE EX. GUARDRAIL RT.

20+59.88 B.E. TO 21+58.84
GUARDRAIL WIDENING RT.

23+90
FARM FIELD APP. LT.

15+65.00 EL. 2928.46

16+55.00 EL. 2928.79

B.E. 19+42.71 EL. 2928.44

B.E. 20+58.38 EL. 2928.29

23+45.00 EL. 2929.05

24+35.00 EL. 2929.20

0.367% | -0.124% | 180' VC

-0.124% | -180' VC | 0.494% | 0.167% | 180' VC

BRIDGE DECK

BRIDGE END BACKFILL

FLOODPLAIN BENCH

RIPRAP

21+65.00 EL. 2928.16

24+51.00 2920.92

NEW GUARDRAIL LT. +42.25 | +41.21

NEW GUARDRAIL LT. +59.88 | +48.84

NEW GUARDRAIL RT. +52.25 | +41.21

NEW GUARDRAIL RT. +59.88 | +58.84

2940 | 2930 | 2920 | 2910 | 2900

13+00 | 15 | 20 | 25 | 27+00

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 09/2023
REVIEWED BY:
CHECKED BY: J. SOLIDAY 03/2025

MONTANA Department of Transportation

ROAD DESIGN

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Docusign Envelope ID: FCD789DB-ACE9-4DFD-8CDD-291F5D532B30

AWARD COPY

PLAN & PROFILE

POWER CROSSINGS:
27+61 CLEARANCE UNKNOWN

FIBER OPTIC CROSSINGS:
31+65 DEPTH UNKNOWN

SANITARY SEWER CROSSINGS:
39+96 DEPTH UNKNOWN

WATER LINE CROSSINGS:
40+18 DEPTH UNKNOWN

30+00

40+00

T 7 N
R 59 E
SEC. 12

PT 35+23.06

EP 40+00.00

EX. EASE.

N 09° 43' 25" E

PI = 28+43.00
Δ = 13° 39' 55" (RT)
R = 5,730'
T = 686.57'
L = 1,366.63'
E = 40.99'

60'

27+35.00
18" CMP/DR PIPE RT.
USE IN PLACE

27+48.00
24" CMP/DR PIPE RT.
USE IN PLACE

27+62.00
18" CMP/DR PIPE RT.
USE IN PLACE

27+88.00
21" OTHER/DR PIPE RT/
USE IN PLACE

28+03.00
18" HDPE/DR PIPE RT.
USE IN PLACE

28+66.00
15" x 24" CMPA/DR PIPE RT.
USE IN PLACE

30+08.00
18" CMP/DR PIPE RT.
USE IN PLACE

31+19.00
20" OTHER/DR PIPE LT.
USE IN PLACE

31+48.00
8" OTHER/DR PIPE RT.
USE IN PLACE

32+34.00
18" CMP/DR PIPE LT.
USE IN PLACE

38+71.00
12" OTHER/DR PIPE LT.
USE IN PLACE

38+99.00
24" CMP/DR PIPE LT.
USE IN PLACE

2950
2940
2930
2920
2910

27+00
30
35
40
41+00

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

COUNTY
FALLON COUNTY

PROJECT ID
STPB 27-2(26)36

UPN
9682000

DESIGNED BY	09/2023
C. PERIMAN	
REVIEWED BY	
CHECKED BY	03/2025
J. SOLIDAY	

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MONTANA
Department of Transportation

ROAD DESIGN

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	10	SQUARE FOOT
POLES-TREATED WOOD 4 IN	26	FOOT
POLES-TREATED WOOD 5 IN	16	FOOT
DELINEATOR DES A	6	EACH
REMOVE	3	EACH

NOTES:

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

WHITE CROSS SIGNS ARE BY OTHERS.

SHEET NO.
S1

SUMMARY & NOTES

MONTANA
Department of Transportation

DESIGNED BY	PROJECT NAME
S WATSON 12/2023	SANDSTONE CREEK BRIDGE - BAKER
REVIEWED BY	COUNTY
T MURFITT MM/YYYY	FALLON
CHECKED BY	PROJECT ID
N STYREN 12/2023	STPB 27-2(26)36
	UPN
	9682000

SPEC & SUMMARY SHEETS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS											SIGN ASSEMBLY SPECIFICATIONS														SIGN ASSEMBLY QUANTITIES											ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET			FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	SLOPE	TYPE OF SUPPORT	SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) 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		
15+24		NB		R2-1	24	X	30	XI						10.00	6:1	4" Treated Wood Pole		5.00		3	12-4						5.0		14.00						1				SPEED LIMIT (___)	REPLACE - SPEED LIMIT (35)
		X																																					
16+38		NB		CITY-1										10.00	6:1	5" Treated Wood Pole		5.00		3-6	16-0				X				16.00					1		1				USE AS IS - USE OF HAND-HELD PHONES PROHIBITED WHILE DRIVING
X																																							
				CITY-2																																				USE AS IS - CELLPHONE USE PROHIBITED SYMBOL
24+30		NB		R10-11	30	X	24	XI						10.00	6:1	4" Treated Wood Pole		5.00		3	11-11						5.0		12.00						1				LITTERING PROHIBITED	REPLACE - LITTERING PROHIBITED
																				SHEET TOTALS						10		26	16					3					

DELINEATION TABLE	
DELINEATOR DES A	6

SHEET NO.
S2

SIGN SPECIFICATIONS & LOCATIONS

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

COUNTY
FALLON

PROJECT ID
STPB 27-2(26)36

UPN
9682000

DESIGNED BY	12/2023
S WATSON	
REVIEWED BY	MM/YYYY
T MURFITT	
CHECKED BY	12/2023
N STYREN	

MONTANA
Department of Transportation

SPEC & SUMMARY SHEETS

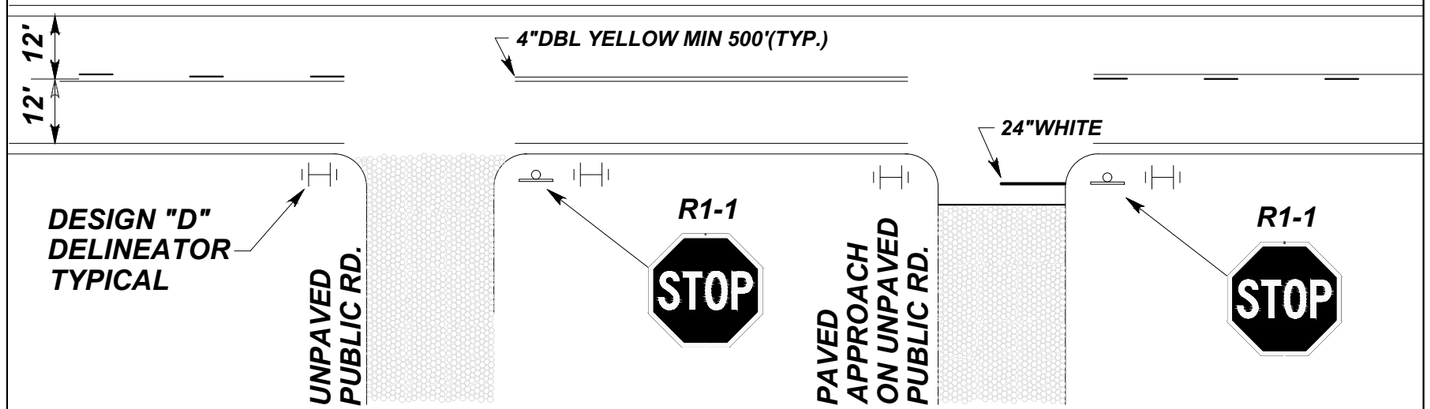
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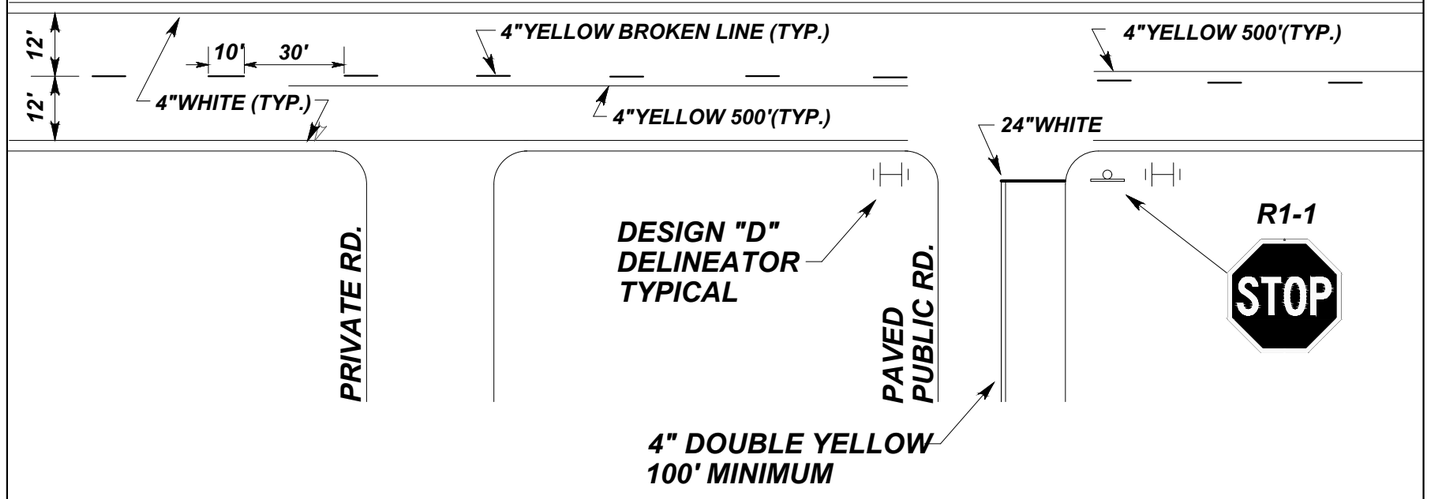
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TYPICAL RURAL PAVEMENT MARKINGS

NO SCALE





NOTE: FINAL CENTERLINE CONFIGURATION AND NO PASSING ZONES TO BE DETERMINED BY THE PROJECT MANAGER.

ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

SHEET NO.
S3

TYPICAL RURAL PAVMENT MARKING DETAIL

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY	12/2023	S WATSON	
REVIEWED BY	MM/YYYY	T MURFITT	
CHECKED BY	12/2023	N STYREN	

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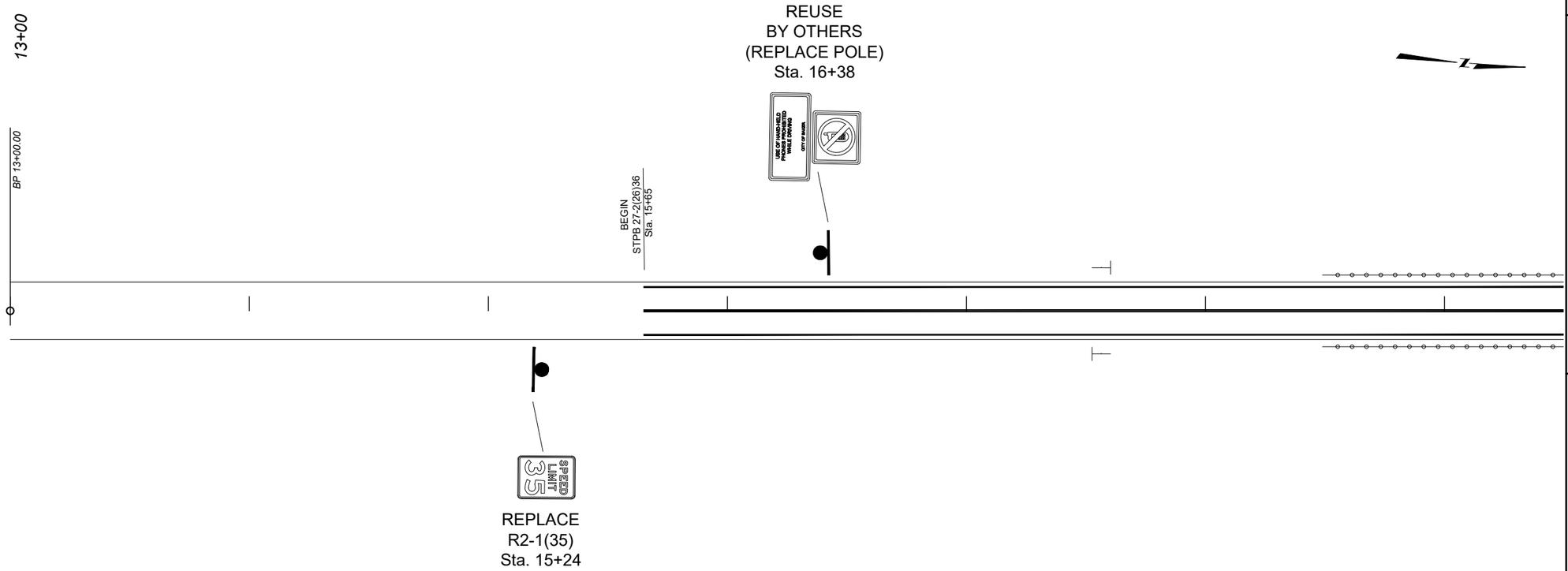
MONTANA Department of Transportation

DETAILS

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SHEET NO.
S4

PLAN SHEETS

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

COUNTY
FALLON

PROJECT ID
STPB 27-2(26)36

UPN
9682000

DESIGNED BY		DATE
S WATSON		12/2023
REVIEWED BY		MM/YYYY
T MURFITT		
CHECKED BY		DATE
N STYREN		12/2023

MONTANA
Department of Transportation

SIGNING PLANS

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ASSOCIATED PROJECT AGREEMENT NUMBERS	
P.E.	STPB 27-2(25)36

BRIDGE IDENTIFICATION		
MDT STR ID	EXISTING NBI NUMBER	NEW NBI NUMBER
05697	P00027035+08231	000000202505697

MONTANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS AND QUANTITIES

FEDERAL AID PROJECT STPB 27-2(26)36

SANDSTONE CREEK BRIDGE - BAKER

FALLON COUNTY

Signed by: Andin Cullison
BY 49429C814AE44D1...
DATE 12/4/2025

MONTANA
ANDIN CULLISON
39000 PE
LICENSED PROFESSIONAL ENGINEER

SCALES SHOWN ON BRIDGE PLANS SHEETS ARE FOR HALF SIZE (11X17) PRINTS
FULL SIZE PRINTS ARE APPROXIMATELY TWICE ORIGINAL SCALE

LIST OF DRAWINGS

SHEET NO.	DWG. NO.	TITLE
B1	21011	LIST OF DRAWINGS AND ESTIMATED BRIDGE PLAN QUANTITIES
B2	21012	STRUCTURAL NOTES AND SPECIFICATIONS
B3	21013	GENERAL LAYOUT
B4	21014	FOOTING PLAN
B5	21015	BENT NO. 1 & NO. 5
B6	21016	BENT NO. 1 & NO. 5 DETAILS
B7	21017	PIER NO. 2, NO. 3 & NO. 4
B8	21018	PIER NO. 2, NO. 3 & NO. 4 DETAILS
B9	21019	PIER DETAILS AND BILL OF REINFORCING STEEL
B10	21020	ERECTION PLAN
B11	21021	DECK DETAILS
B12	21022	DECK DETAILS AND BILL OF REINFORCING STEEL
B13	21023	PRESTRESSED SLAB DETAILS
B14	21024	BRIDGE RAIL TYPE OPEN RAIL 42 INCH - SHEET 1
B15	21025	BRIDGE RAIL TYPE OPEN RAIL 42 INCH - SHEET 2
B16	21026	BRIDGE RAIL TYPE OPEN RAIL 42 INCH - SHEET 3
B17	21027	PILE SPLICE DETAILS AND PILE TIPS

ESTIMATED BRIDGE PLAN QUANTITIES

MDT STRUCTURE ID NUMBER	ROUTE	FEATURE INTERSECTED	REFERENCE POINT	LOCATION	CONCRETE - CLASS STRUCTURE (YD³)	CONCRETE - CLASS STRUCTURE LOW SLUMP (YD³)	TRANSVERSE DECK GROOVING (YD²)	PRESTRESSED GIRDER -SLAB (LN.FT.)	REINFORCING STEEL (LB.)	REINFORCING STEEL-EPOXY COATED (LB.)	REINFORCING STEEL-CR-CLASS 1 (LB.)	42 INCH OPEN RAIL-BR-CSC (LN.FT.)	RE-DRIVE TEST PILE (EACH)	DYNAMIC LOAD TEST (EACH)	FURN STEEL PILE-PILE (LB.)	DRIVE STEEL PILE (LN.FT.)	PILE CUTTING SHOES (EACH)
05697	P-27	SANDSTONE CREEK	35.859	BENT NO. 1	20.6	3.4			3236.0	426.8	120.3				19330.6	225.0	5
				PIER NO.2	20.2				2622.3				1	1	19299.5	196.5	5
				PIER NO.3	20.2				2622.3						19284.2	205.7	5
				PIER NO.4	20.2				2622.3						19269.3	185.0	5
				BENT NO. 5	20.6	3.4			3236.0	426.8	120.3		1	1	17200.1	199.3	5
				SUPERSTRUCTURE		73.8	498.6	1221.0			15757.4	237.5					
				TOTAL	101.8	80.6	498.6	1221.0	14338.9	853.6	15998.0	237.5	2	2	94383.7	1011.5	25

SHEET NO. B1

LIST OF DRAWINGS AND ESTIMATED BRIDGE PLAN QUANTITIES

REVISED	REVISED	REVISED	REVISED	CHECKED	DRAWN	DESIGNED
				S.A.W.	D.G.G.	J.E.S.
				7-23-25	9-27-24	10-20-23

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MONTANA Department of Transportation
BRIDGE BUREAU

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UPN NUMBER 9682000

DRAWING NO. 21011

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GENERAL NOTES:

The current version of the Standard and Supplemental Specifications for Road and Bridge Construction, adopted by the Montana Department of Transportation, applies.

The design was prepared in accordance with AASHTO LRFD Bridge Design Specifications, Eighth edition - 2017, with standard HL-93 loading.

Include structure excavation in the unit price bid for Concrete - Class Structure.

See Special Provisions and/or Standard Specifications for Traffic Control and Project Sequence of Operations.

Remove the existing structure (See Road Plan sheets and Special Provisions).

Stations and coordinates shown on the bridge plans are Montana State Plane Grid based on NAD83-2011.

Elevations shown on the bridge plans are NAVD88 Elevations. See Road Plans for additional Elevation Datum information.

Dimensions shown on the bridge plans are horizontal ground distances and not Montana State Plane Grid distances. The combination scale factor (CSF) at this location is 0.99931669.

Horizontal ground distance x CSF = Grid Distance
Grid Distance / CSF = Horizontal ground distance (Distance to stake)

FOUNDATION NOTES:

The Footing Plan shows points where the State of Montana, Department of Transportation drilled boreholes.

The series of numbers on the Log of Borings shows the number of blows from a 140 pound hammer with a 30" drop required to drive a 2" split spoon sampler 6" (Standard Penetration Test). The length of the split spoon sampler is 18". The sampler length is measured as three 6" intervals. If the split spoon sampler did not penetrate 6" after 50 blows, the Log of Borings shows the measured penetration within that particular interval.

See the Special Provisions for original boring logs and additional subsurface information.

Contact the MDT Geotechnical Section at (406)444-6281 if pile tip elevations deviate more than 1 foot from the elevation indicated.

If the project manager requires a re-drive of the test pile or service pile, re-drive the pile in accordance with Section 559.

See Sheet No. B 17 for pile splice and pile tip weld details.

REINFORCING STEEL NOTES:

Use new deformed type reinforcing steel meeting the requirements of AASHTO M 31 Grade 60. Include all costs associated with furnishing and placing new reinforcing steel in the unit price bid for either Reinforcing Steel or Reinforcing Steel - Epoxy Coated.

CORROSION RESISTANT REINFORCING STEEL: Use new deformed type reinforcing steel meeting the requirements of ASTM A 1035 Grade 100 or ASTM A955 UNS Designation; S24100 as specified. Include all costs associated with furnishing and placing new corrosion resistant reinforcing steel in the unit price bid for Reinforcing Steel-CR-Class 1.

Unless specified otherwise on the drawings, the minimum concrete cover measured from the face of the concrete to the face of any reinforcing steel is 2" except as noted below:

Bottom of Slab 1"
Top of Slab 2"
Bottom of Abutment Caps 3"
Concrete Barriers and Curbs 1 1/2"

Concrete cover to any tie bar is 1/2" less than what is listed above.

Ensure reinforcing steel does not interfere with anchor bolt placement.

The suffix CR denotes corrosion resistant reinforcing steel.
The suffix E denotes epoxy coated reinforcing steel.

Include the cost of all rail reinforcing steel embedded in the beam in the unit price bid for Prestressed Girder -Slab.

CONCRETE NOTES:

Unless otherwise approved or specified, use Concrete - Class Structure for all substructure concrete and Concrete - Class Structure Low Slump for all superstructure concrete, wingwall and backwall concrete.

Use f'c=4000 p.s.i. for Concrete - Class Structure. Use f'c=4000 p.s.i. for Concrete - Class Structure Low Slump.

Backwall, wingwall, and deck concrete to be cast in one single operation.

Apply Silane Sealer per Standard Specification 552.08.18 to cast-in-place concrete deck surface.

STRUCTURAL STEEL:

Use structural steel meeting the requirements of AASHT0 M 270 Grade 36 for smooth bars.

ABUTMENT & PIER NOTES:

Include all costs associated with furnishing and placing the expansion joint filler, tarpaper and neoprene waterstop in the unit price bid for Concrete - Class Structure.

Securely nail expansion joint filler to pile cap concrete and hold in proper position while placing backwall concrete.

ABBREVIATIONS

N.F.	Near Face
F.F.	Fill Face
E.F.	Each Face
Brg.	Bearing
CL	Centerline

FLAT SLAB BEAM NOTES:

Provide a non-shrink, non-gaseous, non-metalic grout conforming to the specification of ASTM 1107. Ensure grout has achieved 5000 psi strength prior to continuing construction activities.

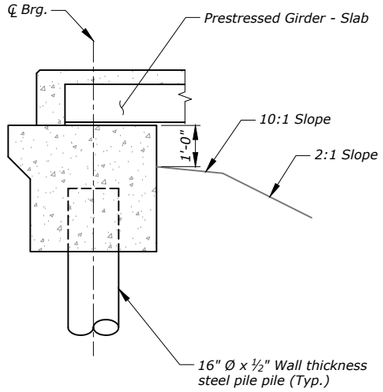
Finish top of beams to ¼" amplitude roughened surface.

Prior to shipment, sandblast and clean all contaminants from shear key surfaces to promote bond between the grout and base concrete. Include the cost associated with sandblasting, cleaning and grouting the shear keyways in the unit price bid for Prestressed Girder - Slab.

Include the cost of furnishing and placing all smooth bars, neoprene bearing pads and weld tie connections in the unit price bid for Prestressed Girder - Slab.

Include the cost to furnish, place and weld bars, rods and angles, non-shrink grout and other incidentals incorporated in the beam in the unit price bid for Prestressed Girder - Slab.

* Do not apply Silane Sealer to top of Prestressed Flat Slab concrete beam surface.



AA / B3 **Section**

Scale: 1/4" = 1'-0"

REBAR LAP LENGTHS

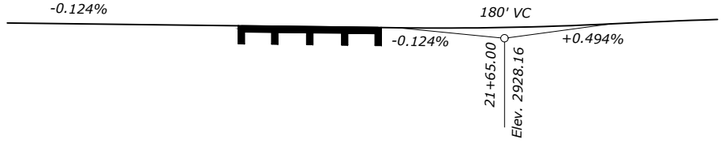
BAR DIAMETER	PLAIN	EPOXY (E)	SEISMIC (W)	CORROSION (CR)
#3	1'-10"	2'-3"	1'-10"	2'-2"
#4	2'-5"	2'-11"	2'-5"	2'-10"
#5	3'-0"	3'-8"	3'-0"	3'-7"
#6	3'-7"	4'-5"	3'-7"	4'-3"
#7	4'-6"	5'-6"	4'-6"	5'-4"
#8	5'-11"	7'-2"	5'-11"	7'-0"
#9	7'-6"	9'-1"	7'-6"	8'-11"
#10	9'-6"	11'-6"	9'-6"	11'-3"
#11	11'-8"	14'-2"	11'-8"	13'-10"
#14	Mechanical Splice Only	Mechanical Splice Only	Mechanical Splice Only	Mechanical Splice Only
#18	Mechanical Splice Only	Mechanical Splice Only	Mechanical Splice Only	Mechanical Splice Only

4" Additional per lap slab splice has been provided for the construction tolerances for all deck and rail reinforcing.

HYDRAULIC DATA

Drift:	None
Ice:	Light
Low Scour Elevation (Q100)	2900.0'
Drainage Area:	38 sq. mi.
Q2 Elevation:	2922.57'
Q100 Flow:	1873 cfs
Q100 Elevation:	2926.56'
Q100 Velocity:	2.45 fps
Actual Low Beam Elevation:	2926.48'
Allowable Low Beam Elevation:	2926.48'

Also see Hydraulic Data Summary sheet.
Q100 Elevation includes backwater.



PROFILE GRADE

No Scale

SHEET NO. B2

STRUCTURAL NOTES AND SPECIFICATIONS

SCALE: As Noted

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

MDT STRUCTURE ID **05697**
AT STA. 20+00.55

FEDERAL AID PROJECT **STPB 27-2(26)36**

COUNTY **FALLON**

REVISED	CHECKED	S.A.W. 7-23-25
REVISED	DRAWN	D.G.G. 9-27-23
REVISED	DESIGNED	J.E.S. 10-20-23
REVISED		

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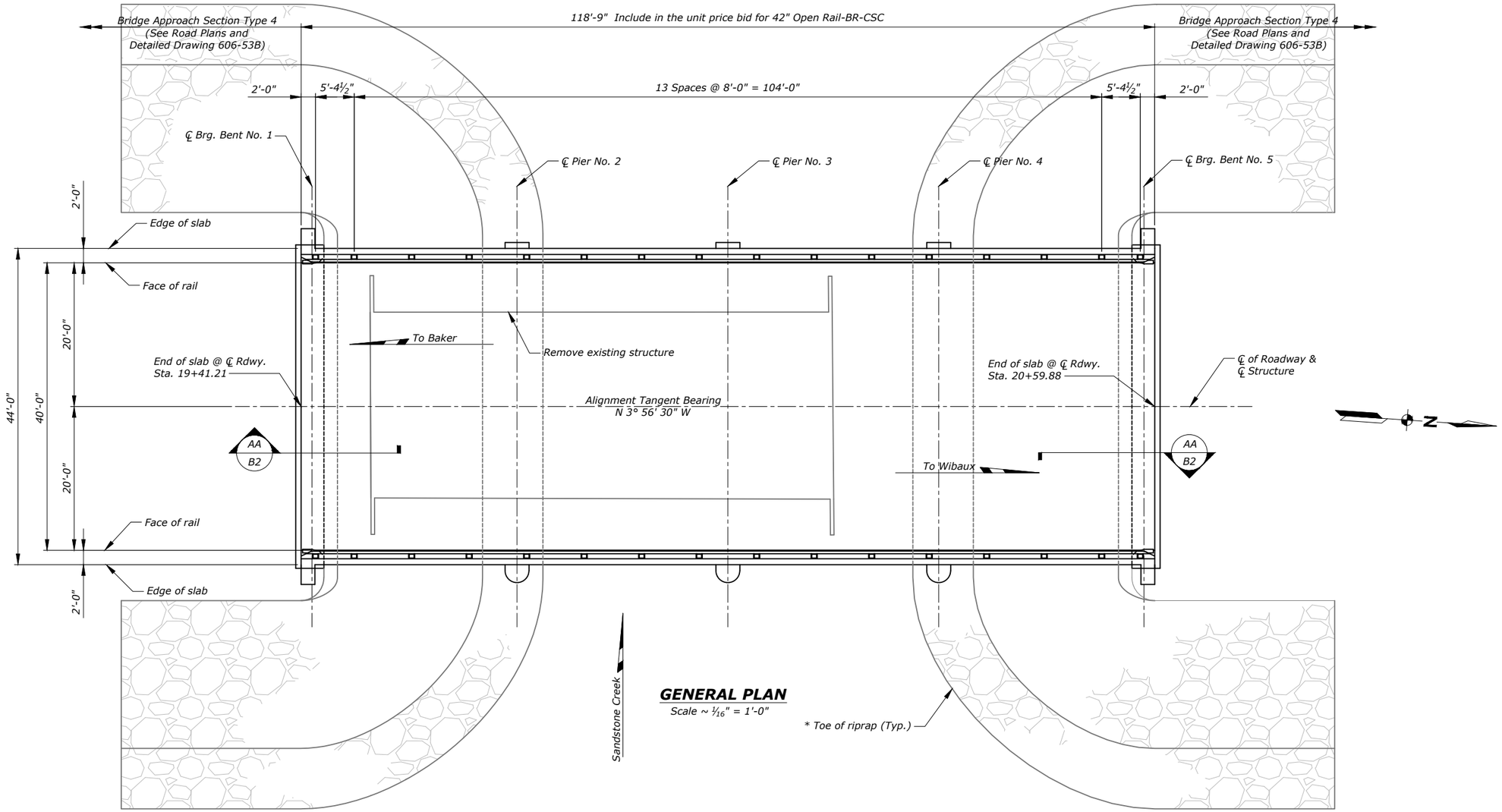
MONTANA Department of Transportation — BRIDGE BUREAU

UPN NUMBER 9682000

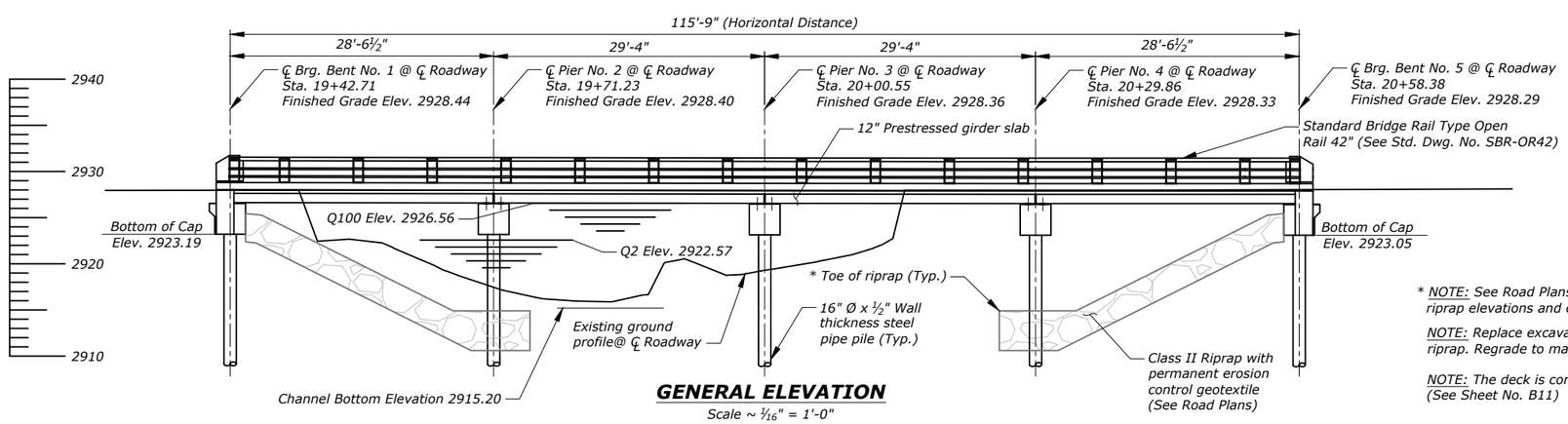
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GENERAL PLAN
Scale ~ 1/16" = 1'-0"



GENERAL ELEVATION
Scale ~ 1/16" = 1'-0"

* NOTE: See Road Plans for additional riprap elevations and contour grading.

NOTE: Replace excavated material after installation of riprap. Regrade to match existing channel surface.

NOTE: The deck is continuous over intermediate bents. (See Sheet No. B11)

SHEET NO.
B3

GENERAL LAYOUT

SCALE: As Noted

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

REVISED		
REVISED		
REVISED		
REVISED		
CHECKED	S.A.W.	7-23-25
DRAWN	D.G.G.	9-27-24
DESIGNED	J.E.S.	10-20-23

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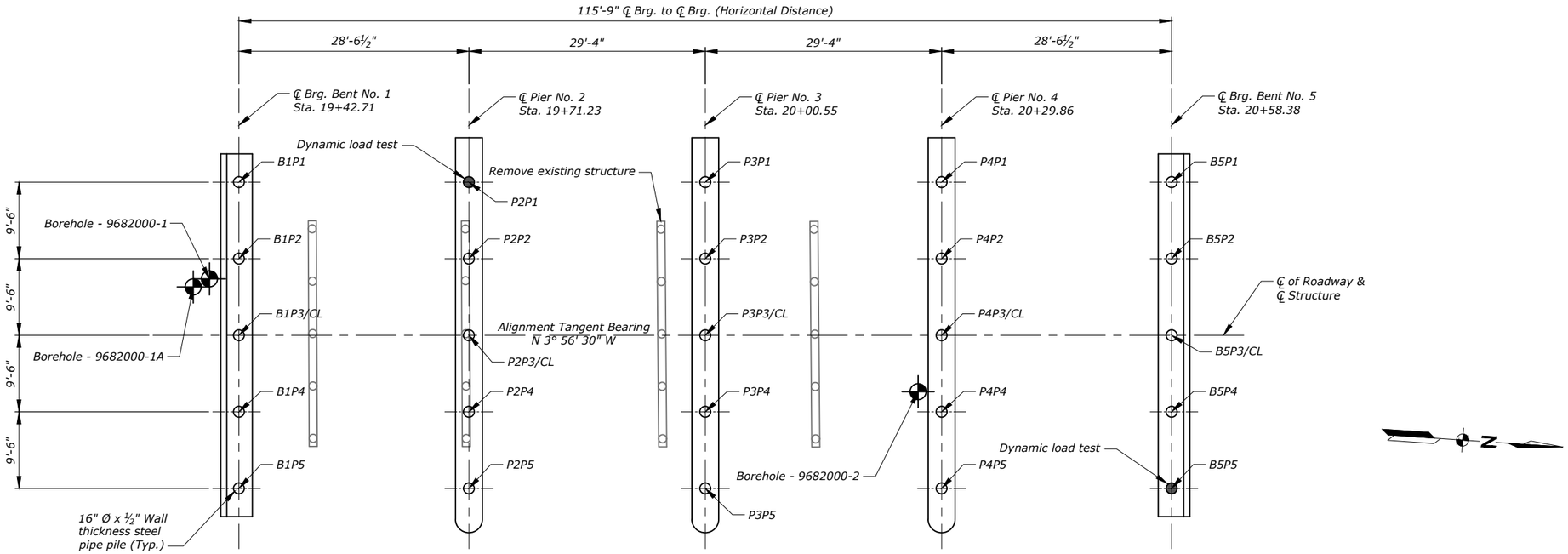
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9682000

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21013

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FOOTING PLAN

Scale ~ 1/16" = 1'-0"

NOTE: Existing substructure locations are approximate. Verify locations.

NOTE: Pile dimensions shown for Bent No. 1 are typical.

PILE INFORMATION

LOCATION	DESIGN PILE TIP ELEVATION	MAXIMUM PILE CUT-OFF ELEVATION	PILE TIP TREATMENT	REQUIRED BEARING RESISTANCE DURING DRIVING (KIP)	MAXIMUM PILE REACTION SERVICE I
BENT NO. 1	2878.2	2924.86	CUTTING SHOE	269	125
PIER NO.2	2878.2	2924.79	CUTTING SHOE	331	145
PIER NO.3	2878.2	2924.75	CUTTING SHOE	331	145
PIER NO.4	2878.2	2924.72	CUTTING SHOE	331	145
BENT NO. 5	2883.2	2924.72	CUTTING SHOE	269	125

COORDINATE TABLE

POINT NAME	N OR Y COORDINATE	E OR W COORDINATE	DESCRIPTION
B1P1	818038.8141	3285638.9158	BENT 1 LT EXTERIOR PILE
B1P2	818039.4672	3285648.3934	BENT 1 LT INTERIOR PILE
B1P3/CL	818040.1202	3285657.8709	BENT 1 CL RDWY AT CL BRG PILE
B1P4	818040.7732	3285667.3484	BENT 1 RT INTERIOR PILE
B1P5	818041.4263	3285676.8259	BENT 1 RT EXTERIOR PILE
P2P1	818067.2667	3285636.9553	PIER 2 LT EXTERIOR PILE
P2P2	818067.9197	3285646.4329	PIER 2 LT INTERIOR PILE
P2P3/CL	818068.5727	3285655.9104	PIER 2 CL RDWY AT CL BRG PILE
P2P4	818069.2258	3285665.3879	PIER 2 RT INTERIOR PILE
P2P5	818069.8788	3285674.8655	PIER 2 RT EXTERIOR PILE
P3P1	818096.5173	3285634.9399	PIER 3 LT EXTERIOR PILE
P3P2	818097.1704	3285644.4174	PIER 3 LT INTERIOR PILE
P3P3/CL	818097.8234	3285653.8949	PIER 3 CL RDWY AT CL BRG PILE
P3P4	818098.4764	3285663.3724	PIER 3 RT INTERIOR PILE
P3P5	818099.1295	3285672.8500	PIER 3 RT EXTERIOR PILE
P4P1	818125.7680	3285632.9244	PIER 4 LT EXTERIOR PILE
P4P2	818126.4210	3285642.4019	PIER 4 LT INTERIOR PILE
P4P3/CL	818127.0740	3285651.8794	PIER 4 CL RDWY AT CL BRG PILE
P4P4	818127.7271	3285661.3570	PIER 4 RT INTERIOR PILE
P4P5	818128.3801	3285670.8345	PIER 4 RT EXTERIOR PILE
B5P1	818154.2205	3285630.9639	BENT 5 LT EXTERIOR PILE
B5P2	818154.8735	3285640.4414	BENT 5 LT INTERIOR PILE
B5P3/CL	818155.5266	3285649.9189	BENT 5 CL RDWY AT CL BRG PILE
B5P4	818156.1796	3285659.3965	BENT 5 RT INTERIOR PILE
B5P5	818156.8327	3285668.8740	BENT 5 RT EXTERIOR PILE

NOTE: All pile coordinates are at center of pile.

SHEET NO. B4

FOOTING PLAN

SCALE: As Noted

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

	REVISED	REVISED	REVISED	REVISED	CHECKED	DRAWN	DESIGNED
					S.A.W.	D.G.G.	T.E.S.
					7-23-25	9-27-24	10-20-23

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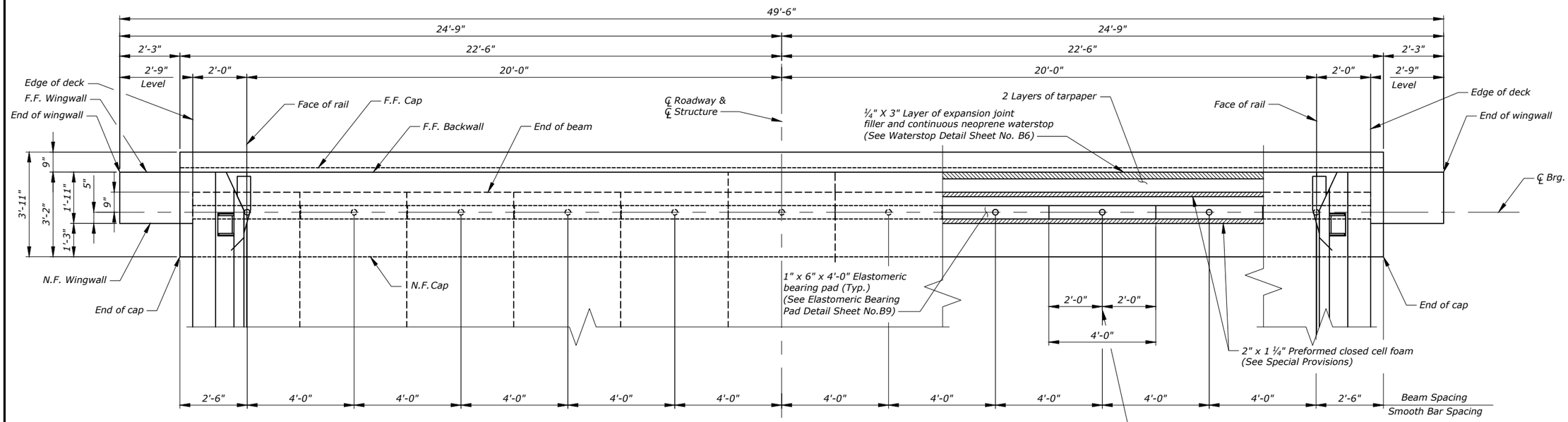
MONTANA Department of Transportation
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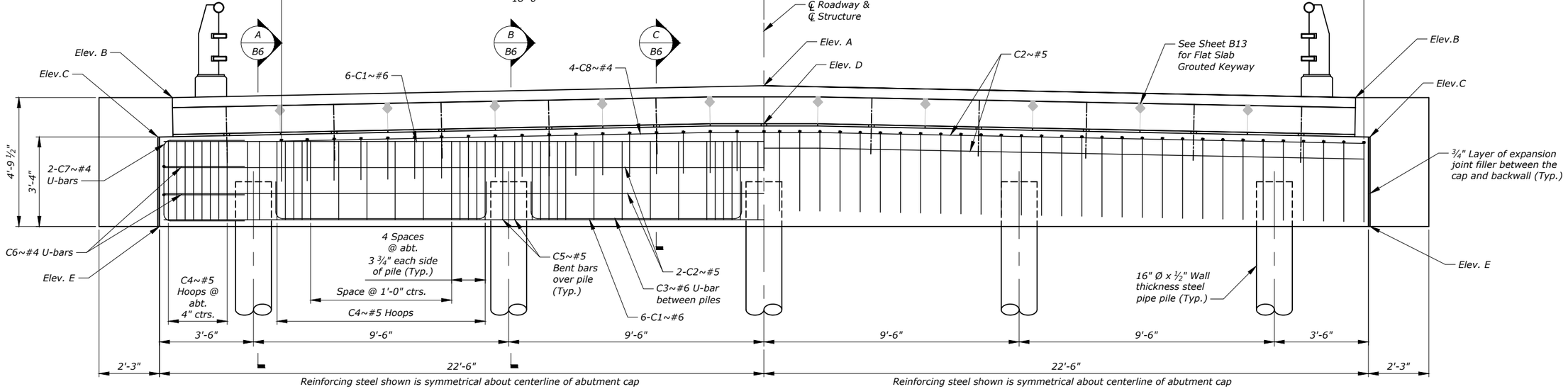
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Docusign Envelope ID: FCD789DB-ACE9-4DFD-8CDD-291F5D532B30



ABUTMENT PLAN

Bent No. 1 shown back on line
Bent No. 5 shown ahead in line



ABUTMENT ELEVATION

Bent No. 1 shown back on line
Bent No. 5 shown ahead in line

NOTES:

1 ½" Ø Smooth bars meeting the requirements of AASHTO M270 Grade 36. Include all costs associated with furnishing and placing smooth bars in the unit price bid for Prestressed Girder - Slab.

Deck, beam, backwall and wingwall steel are omitted for clarity. See Sheet Nos. B11, B12, and B13 for more details.

TABLE OF ELEVATIONS

ELEVATION	BENT NO. 1	BENT NO. 5
A	2928.44	2928.29
B	2928.00	2927.85
C	2926.53	2926.38
D	2926.94	2926.79
E	2923.19	2923.05

SHEET NO. B5

BENT NO. 1 & NO. 5

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

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

REVISED		
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REVISED		
CHECKED	S.A.W.	7-23-25
DRAWN	D.G.G.	9-27-24
DESIGNED	L.E.S.	10-20-23

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MONTANA Department of Transportation
BRIDGE BUREAU

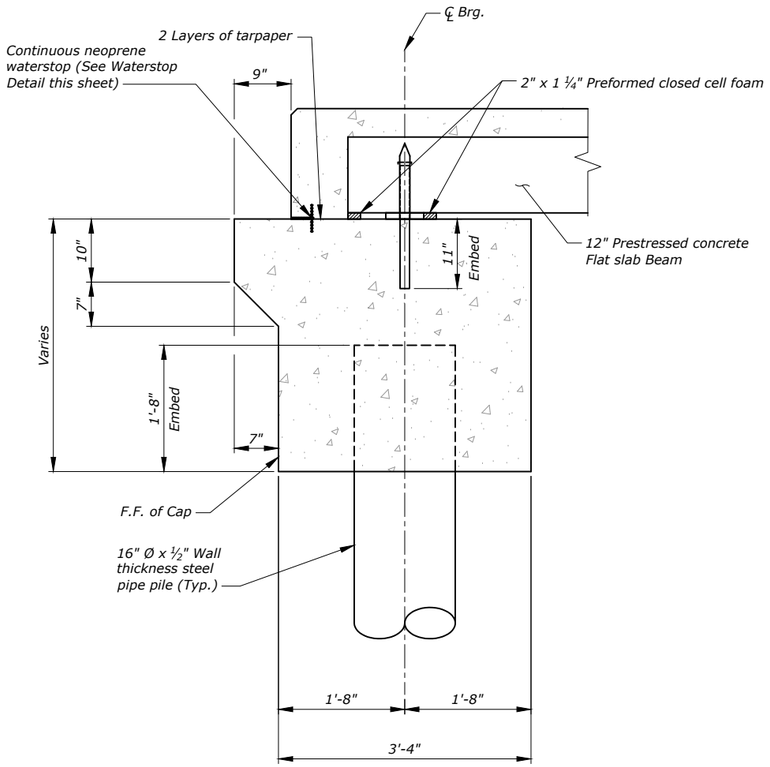
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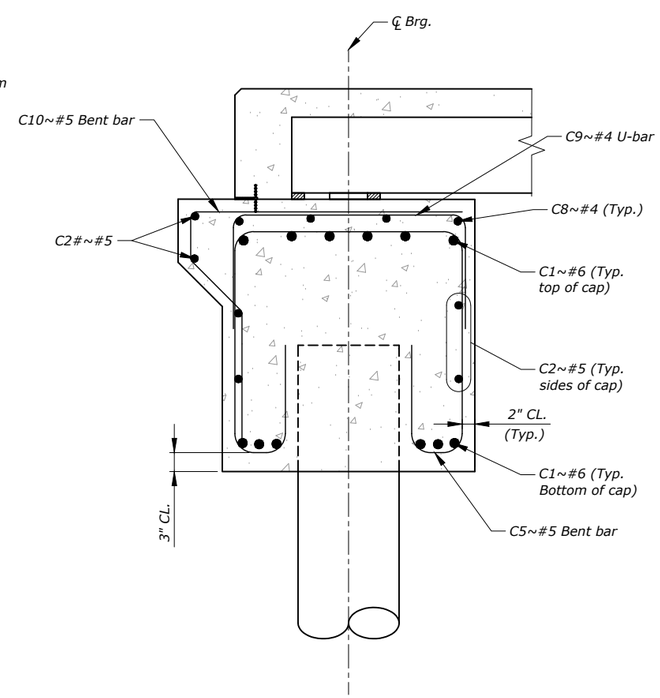
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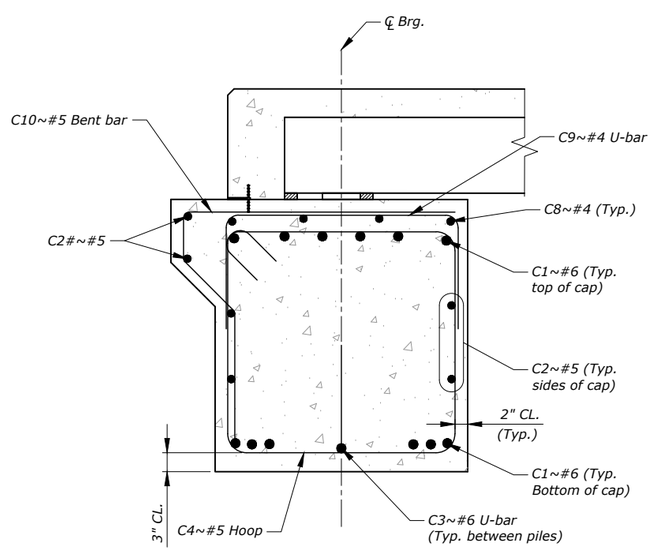
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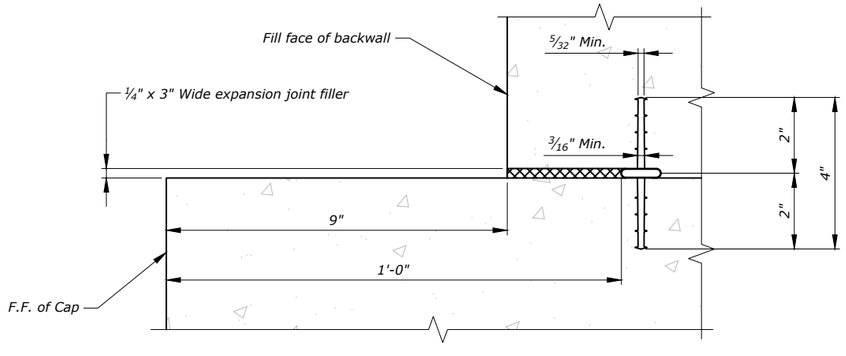
A / B5 **ABUTMENT SECTION**
Scale: 1/2" = 1'-0"



B / B5 **ABUTMENT REINFORCING AT PILES**
Scale: 1/2" = 1'-0"



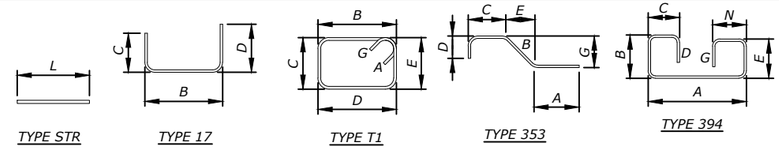
C / B5 **ABUTMENT REINFORCING BETWEEN PILES**
Scale: 1/2" = 1'-0"



WATERSTOP DETAIL
No Scale

NOTE: Hold waterstop in accurate position while placing concrete.

BILL OF REINFORCING STEEL (FOR ONE BENT ONLY) (ALL DIMENSIONS ARE OUT TO OUT)



TYPE STR | TYPE 17 | TYPE T1 | TYPE 353 | TYPE 394

Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
C1	#6	12	STR	44'-8"							
C2	#5	6	STR	44'-8"							
C3	#6	4	17	10'-7"		7'-9"	1'-5"	1'-5"			
C4	#5	72	T1	12'-9"	0'-5 ½"	3'-0"	2'-11"	3'-0"	2'-11"	0'-5 ½"	
C5	#5	10	394	13'-0"	3'-0"	2'-11"	0'-8"	1'-5"	2'-11"	1'-5"	0'-8"
C6	#4	4	17	9'-0"		3'-0"	3'-0"	3'-0"			
C7	#4	4	17	8'-11"		2'-11"	3'-0"	3'-0"			
C8	#4	4	STR	36'-0"							
C9	#4	37	17	6'-0"		3'-0"	1'-6"	1'-6"			
C10	#5	61	353	6'-8 ½"	1'-8"	0'-11 ½"	0'-6"	3'-7"	0'-8"	0'-8 ½"	

SHEET NO. B6

BENT NO. 1 & NO. 5 DETAILS

SCALE: As Noted

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

MDT STRUCTURE ID **05697**

AT STA. 20+00.55

FEDERAL AID PROJECT **STPB 27-2(26)36**

COUNTY **FALLON**

CHECKED	S.A.W.	7-23-25
DRAWN	D.G.G.	9-27-24
DESIGNED	T.E.S.	10-20-23

REVISED | REVISED | REVISED | REVISED

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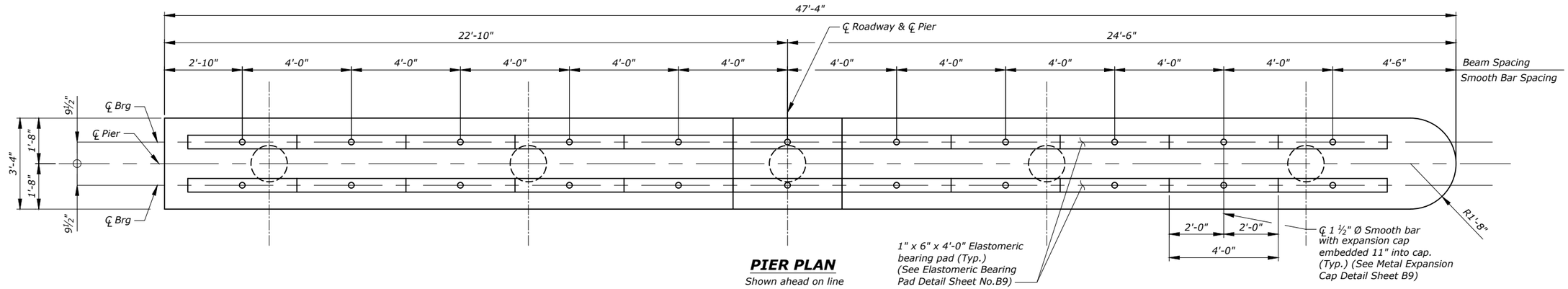
MONTANA Department of Transportation — BRIDGE BUREAU

UPN NUMBER 9682000

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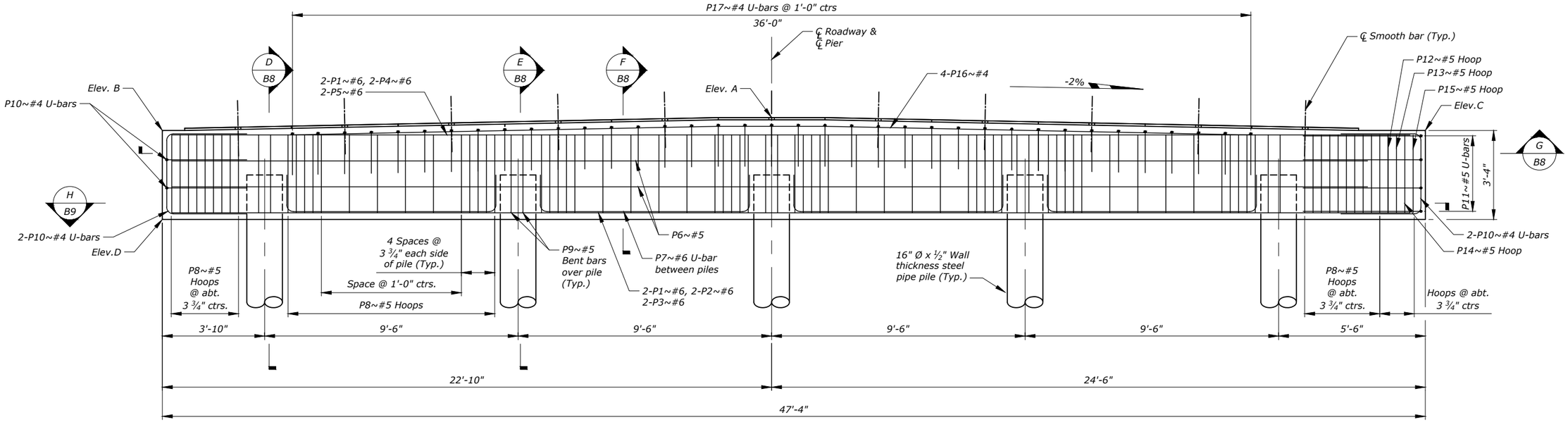
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PIER PLAN

Shown ahead on line



PIER ELEVATION

Shown ahead on line

TABLE OF ELEVATIONS

ELEVATION	PIER NO. 2	PIER NO. 3	PIER NO. 4
A	2926.90	2926.87	2926.83
B	2926.49	2926.45	2926.41
C	2926.45	2926.42	2926.38
D	2923.12	2923.08	2923.05

SHEET NO. B7

PIER NO. 2, NO. 3 & NO. 4

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

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

REVISED			CHECKED	S.A.W.	7-23-25
REVISED			DRAWN	D.G.G.	2-27-24
REVISED			DESIGNED	L.E.S.	10-20-23

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MONTANA Department of Transportation

BRIDGE BUREAU

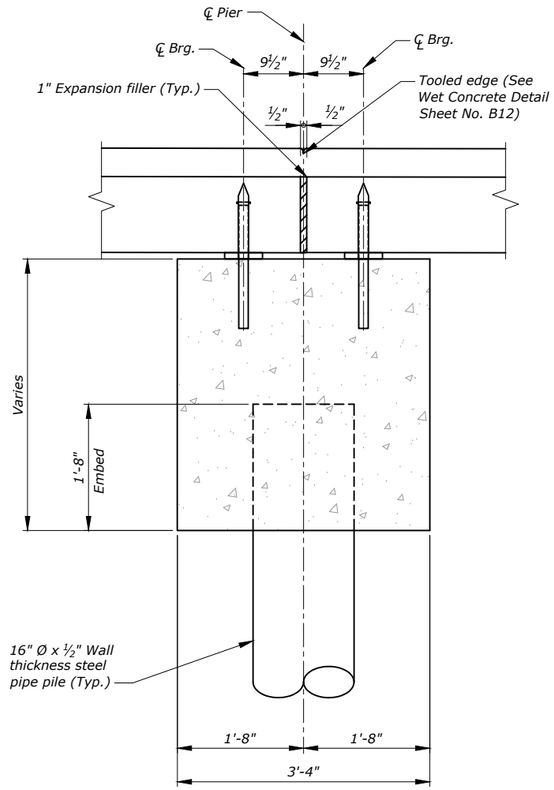
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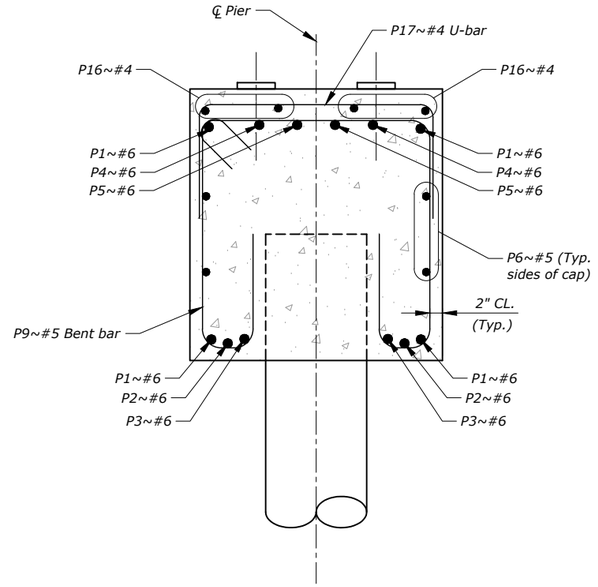
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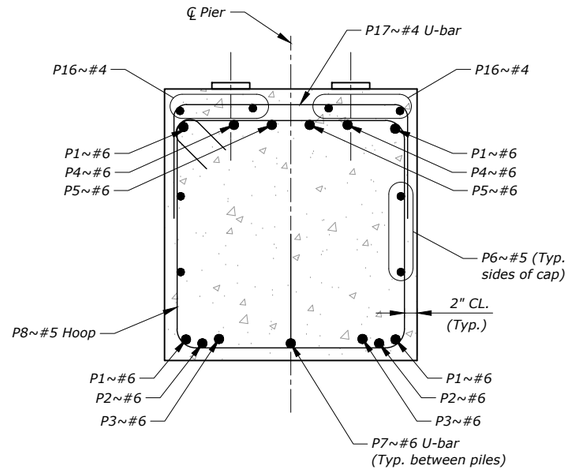
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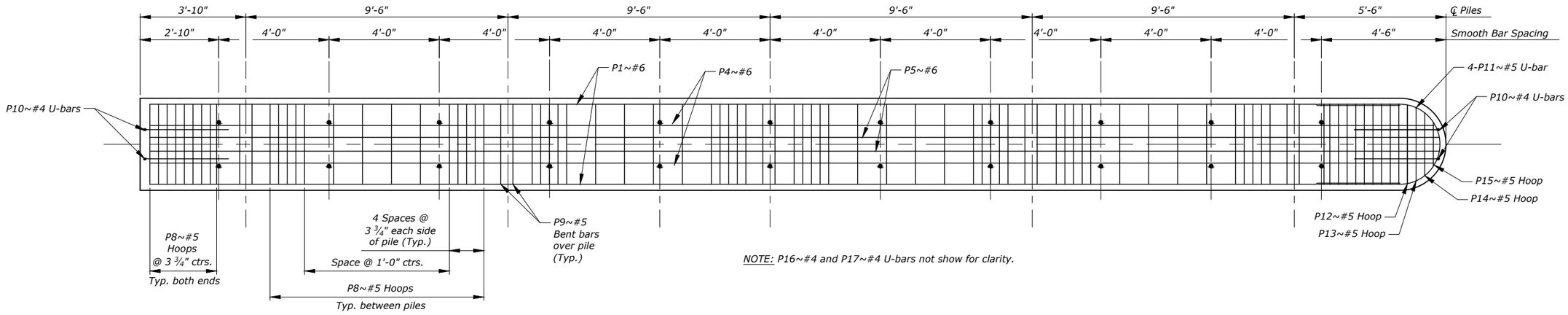
D / B7 **PIER SECTION**
Scale: 1/2" = 1'-0"



E / B7 **PIER REINFORCING AT PILES**
Scale: 1/2" = 1'-0"



F / B7 **PIER REINFORCING BETWEEN PILES**
Scale: 1/2" = 1'-0"



NOTE: P16~#4 and P17~#4 U-bars not show for clarity.

G / B7 **TOP PIER CAP REINFORCING**
Scale: 1/4" = 1'-0"

SHEET NO. B8

PIER NO. 2, NO. 3 & NO. 4 DETAILS

SCALE: As Noted

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

CHECKED	S.A.W.	7-23-25	
DRAWN	D.G.G.	7-27-24	
DESIGNED	J.E.S.	10-20-23	
REVISED			
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REVISED			

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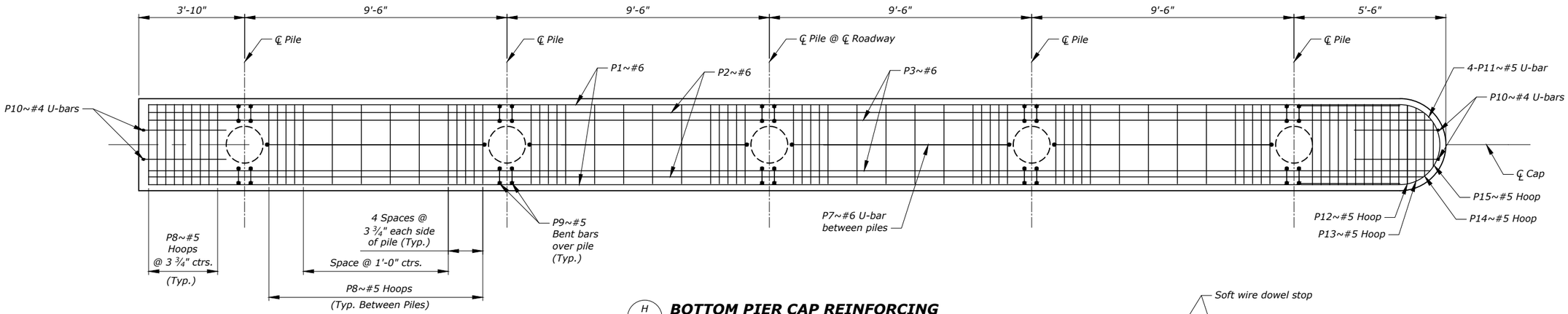
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BRIDGE BUREAU

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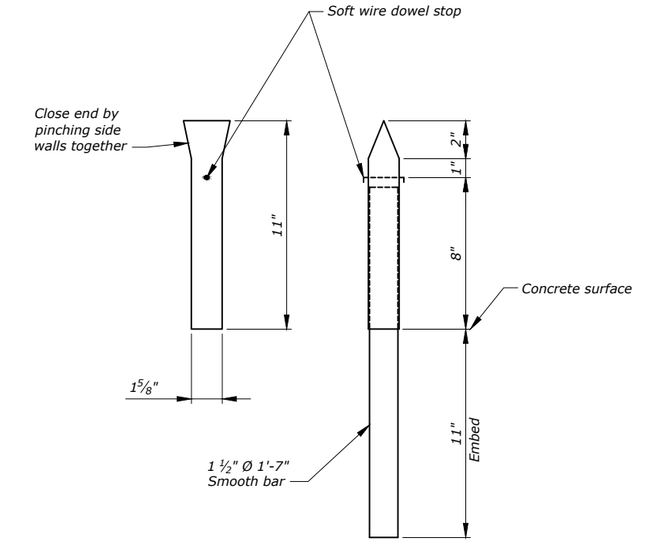
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H / B7 **BOTTOM PIER CAP REINFORCING**

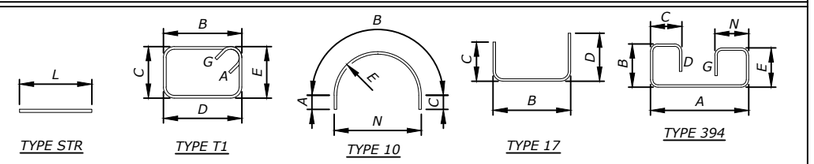
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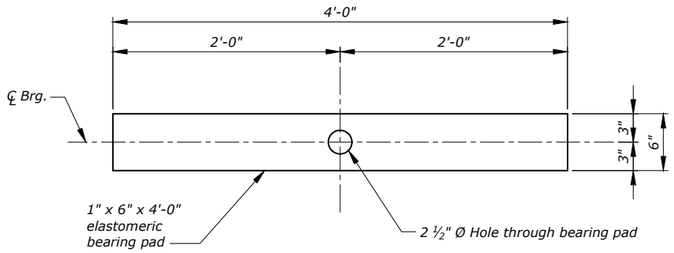
METAL EXPANSION CAP DETAIL

Scale ~ 1 ½" = 1'-0"

BILL OF REINFORCING STEEL (FOR ONE PIER ONLY) (ALL DIMENSIONS ARE OUT TO OUT)



Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
P1	#6	4	STR	45'-4"							
P2	#6	2	STR	46'-2"							
P3	#6	2	STR	46'-5 ½'							
P4	#6	2	STR	46'-6"							
P5	#6	2	STR	46'-9"							
P6	#5	4	STR	45'-4"							
P7	#6	4	17	10'-8"		7'-10"	1'-5"	1'-5"			
P8	#5	76	T1	12'-11"	0'-5 ½"	3'-0"	3'-0"	3'-0"	3'-0"	0'-5 ½"	
P9	#5	10	394	13'-2"	3'-0"	3'-0"	0'-8"	1'-5"	3'-0"	1'-5"	0'-8"
P10	#4	6	17	8'-10 ½"		2'-10 ½"	3'-0"	3'-0"			
P11	#5	4	10	11'-8"	3'-7"	4'-6"	3'-7"		1-5"		2'-10"
P12	#5	1	T1	12'-7"	0'-5 ½"	2'-10"	3'-0"	2'-10"	3'-0"	0'-5 ½"	
P13	#5	1	T1	12'-3"	0'-5 ½"	2'-8"	3'-0"	2'-8"	3'-0"	0'-5 ½"	
P14	#5	1	T1	11'-5"	0'-5 ½"	2'-3"	3'-0"	2'-3"	3'-0"	0'-5 ½"	
P15	#5	1	T1	10'-1"	0'-5 ½"	1'-7"	3'-0"	1'-7"	3'-0"	0'-5 ½"	
P16	#4	4	STR	36'-0"							
P17	#4	37	17	6'-0"		3'-0"	1'-6"	1'-6"			



ELASTOMERIC BEARING PAD DETAIL

Scale ~ 1" = 1'-0"

NOTE: See Special Provisions.

NOTE: Use elastomer meeting the requirements of low temperature Grade 4, 60 durometer hardness on the shore A scale for bearing pads.

SHEET NO. B9

PIER DETAILS AND BILL OF REINFORCING STEEL

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

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

MDT STRUCTURE ID **05697**

AT STA. 20+00.55

FEDERAL AID PROJECT **STPB 27-2(26)36**

COUNTY **FALLON**

REVISED				CHECKED	S.A.W.	7-23-25
REVISED				DRAWN	D.G.G.	9-27-24
REVISED				DESIGNED	L.E.S.	10-20-23

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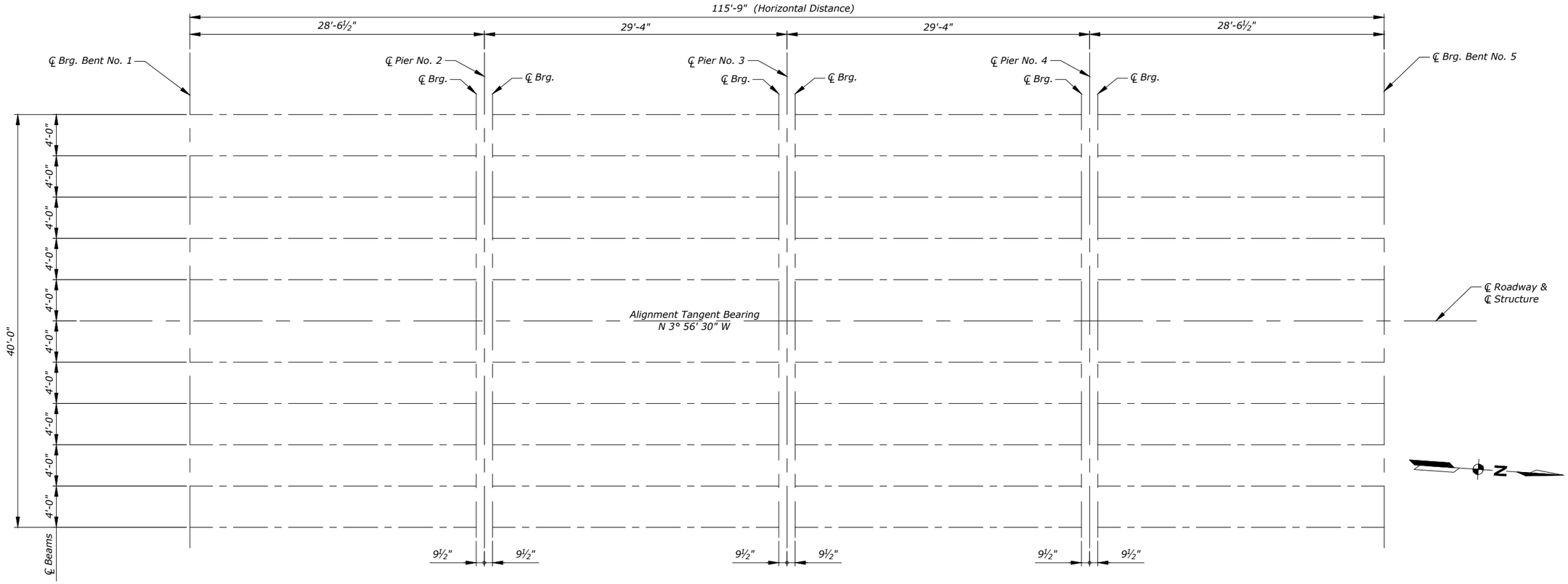
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ERECTION PLAN

PRESTRESSED BEAM LOAD TABLE		
LOAD TYPE	**LOADS**	**APPLICATION METHOD**
Barrier Load	0.184 kip/ft per rail	Equally to all beams
Future Wearing Surface	10 lb/sq ft applied between curbs	Equally to all beams
Additional Dead Load	--------	--------
Live Load	LRFD - HL-93	per AASHTO LRFD

✱ NOTE: Do not apply Silane Sealer to top of Prestressed Flat Slab concrete beam surface.

PRESTRESSED BEAM DESIGN PARAMETERS	
AASHTO Specification	LRFD 8th Edition with 2017 Interims
Structure Type	Simple Span
Deck Concrete Strength	4000 psi
Deck Concrete Density	150 lb/cu ft
Prestressing Strand	270 ksi Low Relaxation - (0.500" or 0.600" diameter)
Shear Reinforcing:	AASHTO M 31 Grade 60
Alternate Shear Reinforcing	Welded Wire Reinforcement - AASHTO M5S, M221, or MS4
Section Property Calculations	Gross Sections
Prestess Loss Method	Approximate Losses per LRFD 5.9.3 and 5.9.3.3
Shear Computation Method	Sectional Model per LRFD 5.7.3
Beam / Deck Interface	Intentionally Roughened to ¼" amplitude (Do Not add any surface treatment to the top of beam)
Load Rating Requirements	AASHTO LRFD Design Load

SHEET NO.
B10

ERECTION PLAN

SCALE: 3/32" = 1'-0"

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

CHECKED	S.A.W.	7-23-25
DRAWN	D.G.G.	9-27-24
DESIGNED	L.E.S.	10-20-23

REVISED
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MONTANA
Department of Transportation
BRIDGE BUREAU

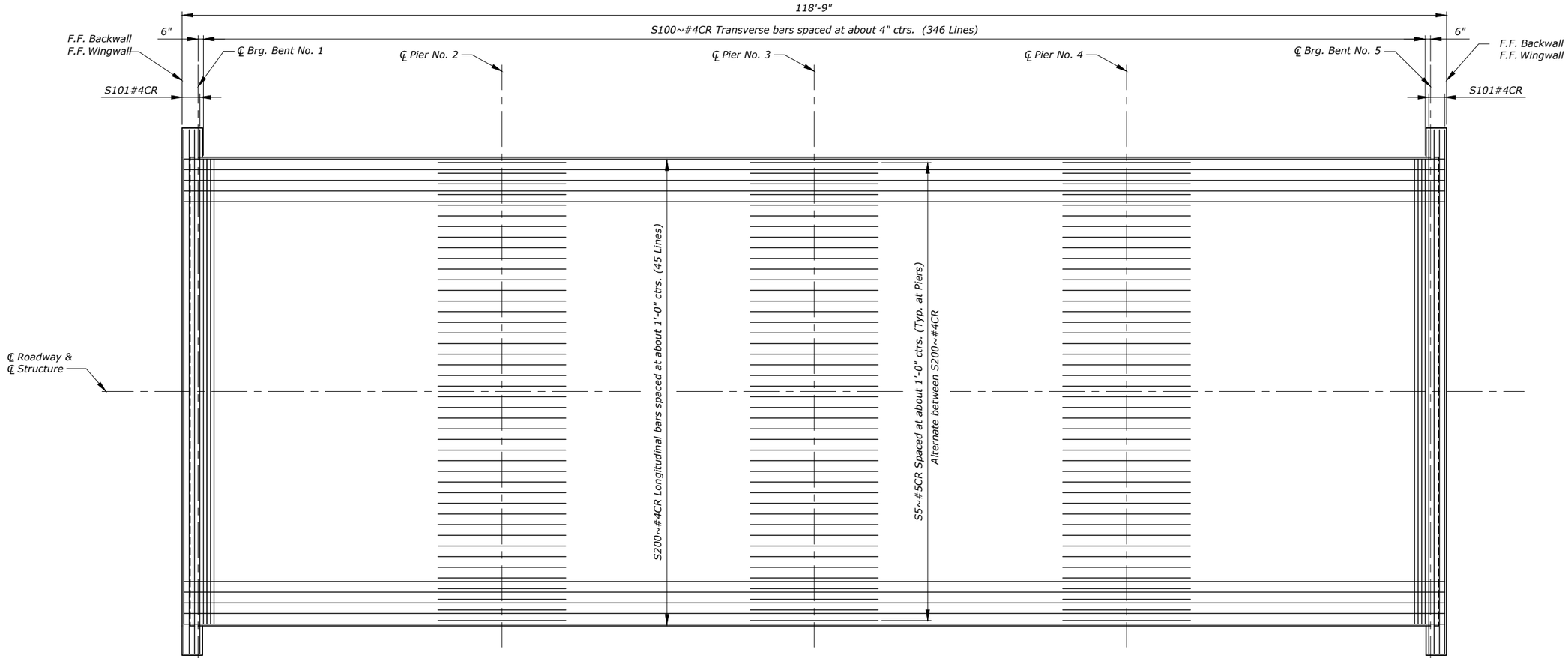
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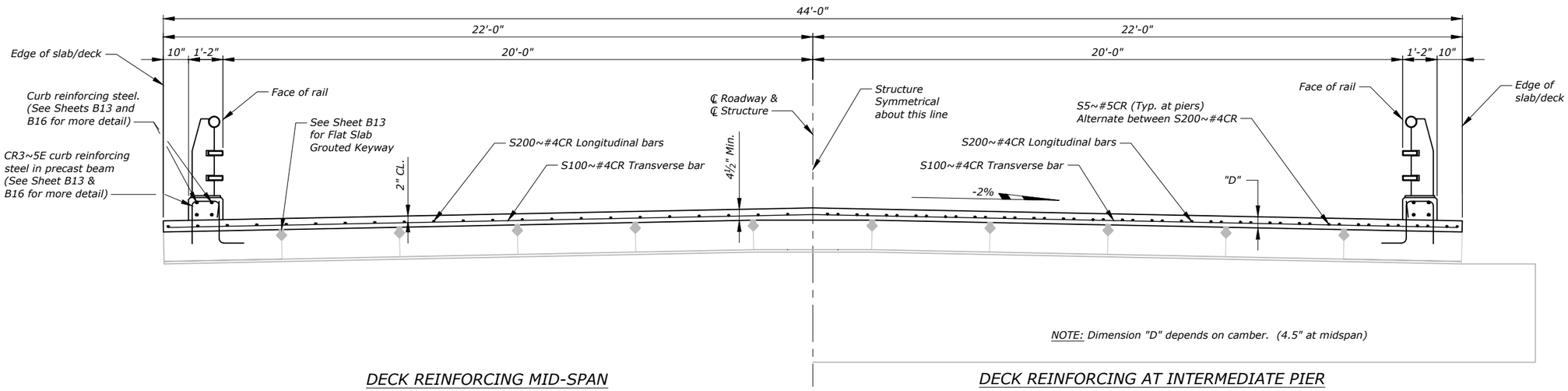
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DECK REINFORCING DIAGRAM

Scale ~ $^{3}/_{32}$" = 1'-0"



TRANSVERSE SECTION

Scale ~ ¼" = 1'-0"

SHEET NO.
B11

DECK DETAILS

SCALE: As Noted

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
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REVISED		
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REVISED		
CHECKED	S.A.W.	7-23-25
DRAWN	D.G.G.	9-27-24
DESIGNED	J.E.S.	10-20-23

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MONTANA Department of Transportation
BRIDGE BUREAU

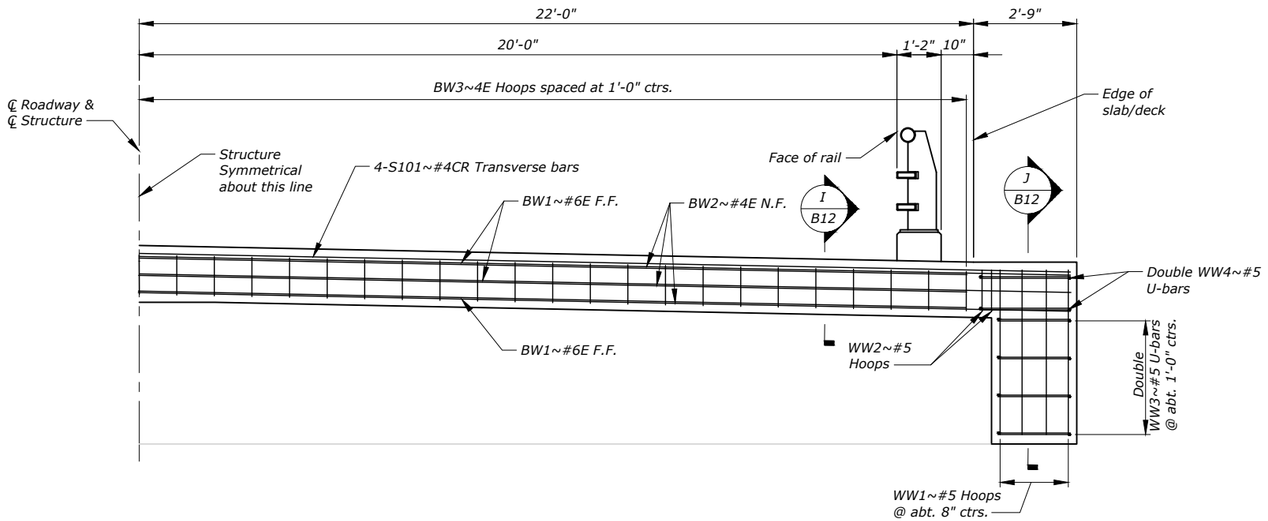
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9682000

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21021

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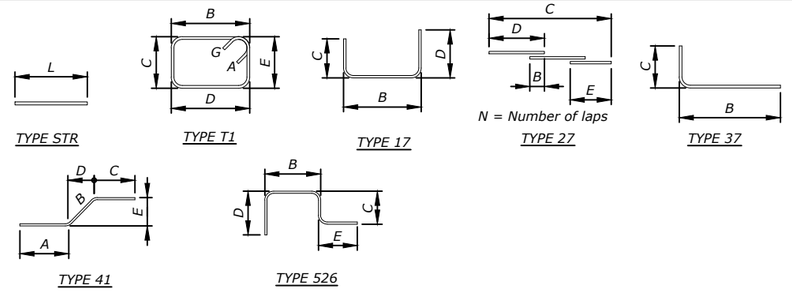


PARTIAL TRANSVERSE SECTION BACKWALL AND WINGWALL

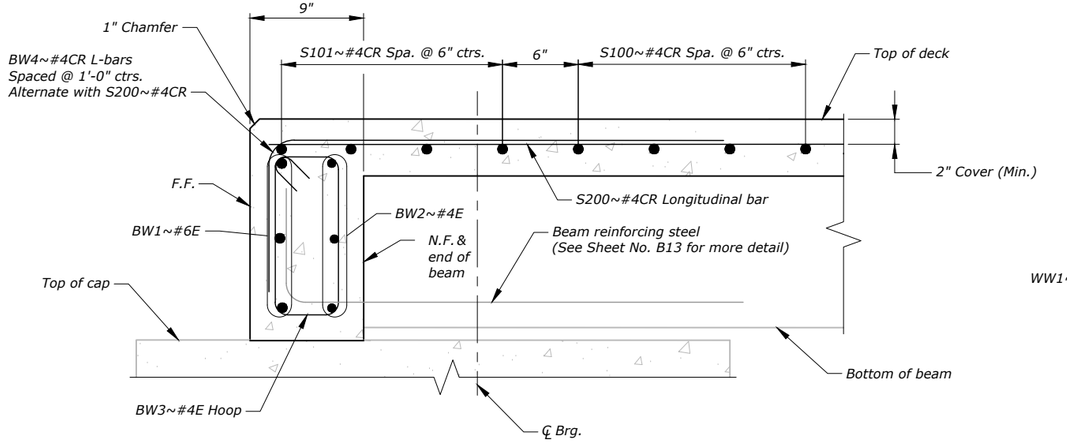
Scale ~ ¼" = 1'-0"

BILL OF REINFORCING STEEL

(ALL DIMENSIONS ARE OUT TO OUT)

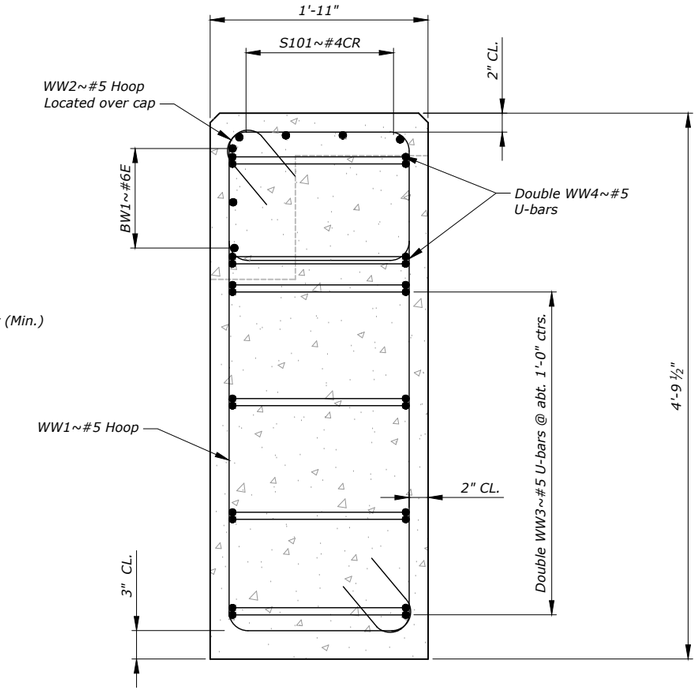


Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
S100	#4CR	346	STR	43'-8"							
S101	#4CR	8	STR	49'-2"							
S200	#4CR	45	27	124'-9"		3'-2"	118'-5"	50'-0"	24'-9"		2
S5	#5CR	132	STR	12'-0"							
BW1	#6E	6	STR	49'-2"							
BW2	#4E	6	STR	43'-8"							
BW3	#4E	90	T1	3'-11"	0'-5 ½"	0'-5"	1'- 1"	0'-5"	1'- 1"	0'-5 ½"	
BW4	#4CR	90	37	4'-0"		3'-0"	1'-0"				
WW1	#5	16	T1	12'-10"	0'-5 ½"	1'-7"	4'- 4 ½"	1'-7"	4'- 4 ½"	0'-5 ½"	
WW2	#5	8	T1	6'-4"	0'-5 ½"	1'-7"	1'- 1 ½"	1'-7"	1'- 1 ½"	0'-5 ½"	
WW3	#5	32	17	5'-3 ½"		1'-5 ½"	1'- 11"	1'-11"			
WW4	#5	16	17	6'-3 ½"		1'-5 ½"	2'- 5"	2'-5"			



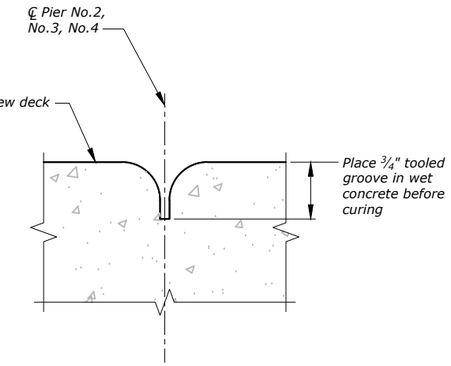
I / B12 ***LONGITUDINAL DECK END SECTION***

Scale: 1" = 1'-0"



J / B12 ***WINGWALL SECTION***

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



WET CONCRETE DETAIL

No Scale

SHEET NO. B12

DECK DETAILS AND BILL OF REINFORCING STEEL

SCALE: As Noted

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

CHECKED	S.A.W.	7-23-25	
DRAWN	D.G.G.	9-27-24	
DESIGNED	J.E.S.	10-20-23	

REVISED
REVISED
REVISED
REVISED

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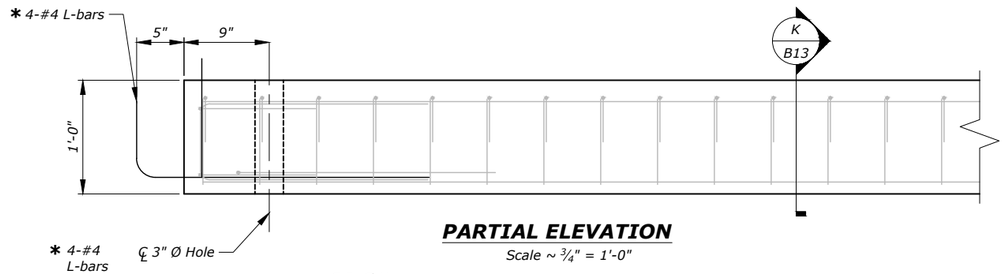
MONTANA Department of Transportation
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UPN NUMBER
9682000

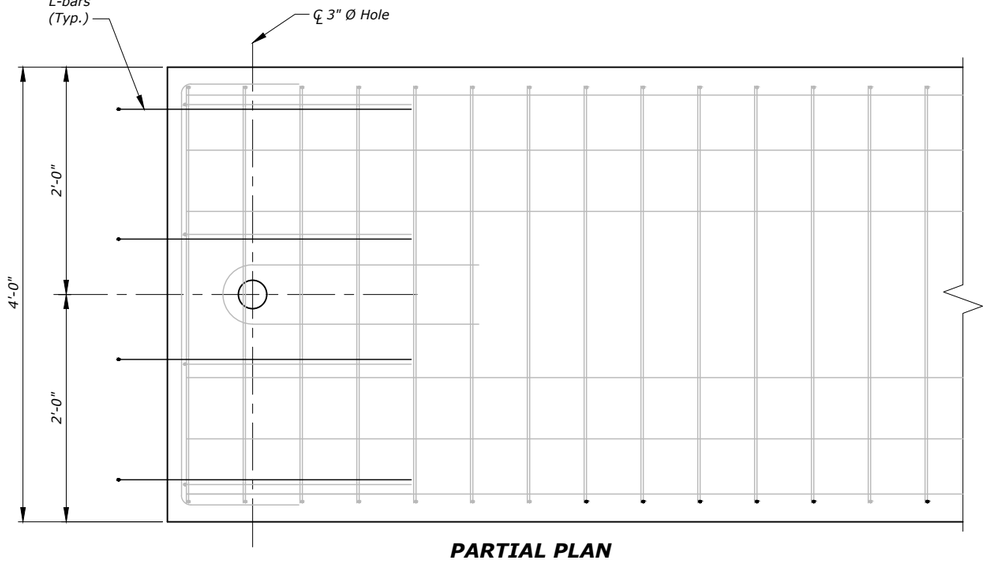
DRAWING NO.
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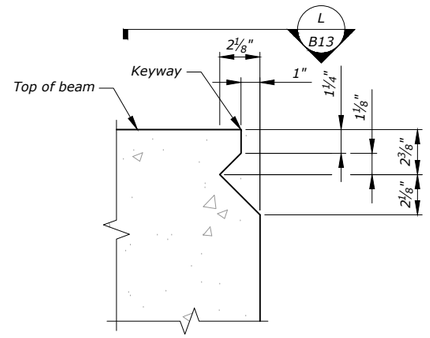


PARTIAL ELEVATION
Scale ~ ¾" = 1'-0"



PARTIAL PLAN
Scale ~ ¾" = 1'-0"

* NOTE: Prestressing strand may be used in lieu of #4 L-bars.



FLAT SLAB GROUTED KEYWAY
Scale ~ 3" = 1'-0"

NOTE: Alternative grouted keyway shapes will be allowed upon approval.

NOTES:

PRESTRESSING STEEL: Use 0.500" diameter or 0.600" diameter 7 wire strand prestressing steel.

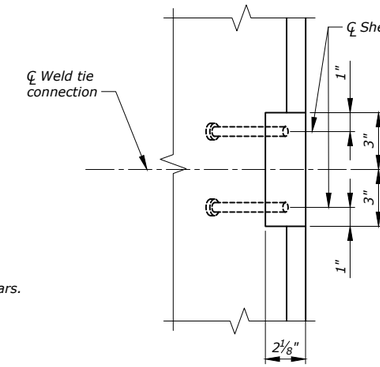
HARDWARE: Threaded inserts, hold down devices, lifting devices, leveling inserts, and any other hardware which is to be incorporated in the beam will be approved by the Engineer before fabrication has begun. (See Standard Specifications 553)

BEAM LENGTH: Increase the overall length of the beam to allow for elastic shortening, shrinkage and creep.

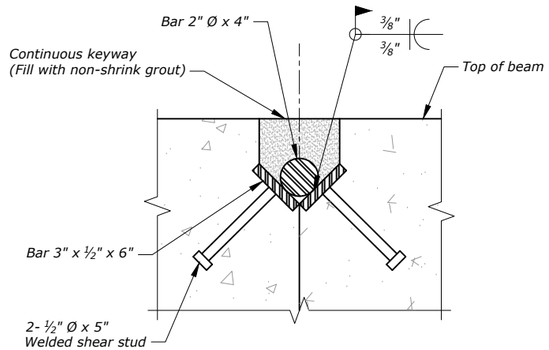
SHEAR REINFORCING: Fabricator will provide interface shear, end reinforcement, and shear steel to meet the requirements of the AASHTO code specified on Sheet B2, and B10.

VARIATIONS: Variations in the general shape of the deck width or span lengths from those shown on the Bridge drawings are not allowed without the approval of the Engineer. Obtain approval from the Engineer for any variation requiring the alteration as shown on the Bridge drawing.

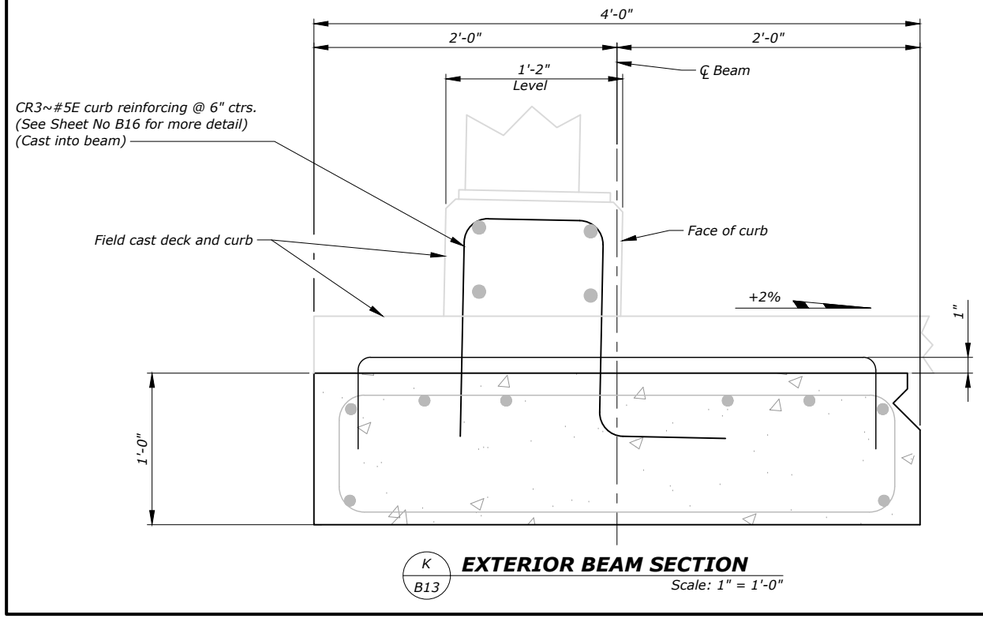
BRIDGE RAIL: See Bridge Plans for the type of rail used and for any anchorages and reinforcing incorporated into the beam.



L / B13 **VIEW L**
Scale: 3" = 1'-0"

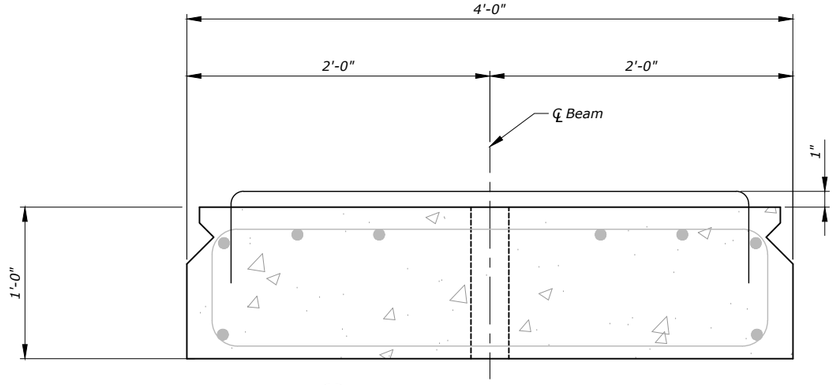


WELD TIE CONNECTION DETAIL
Scale ~ 3" = 1'-0"



K / B13 **EXTERIOR BEAM SECTION**
Scale: 1" = 1'-0"

NOTE: Curb concrete to be the same mix as used for deck.



K / B13 **INTERIOR BEAM SECTION**
Scale: 1" = 1'-0"

SHEET NO.
B13

PRESTRESSED SLAB DETAILS

SCALE: As Noted

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

MDT STRUCTURE ID
05697
AT STA. 20+00.55

FEDERAL AID PROJECT
STPB 27-2(26)36

COUNTY
FALLON

REVISED		
REVISED		
REVISED		
REVISED		
CHECKED	S.A.W.	7-23-25
DRAWN	D.G.G.	7-27-24
DESIGNED	J.E.S.	10-20-23

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BRIDGE BUREAU

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UPN NUMBER
9682000

DRAWING NO.
21023

Docusign Envelope ID: FCD789DB-ACE9-4DFD-8CDD-291F5D532B30

GENERAL NOTES:

PLACEMENT: Do not disturb the deck cure to construct the curb and rail.

ERECTION: Place rail posts as shown in details, perpendicular to adjacent roadway grade and vertical in relation to roadway cross slopes. Adjust the completed railing to compensate for any unevenness in the structure. Do not place railing on a span until centering or falsework is removed.

REFLECTORS: Place a white reflector on top of the top tube rail at equal spacing (not to exceed 30 foot spacing) between ends of rail. See Dtl. Dwg. No. 605-00 for reflector detail. Mount the reflector on the tube rail with an approved adhesive. Include the cost of reflectors in the unit price bid for 42 IN Open Rail - BR - CSC.

PAYMENT: Payment for 42 IN Open Rail - BR - CSC per linear foot includes compensation for the cost of Concrete - Class Structure Low Slump in the curb and for all resources necessary to complete the work. See the General Layout for the number of linear feet for payment of 42 IN Open Rail - BR - CSC.

RAIL WEIGHT: For informational purposes only, the rail weight is approximately:
Curb weight = 131.3 lb/ft
Curb volume = 0.875 cu. ft / ft
Rail weight = 52.9 lb/ft

CRASH TEST: This rail has been evaluated and approved to be of equal strength to railings with like geometry, which have been crash tested to meet MASH TL-4 criteria.

FABRICATION: For the purposes of fabrication, this rail system is considered an ancillary item. The requirements of subsection 1.3.7 of AASHTO/AWS D1.5 apply.

EXCEPTIONS: Use details shown on these sheets (Bridge Rail Type Open Rail 42" Sheet 1 - Bridge Rail Type Open Rail 42" Sheet 3) only as they apply to the project. Anchorage details may vary. Refer to other drawings for variations in these details.

MATERIALS: Use rail post plates and base plates conforming to AASHTO M 270 Grade 50 T3. Use AASHTO M 270 Grade 50 for all other plates and ASTM A500 Grade B for structural tubing.

CONCRETE STRENGTH: Do not place construction vehicles or equipment on the deck until the concrete has reached 90% of its specified 28-day compressive strength or without approval from the Project Manager.

GALVANIZING: Galvanize all bolts, nuts, washers and pipe sleeves in accordance with ASTM F 2329.

PAINTING: Paint all posts, structural tubing and plates (except as noted) in accordance with the Standard Specifications. Galvanizing the posts, structural tubing and plates in accordance with AASHTO M 111 will be allowed.

FIBER REINFORCED PADS: Use fiber reinforced pads meeting the requirements of subsection 711.16 of the Standard Specifications. Size and position the pads such that not less than ½" of the pad protrudes on all sides of the base plates. Punch holes in the pads to match base plate.

ANCHOR BOLTS: Use ⅞" Ø x 11½" Galvanized high strength bolts (ASTM F 3125 Grade A325) with heavy hex nut (ASTM A563 Grade DH) and galvanized hardened washer (2" thread, wrench tight, 4 required per post) for anchor bolts.

FINISHING: Finish top of curb under each rail post to a smooth and uniform surface to assure a proper alignment of the post and a tight fit between the fiber reinforced pad and concrete. Bush hammering is acceptable only to remove high spots.

RAILING:
Locate the splice on either side of post. Tube shop splices are not allowed. Do not provide a tube splice in first panel unless it crosses an expansion joint. Place expansion splice in rail such that it is positioned between the same rail posts as expansion joint.

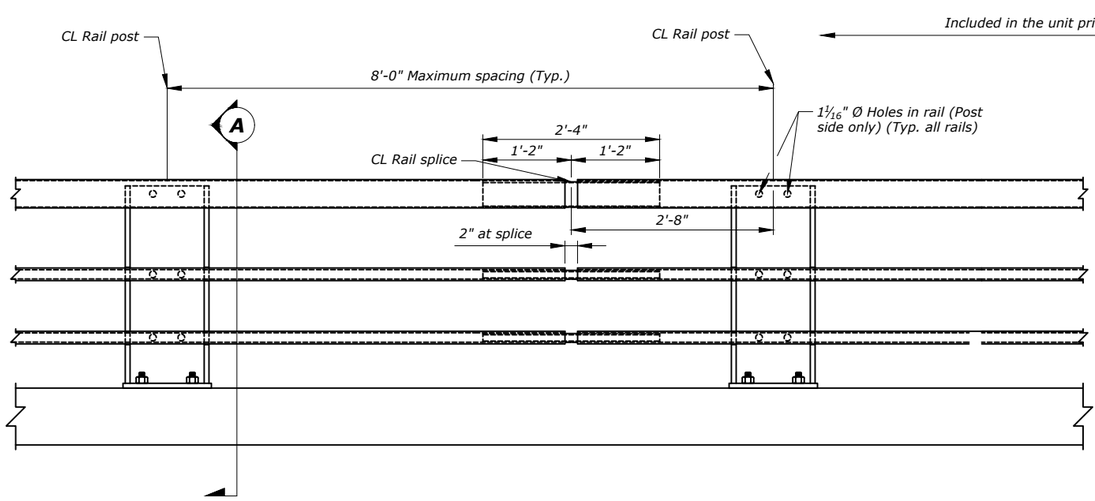
Attach panel lengths of tube members continuously to minimum of two posts (except at abutments with expansion joints).

Show vent and pickup holes in rail and sleeves on Fabricator's shop drawings. Place vent holes on the underside of the rail members as installed.

For Approach Plate details see detailed drawings.

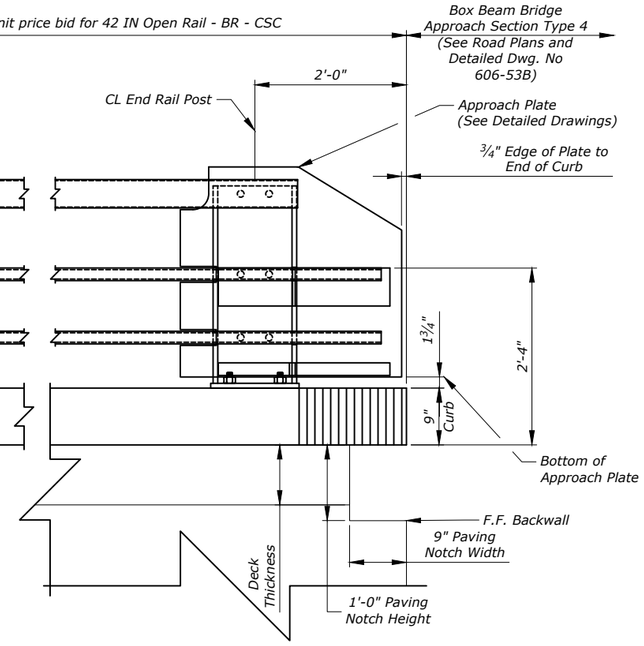
For curb end reinforcing details see Bridge Rail Type Open Rail 42" Sheet 3.

Fabricate rail tubing on a curve when face of rail radius is 600 feet or less.

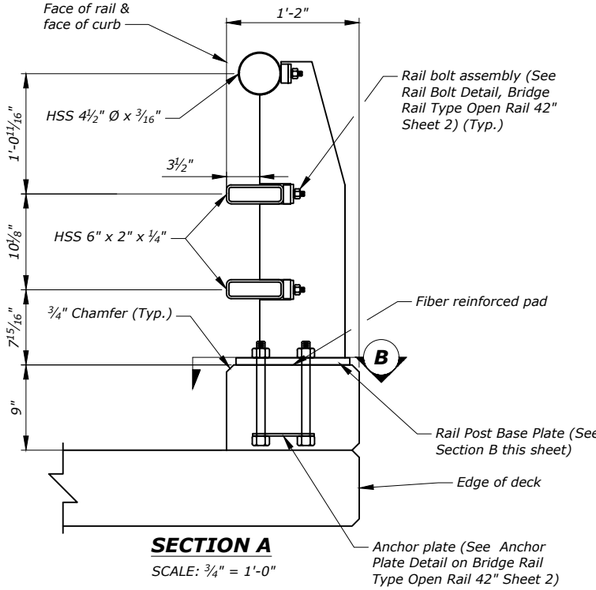


INSIDE ELEVATION OF RAIL

SCALE: ½" = 1'-0"

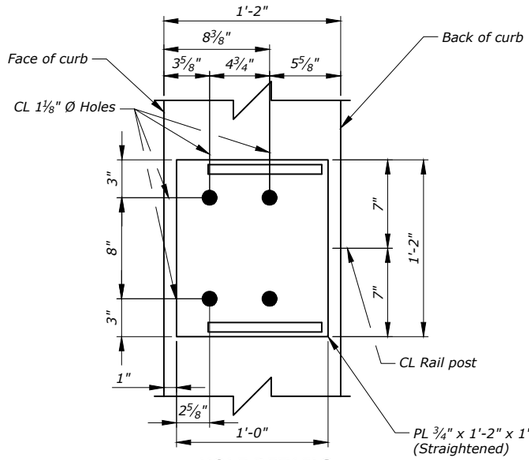


APPROACH PLATE END



SECTION A

SCALE: ¾" = 1'-0"

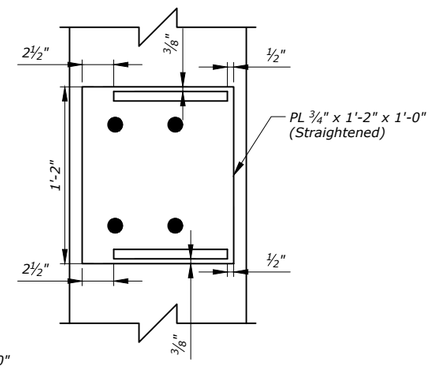


HOLE DETAILS

(Anchor bolts not shown)

SECTION B

SCALE: 1" = 1'-0"



RAIL POST BASE PLATE DETAILS

SHEET NO. B14

BRIDGE RAIL TYPE OPEN RAIL 42 INCH - SHEET 1

SCALE: AS NOTED

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

AT STATION
20+00.55

FEDERAL AID PROJECT
STPB 27+2(26)36

COUNTY
FALLON

REVISED					
REVISED					
REVISED			S.E.W.		
REVISED			12-04-24	T.J.B	
CHECKED			08-29-23		
DRAWN					
DESIGNED					

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MONTANA Department of Transportation
BRIDGE BUREAU

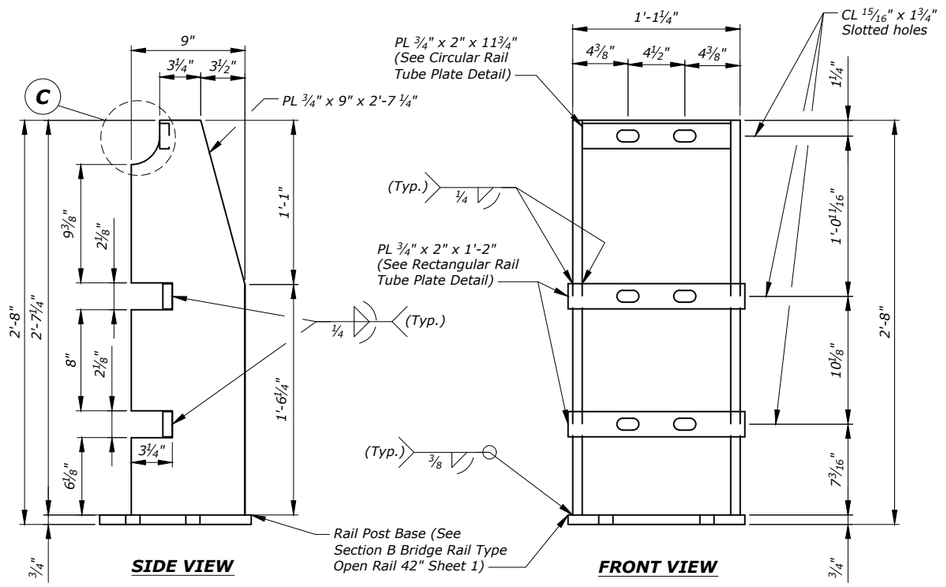
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UPN NUMBER
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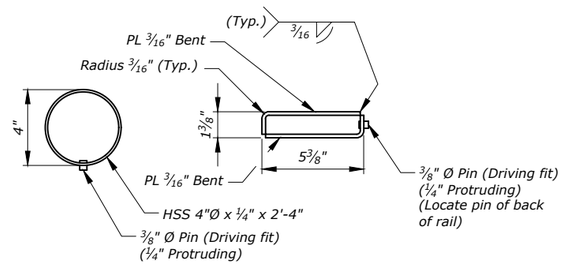
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RAIL POST DETAIL

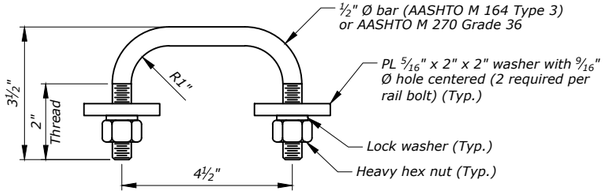
SCALE: 1" = 1'-0"



NOTE: Locate ⅜" Ø Pin at mid-length of sleeve.

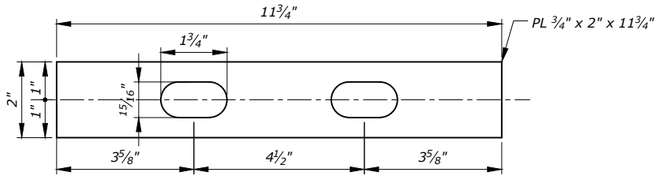
SLEEVE FABRICATION DETAILS

SCALE: 1 ½" = 1'-0"



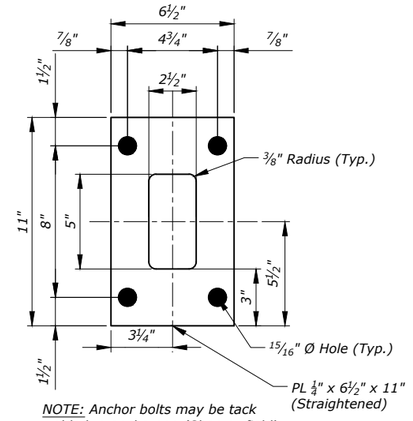
RAIL BOLT DETAIL

SCALE: 3" = 1'-0"



CIRCULAR RAIL TUBE PLATE DETAIL

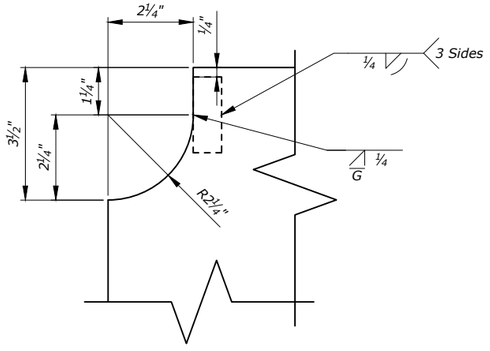
SCALE: 3" = 1'-0"



NOTE: Anchor bolts may be tack welded to anchorage (Shop or field)

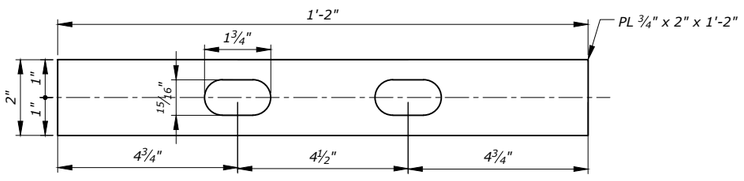
ANCHOR PLATE DETAIL

SCALE: 1" = 1'-0"



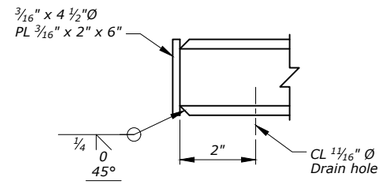
DETAIL C

SCALE: 3" = 1'-0"



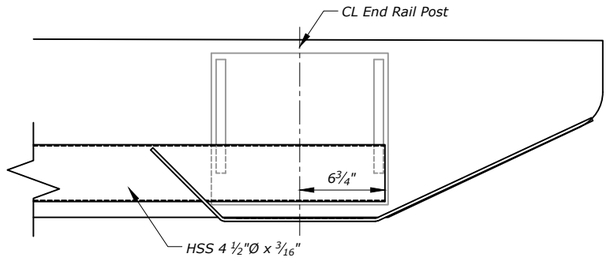
RECTANGULAR RAIL TUBE PLATE DETAIL

SCALE: 3" = 1'-0"



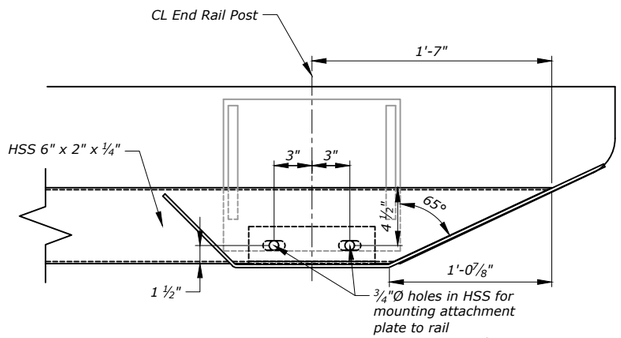
RAIL CAP DETAIL

SCALE: 3" = 1'-0"



RAIL END DETAIL HSS 4 ½"Ø x 3/16"

SCALE: 1" = 1'-0"



RAIL END DETAIL HSS 6" x 2" x ¼"

SCALE: 1" = 1'-0"

SHEET NO.
B15

BRIDGE RAIL TYPE OPEN RAIL 42 INCH - SHEET 2

SCALE: AS NOTED

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

AT STATION
20+00.55

FEDERAL AID PROJECT
STPB 27+2(26)36

COUNTY
FALLON

REVISED				
REVISED				
REVISED				
REVISED	12-04-24	S.E.W.		
CHECKED	08-29-23	T.J.B		
DRAWN				
DESIGNED				

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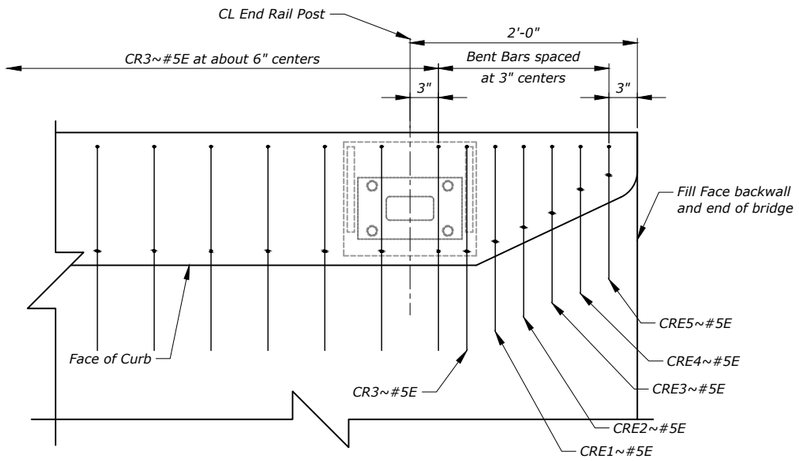
MONTANA Department of Transportation
BRIDGE BUREAU

UPN NUMBER
9682000

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21026

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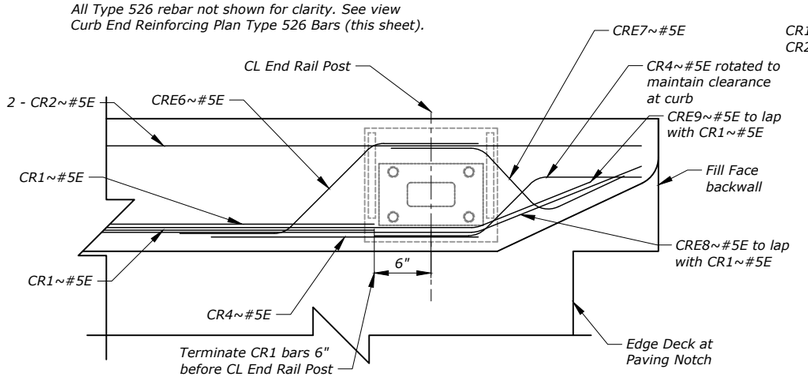
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Type 41, 42, 28, and 27 rebar not shown for clarity. See view Curb End Reinforcing Plan All Other Bars (this sheet).

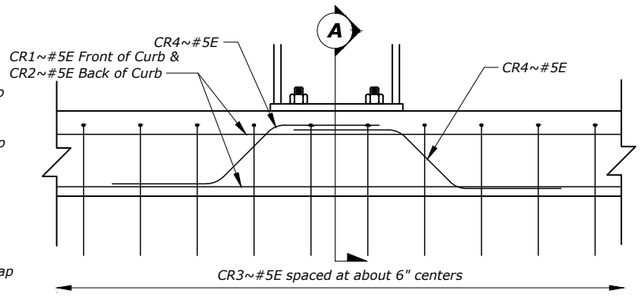
CURB END REINFORCING PLAN TYPE 526 BARS

SCALE: ¾" = 1'-0"



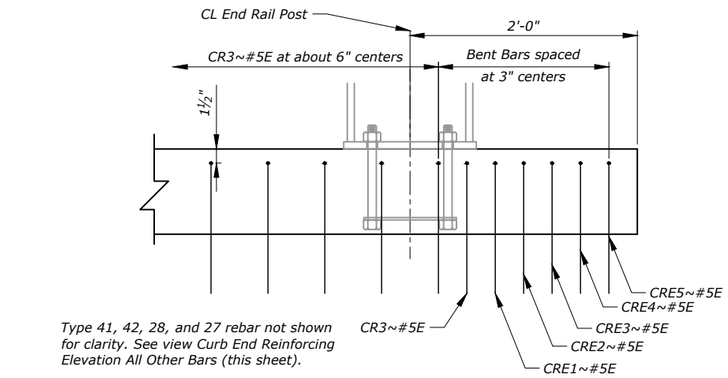
CURB END REINFORCING PLAN ALL OTHER BARS

SCALE: ¾" = 1'-0"



CURB REINFORCING AT RAIL POST ELEVATION

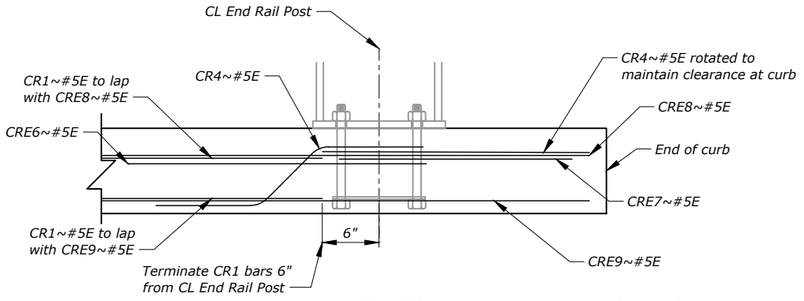
SCALE: ¾" = 1'-0"



Type 41, 42, 28, and 27 rebar not shown for clarity. See view Curb End Reinforcing Elevation All Other Bars (this sheet).

CURB END REINFORCING ELEVATION TYPE 526 BARS

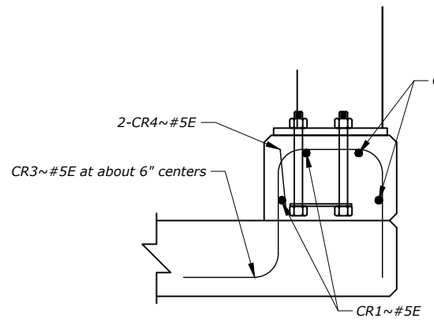
SCALE: ¾" = 1'-0"



All Type 526 rebar not shown for clarity. See view Curb End Reinforcing Elevation Type 526 Bars (this sheet).

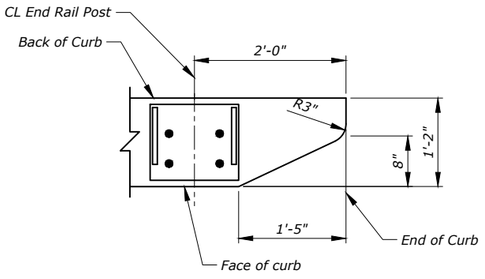
CURB END REINFORCING ELEVATION ALL OTHER BARS

SCALE: ¾" = 1'-0"



SECTION A

SCALE: ¾" = 1'-0"

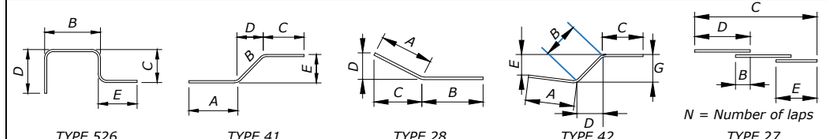


CURB END PLAN VIEW

SCALE: ½" = 1'-0"

BILL OF REINFORCING STEEL

FOR INFORMATIONAL PURPOSES ONLY
(ALL DIMENSIONS ARE OUT TO OUT)



Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
CR1	#5E	2	27	127'-6"		4'-0"	115'-6"	40'-0"	7'-6"		3
CR2	#5E	2	27	130'-5"		4'-0"	118'-5"	40'-0"	10'-5"		3
CR3	#5E	126	526	4'-0 ½"		0'-11"	1'-2"	1'-2"	0'-9 ½"		
CR4	#5E	18	41	2'-5"	0'-9 ½"	0'-10"	0'-9 ½"	0'-8"	0'-6"		
CRE1	#5E	2	526	3'-11 ½"		0'-10"	1'-2"	1'-2"	0'-9 ½"		
CRE2	#5E	2	526	3' -10"		0'-8½"	1'-2"	1'-2"	0'-9 ½"		
CRE3	#5E	2	526	3'-8 ½"		0'-7"	1'-2"	1'-2"	0'-9 ½"		
CRE4	#5E	2	526	3'-7"		0'-5 ½"	1'-2"	1'-2"	0'-9 ½"		
CRE5	#5E	2	526	3'-5 ½"		0'-4"	1'-2"	1'-2"	0'-9 ½"		
CRE6	#5E	2	41	2'-6 ½"	0'-9½"	11 ½"	0'-9½"	0'-8"	0'-8"		
CRE7	#5E	2	42	2'-5"	0'-9 ½"	0'- 10"	0'-9½"	0'-7"	0'-3 ½"	0'-7 ½"	
CRE8	#5E	2	28	6'-1 ½"	1'-3 ½"	4'-10"	1'-5"	0'-6 ½"			
CRE9	#5E	2	28	6'-1"	1'-0"	5'-1"	1'-1"	0'-5"			

NOTE: Include cost of reinforcing steel not embedded in the beam in the unit price bid for 42 Inch Open Rail-BR-CSC.

SHEET NO.
B16

BRIDGE RAIL TYPE OPEN RAIL 42 INCH - SHEET 3

SCALE: AS NOTED

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

AT STATION
20+00.55

FEDERAL AID PROJECT
STPB 27+2(26)36

COUNTY
FALLON

REVISED	REVISED	REVISED	REVISED	CHECKED	DRAWN	DESIGNED
			S.E.W.	T.J.B		
			12-04-24	08-29-23		

9682000BRSTD001.dwg | SBR-ORA2-3

MONTANA Department of Transportation
BRIDGE BUREAU

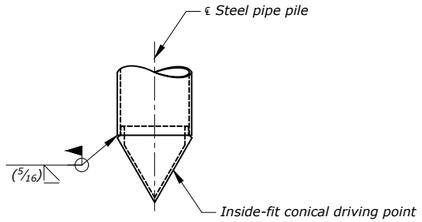
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UPN NUMBER
9682000

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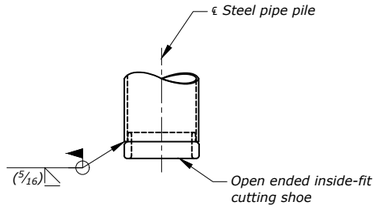
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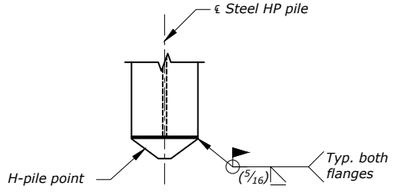
CONICAL DRIVING POINT WELD DETAIL

Slip driving point inside pipe



CUTTING SHOE WELD DETAIL

Slip driving point inside pipe



H-PILE POINT WELD DETAIL

Do not weld web or inside of flanges

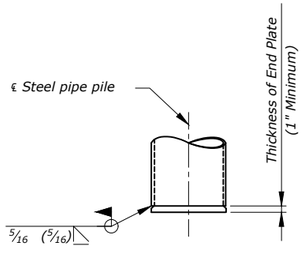
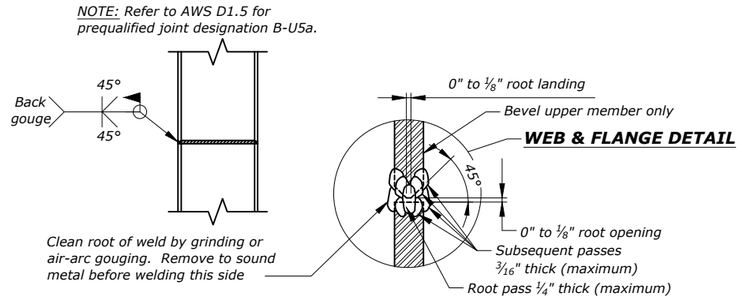


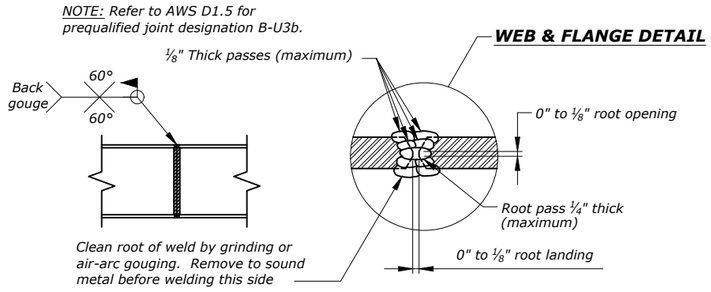
PLATE END WELD DETAIL

Align plate with outside of pipe



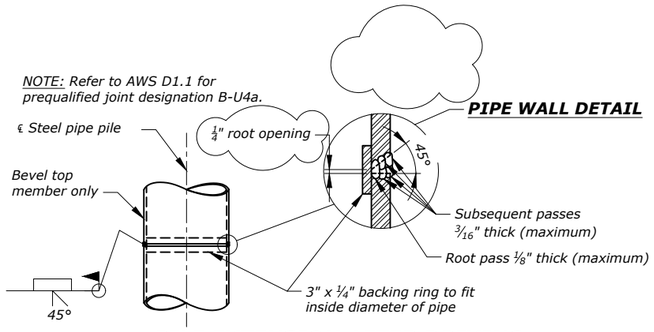
PILE EXTENSION AFTER DRIVING

(Pile Vertical)



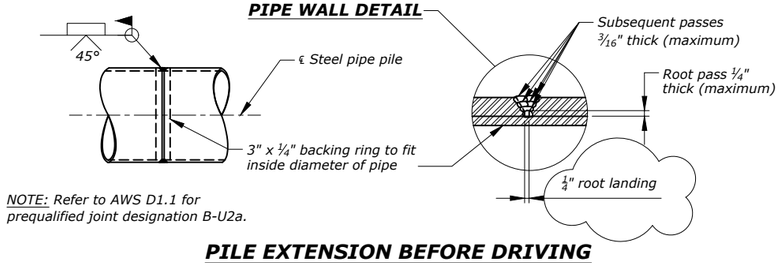
PILE EXTENSION BEFORE DRIVING

WELDED SPLICES FOR STEEL HP PILES



PILE EXTENSION AFTER DRIVING

(Pile Vertical)



PILE EXTENSION BEFORE DRIVING

WELDED SPLICES FOR STEEL PIPE PILES

NOTES:

PILE SPLICES: Use only E7018 series electrodes. Prepare the weld surfaces to a smooth, uniform finish. Remove all fins, tears, loose scale, slab, rust, grease, moisture and other material that would prevent proper welding.

PILE TIPS: Use only 7018 series electrodes to attach pile tips.

PILE TYPE: See Footing Plan sheets for correct pile type, pile tim and pile tip elevations.

PIPE PILE WEIGHTS

PIPE PILE DIAMETER	WALL THICKNESS	WEIGHT (LBS / FT)
12"	½"	62
16"	½"	83
20"	½"	104
24"	½"	126
24"	¾"	186
30"	¾"	235

UPDATED 10-29-24 S.E.W.

SHEET NO. B17

PILE SPLICE DETAILS AND PILE TIPS

SCALE: NO SCALE

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER

AT STATION 20+00.55

FEDERAL AID PROJECT STPB 27+2(26)36

COUNTY FALLON

	REVISED	REVISED	REVISED	REVISED	CHECKED	DRAWN	DESIGNED
					1-30-15	1-30-15	1-23-15
					D.F.J.	D.F.J.	T.J.B.

9682000BRSTD002.dwg \ PSD

MONTANA Department of Transportation

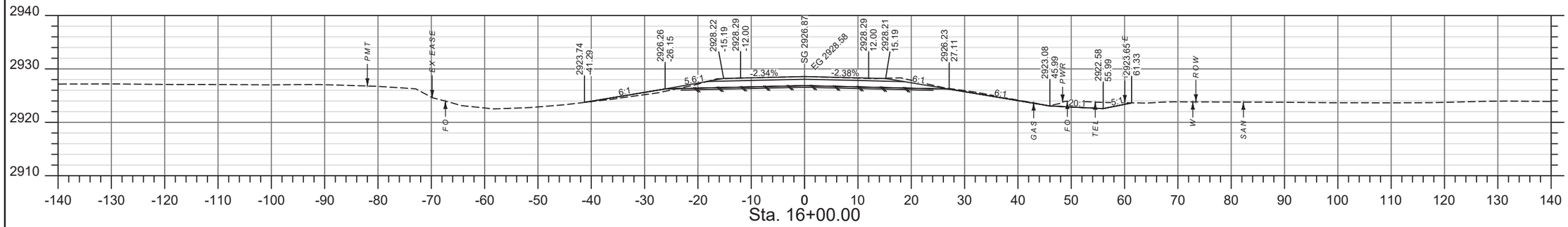
BRIDGE BUREAU

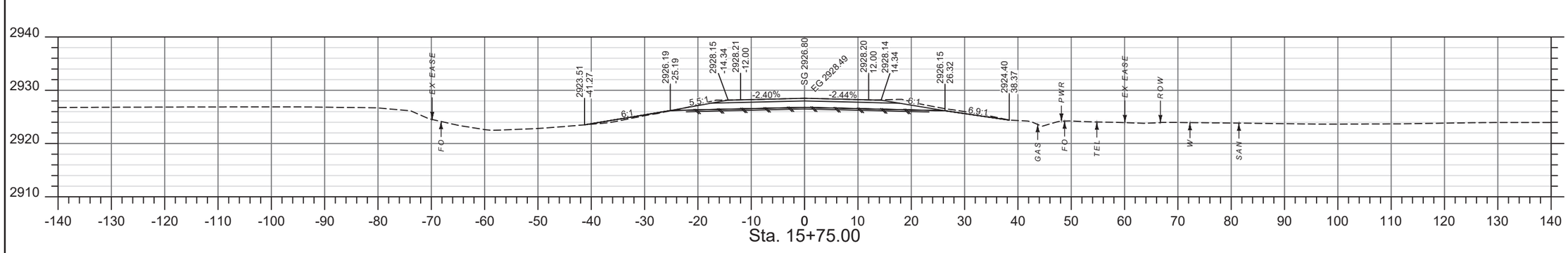
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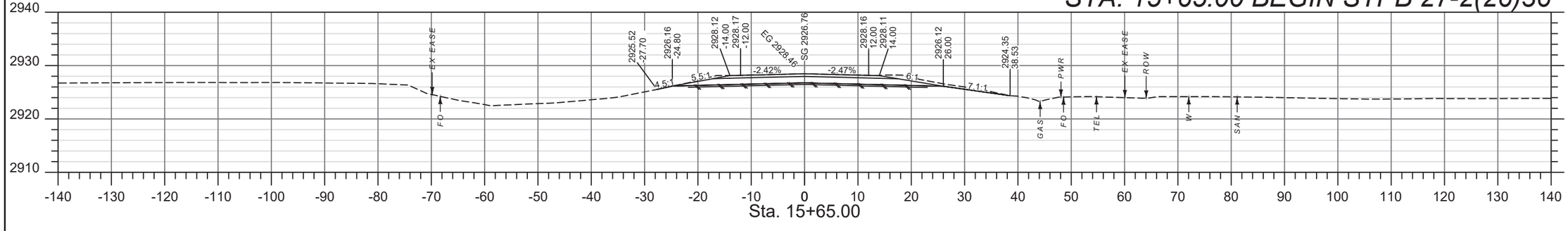
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STA. 15+65.00 BEGIN STPB 27-2(26)36



SHEET NO.
01

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY	02/23/23
C. PERIMAN	
REVIEWED BY	
CHECKED BY	

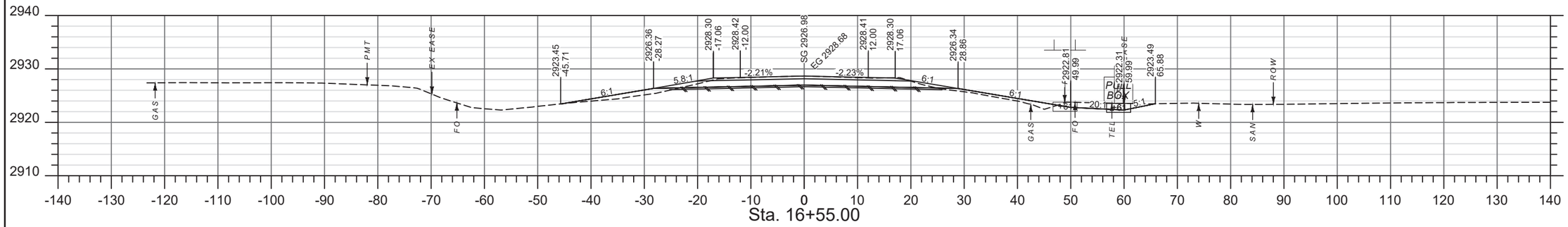
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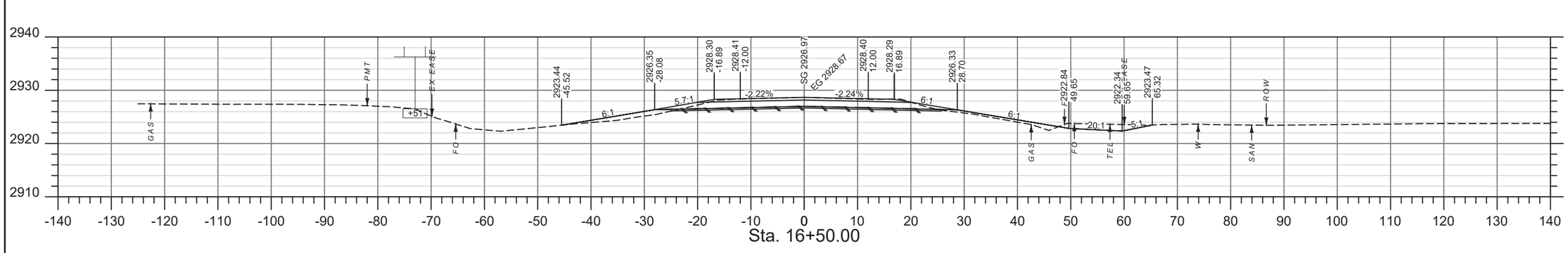
MONTANA Department of Transportation

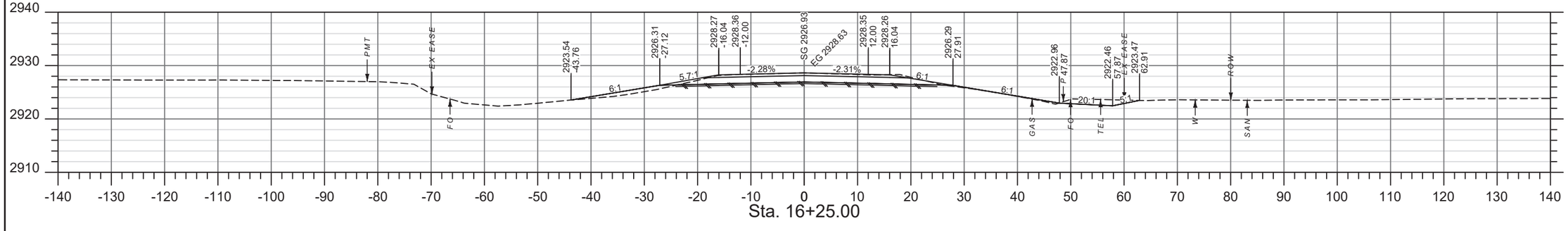
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SHEET NO.
02

CROSS SECTIONS
MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY		02/23/23
C. PERIMAN	REVIEWED BY	
	CHECKED BY	

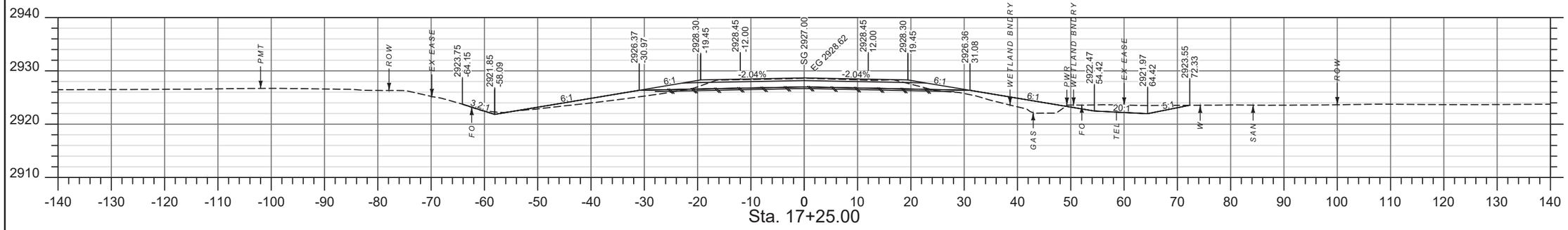
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MONTANA
Department of Transportation

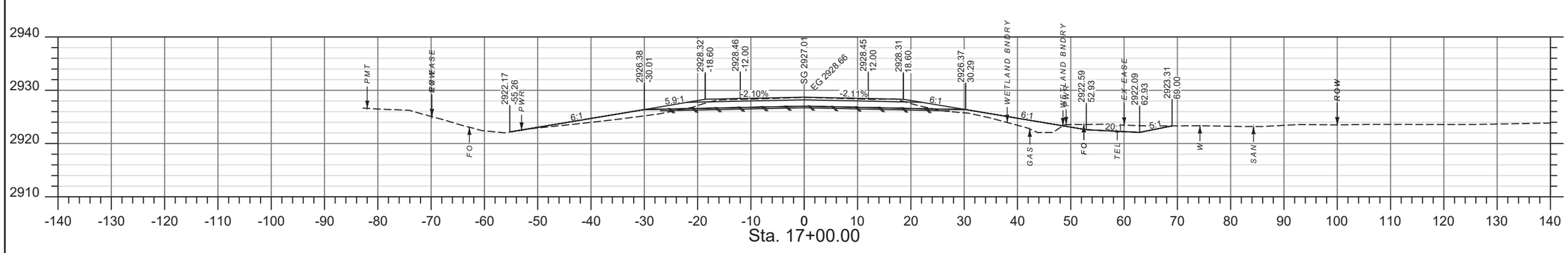
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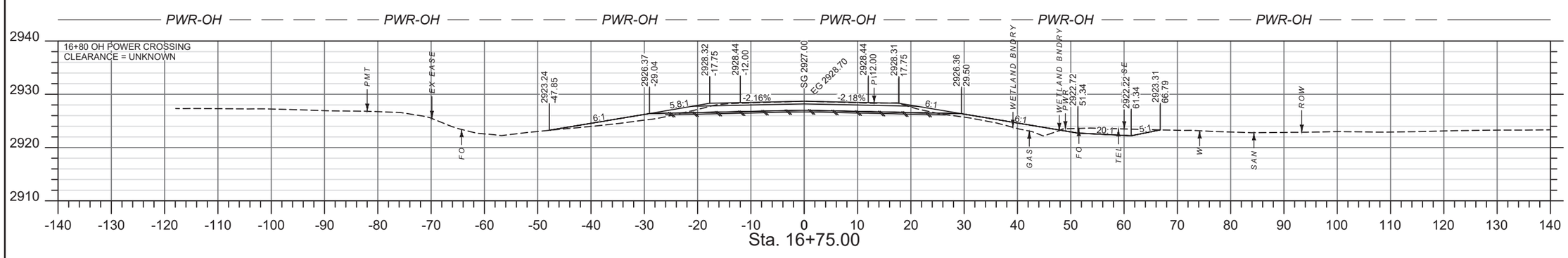
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Sta. 17+25.00



Sta. 17+00.00



Sta. 16+75.00

SHEET NO. 03

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

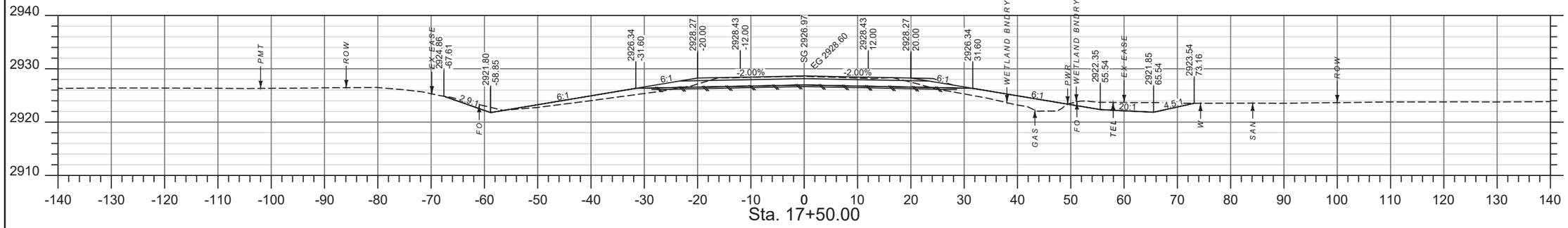
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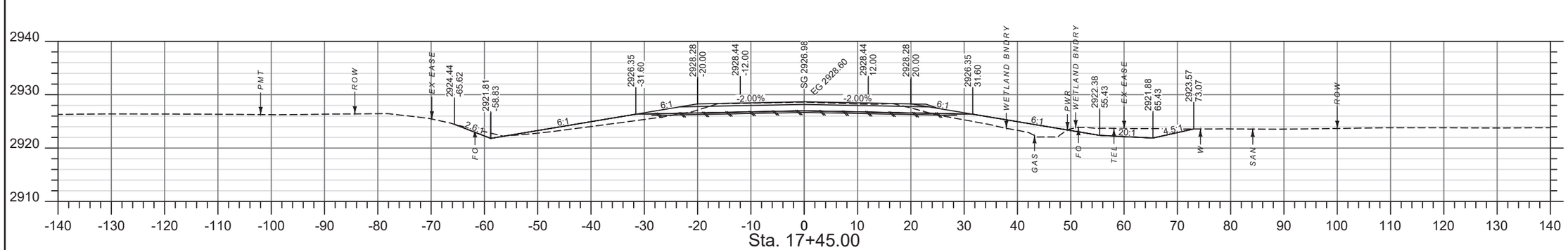
MONTANA Department of Transportation

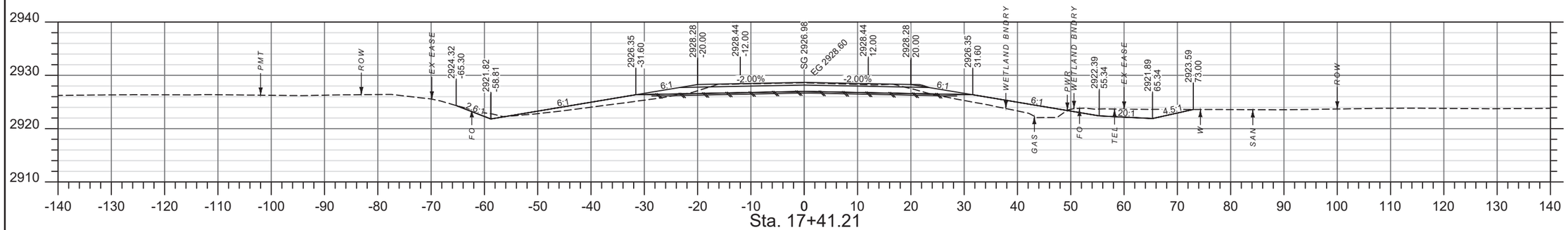
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SHEET NO. 04

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER

COUNTY: FALLON COUNTY

PROJECT ID: STPB 27-2(26)36

UPN: 9682000

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

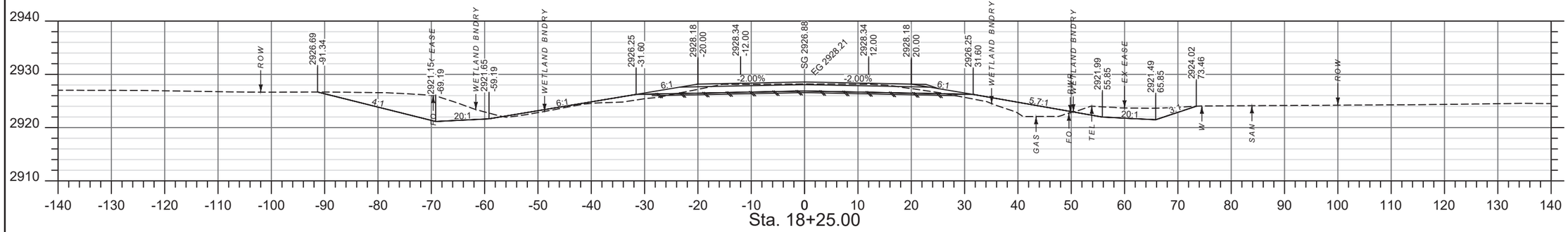
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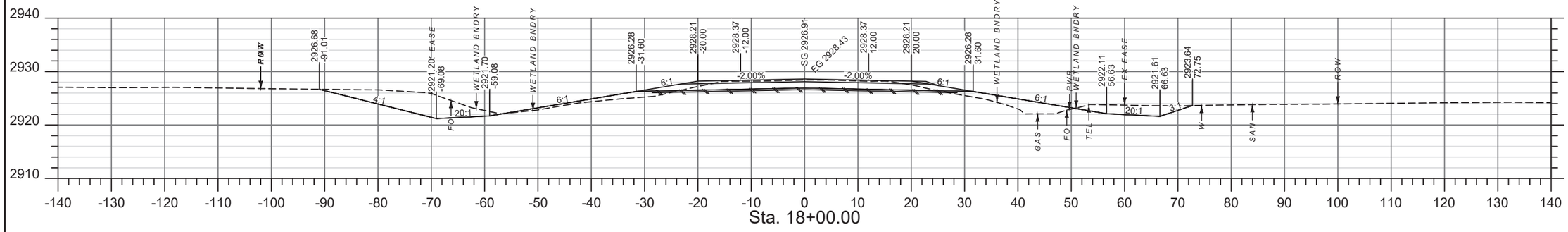
MONTANA Department of Transportation

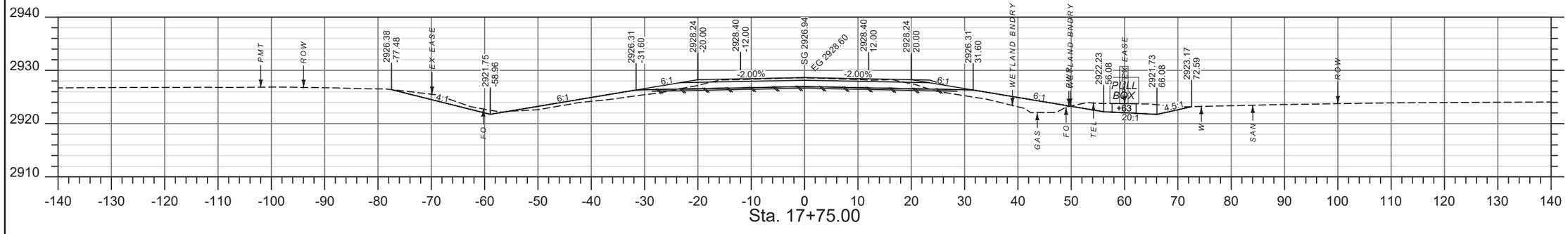
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SHEET NO.
05

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

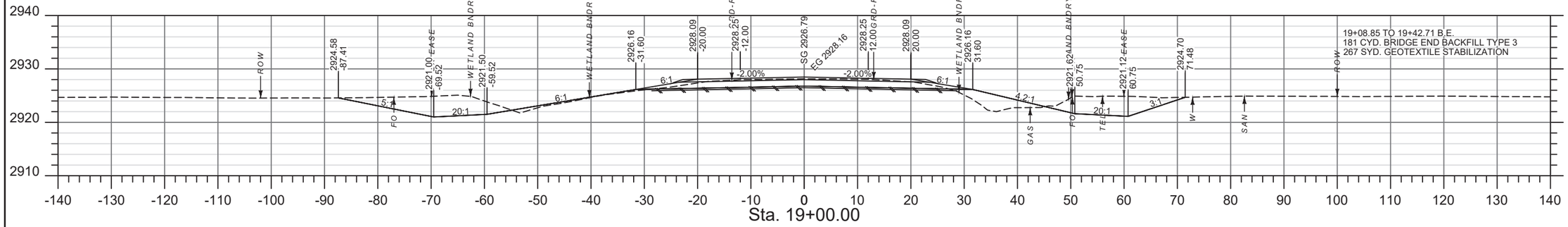
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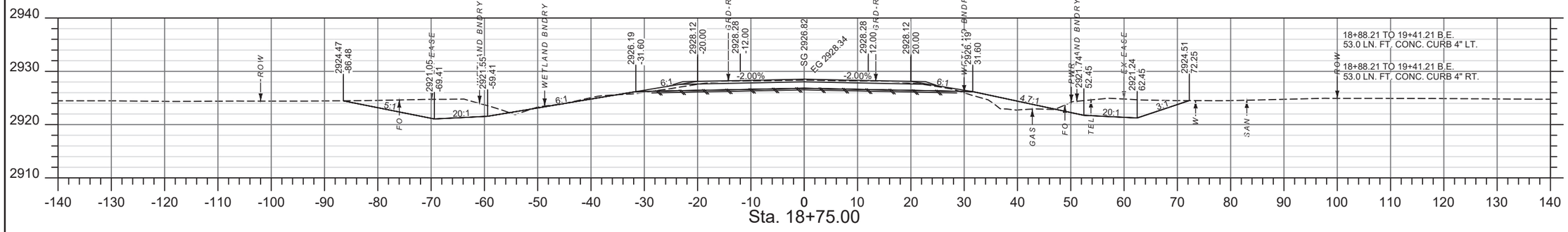
MONTANA Department of Transportation

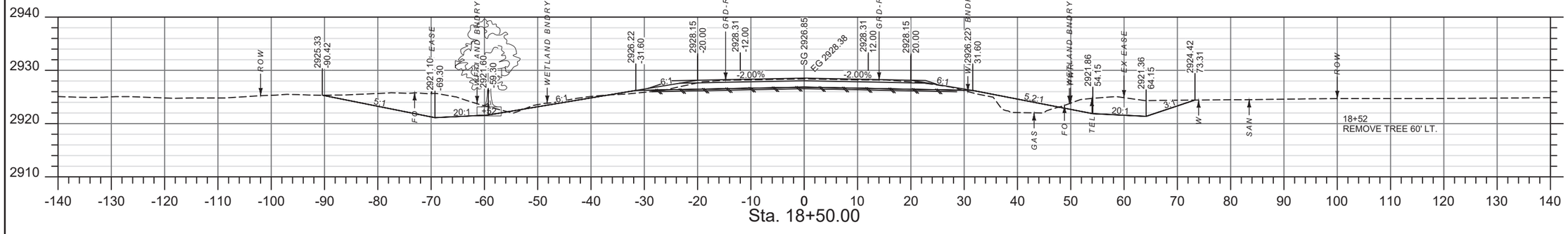
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SHEET NO. 06

CROSS SECTIONS MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY: **FALLON COUNTY**

PROJECT ID: **STPB 27-2(26)36**

UPN: **9682000**

DESIGNED BY	02/23/23
C. PERIMAN	
REVIEWED BY	
CHECKED BY	

9682000RDLAY001.DWG

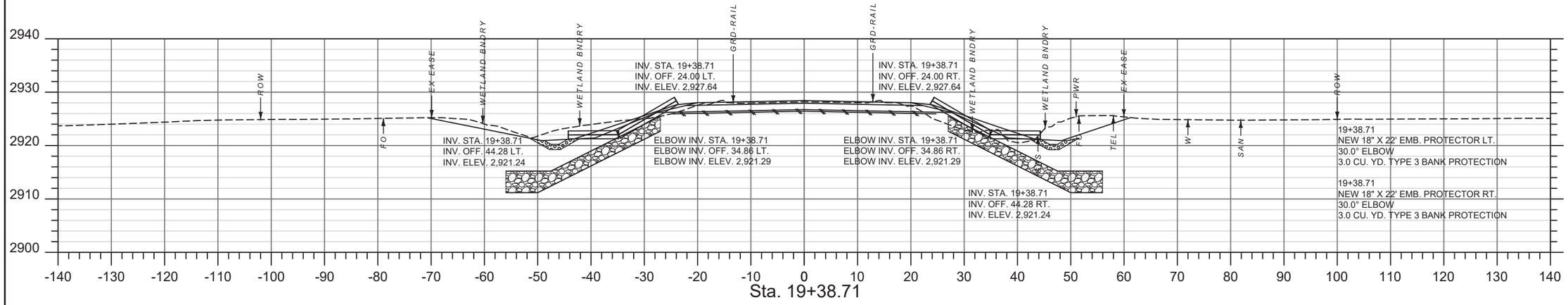
MONTANA Department of Transportation

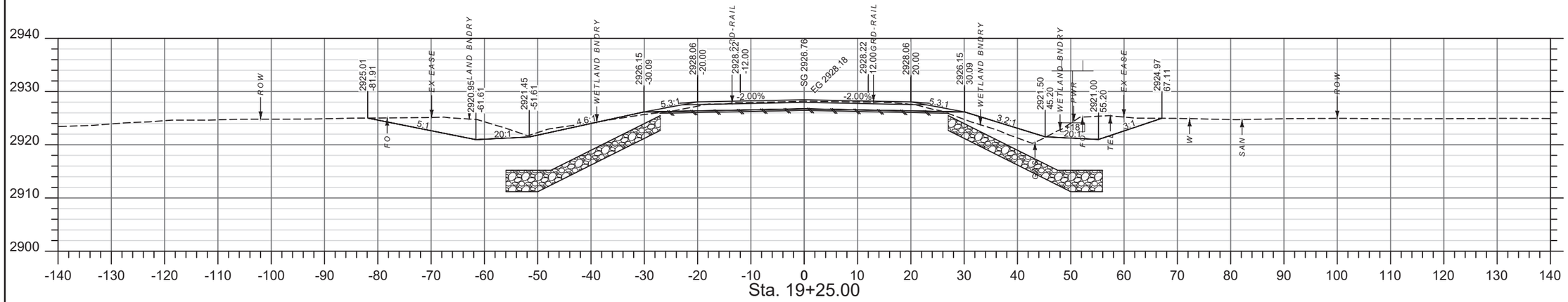
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AWARD COPY





SHEET NO. 07

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

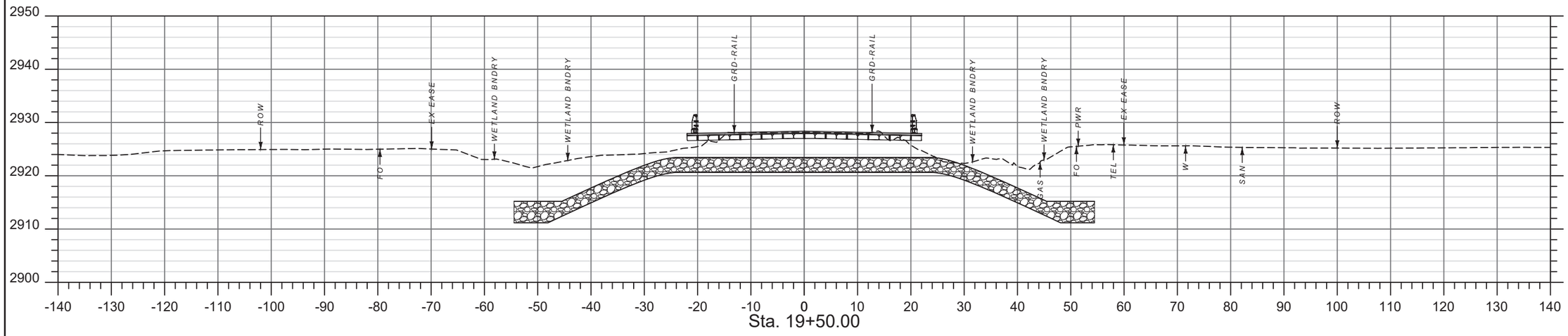
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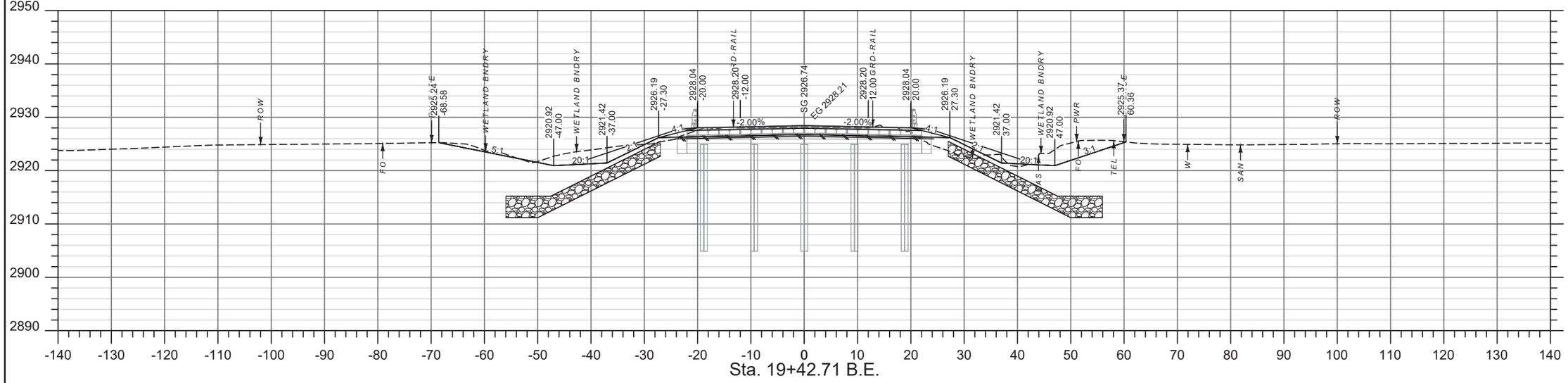
MONTANA Department of Transportation

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SHEET NO. 08

CROSS SECTIONS MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY: **FALLON COUNTY**

PROJECT ID: **STPB 27-2(26)36**

UPN: **9682000**

DESIGNED BY: C. PERIMAN 02/23/23

REVIEWED BY:

CHECKED BY:

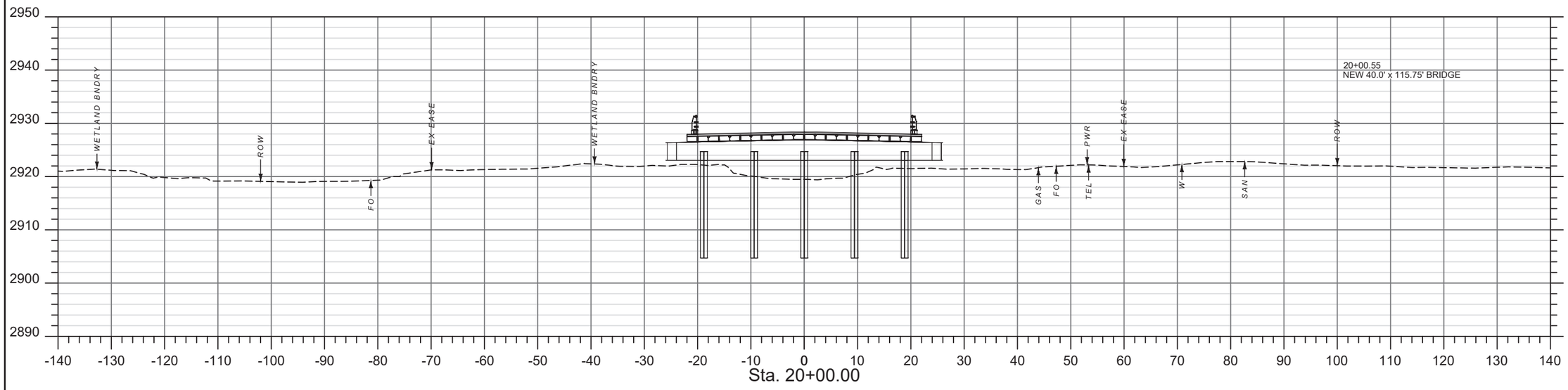
MONTANA Department of Transportation

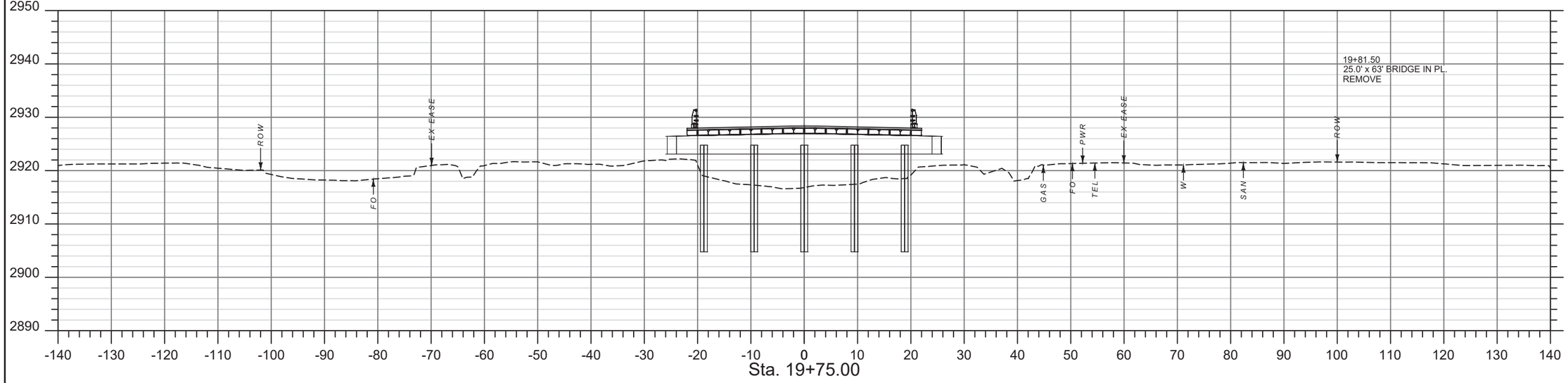
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SHEET NO. 09

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

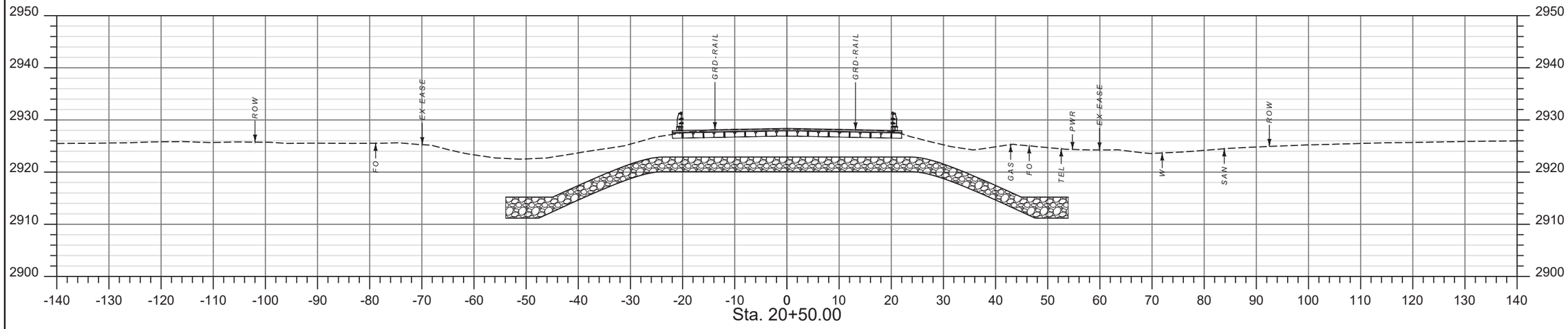
MONTANA Department of Transportation

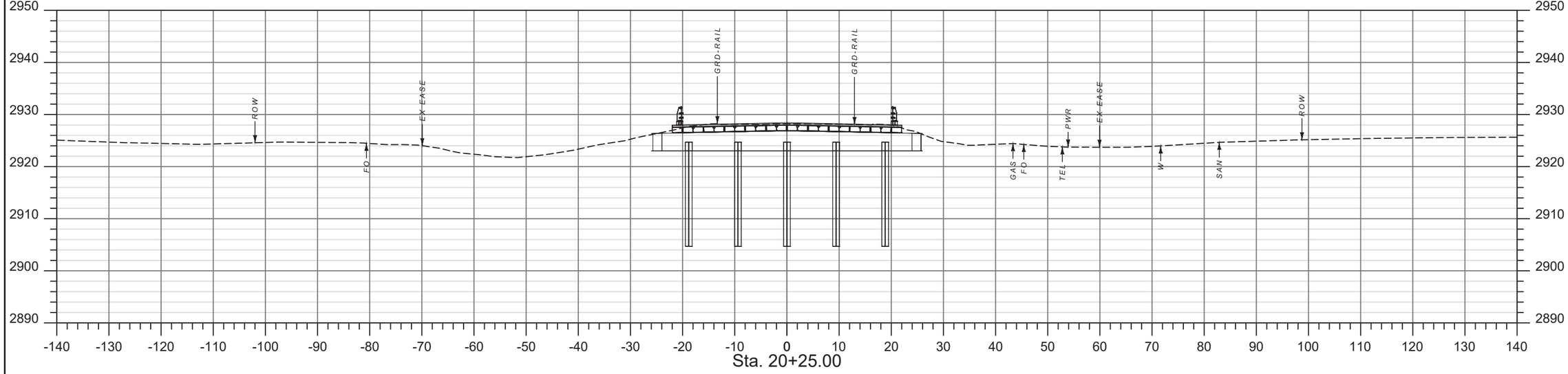
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9682000RDLAY001.DWG

Docusign Envelope ID: FCD789DB-ACE9-4DFD-8CDD-291F5D532B30





SHEET NO. 10

CROSS SECTIONS MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY: **FALLON COUNTY**

PROJECT ID: **STPB 27-2(26)36**

UPN: **9682000**

DESIGNED BY: C. PERIMAN 02/23/23

REVIEWED BY:

CHECKED BY:

MONTANA Department of Transportation

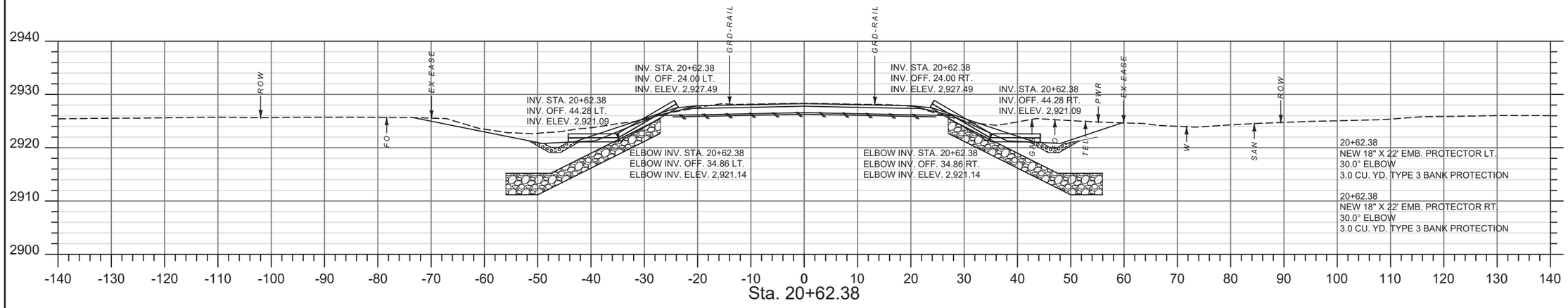
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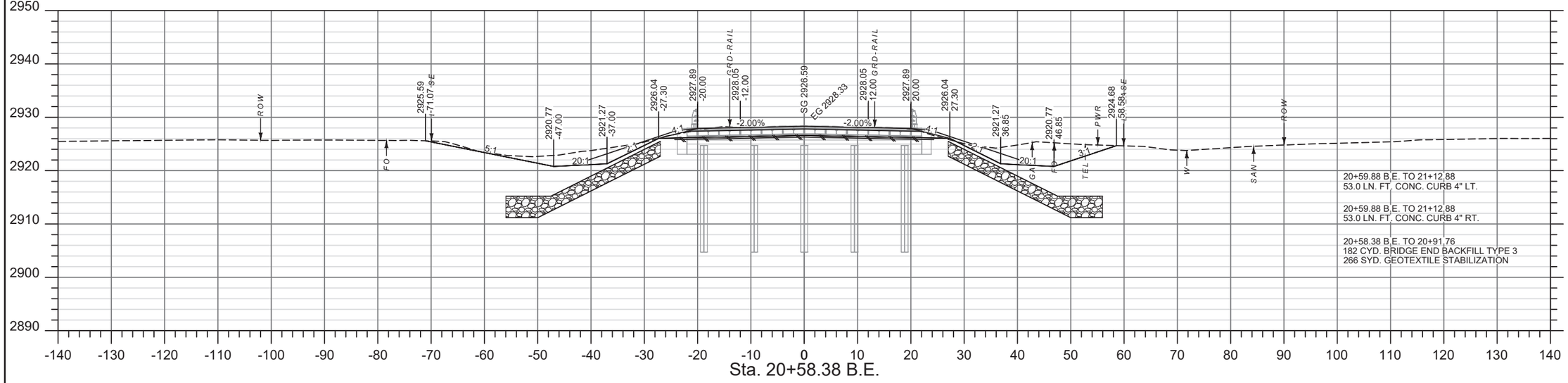
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SHEET NO. 11

CROSS SECTIONS MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY: **FALLON COUNTY**

PROJECT ID: **STPB 27-2(26)36**

UPN: **9682000**

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

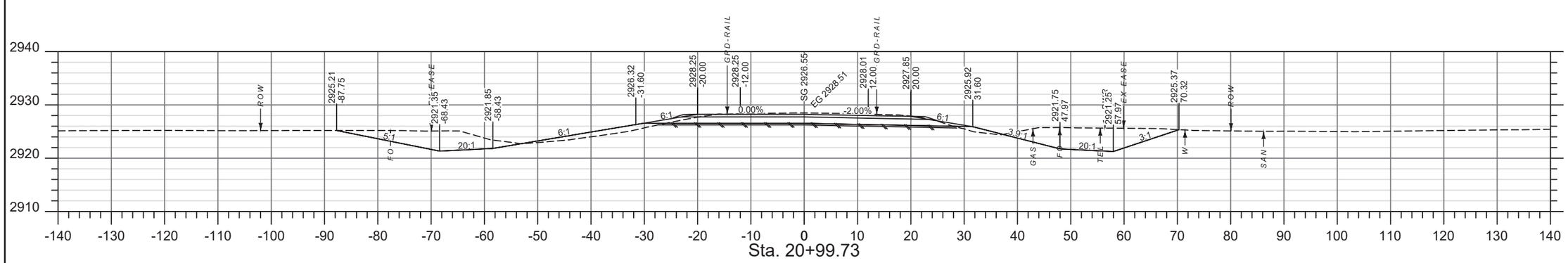
9682000RDLAY001.DWG

MONTANA Department of Transportation

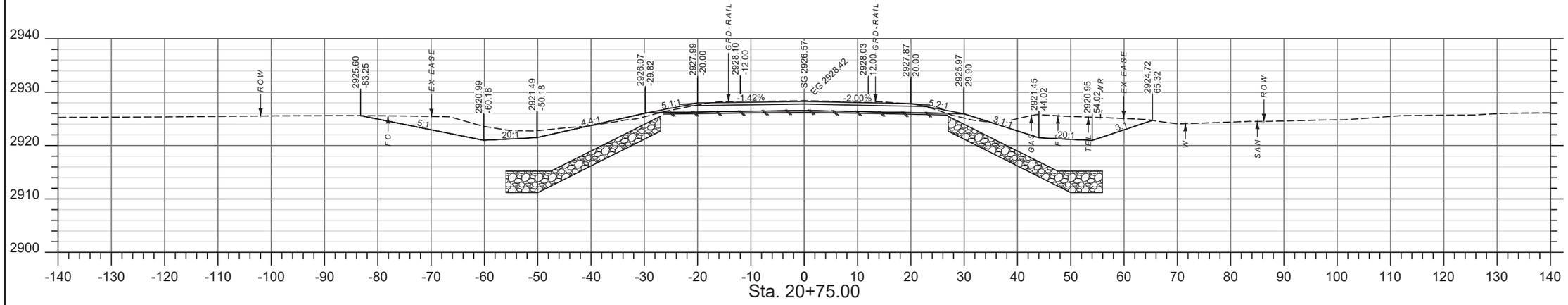
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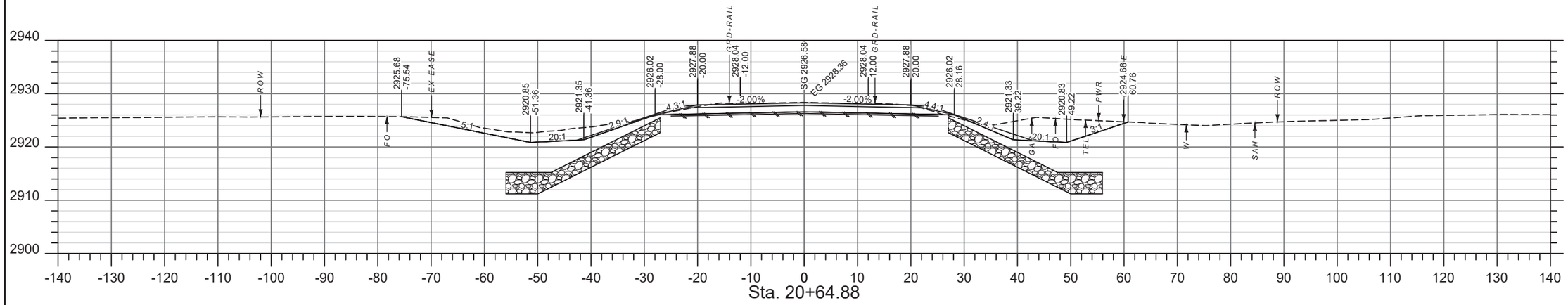
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Sta. 20+99.73



Sta. 20+75.00



Sta. 20+64.88

SHEET NO. 12

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

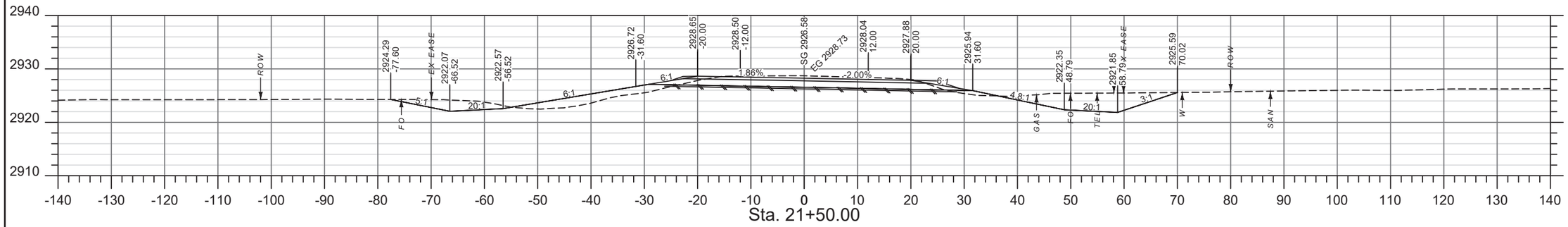
9682000RDLAY001.DWG

MONTANA Department of Transportation

ROAD DESIGN

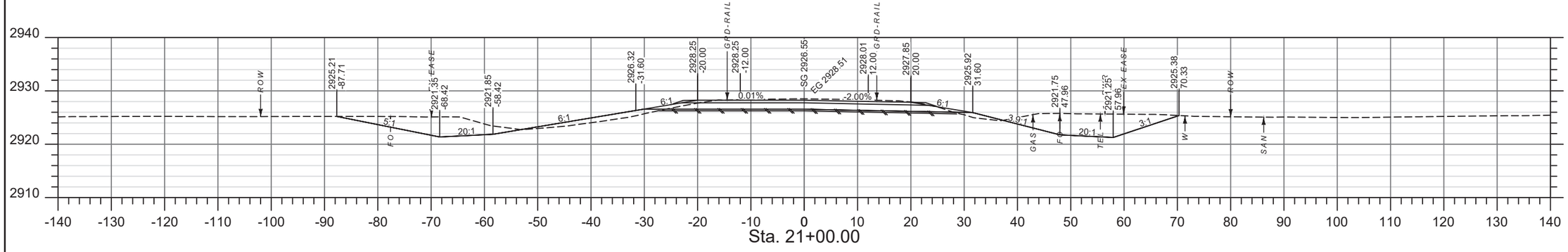
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Sta. 21+50.00

Sta. 21+25.00



Sta. 21+00.00

SHEET NO.
13

CROSS SECTIONS
MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

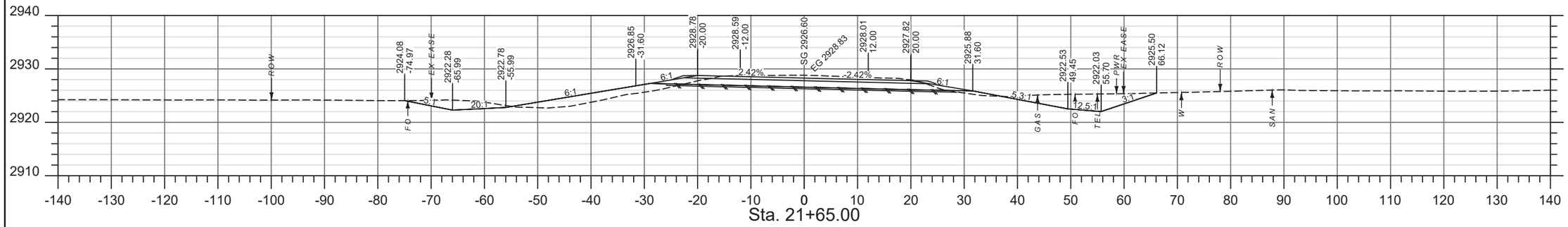
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MONTANA
Department of Transportation

ROAD DESIGN

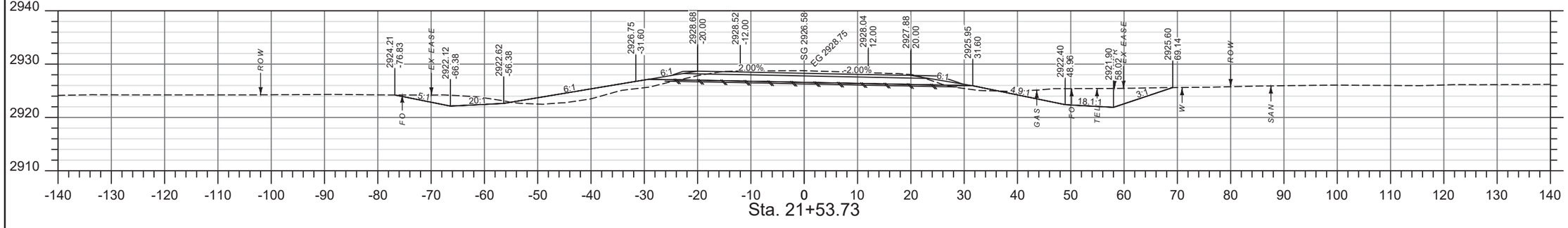
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Sta. 21+65.00

Sta. 21+56.43



Sta. 21+53.73

SHEET NO.
14

CROSS SECTIONS
MAINLINE

PROJECT NAME
SANDSTONE CREEK BRIDGE - BAKER

COUNTY
FALLON COUNTY

PROJECT ID
STPB 27-2(26)36

UPN
9682000

DESIGNED BY
C. PERIMAN

02/23/23

REVIEWED BY

CHECKED BY

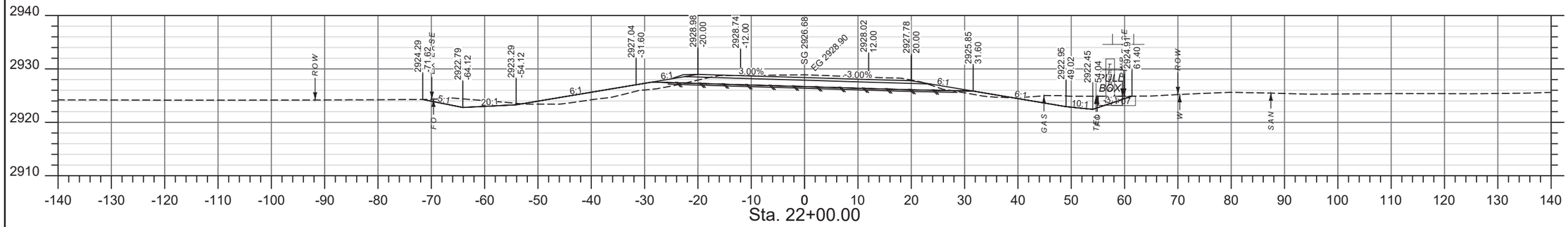
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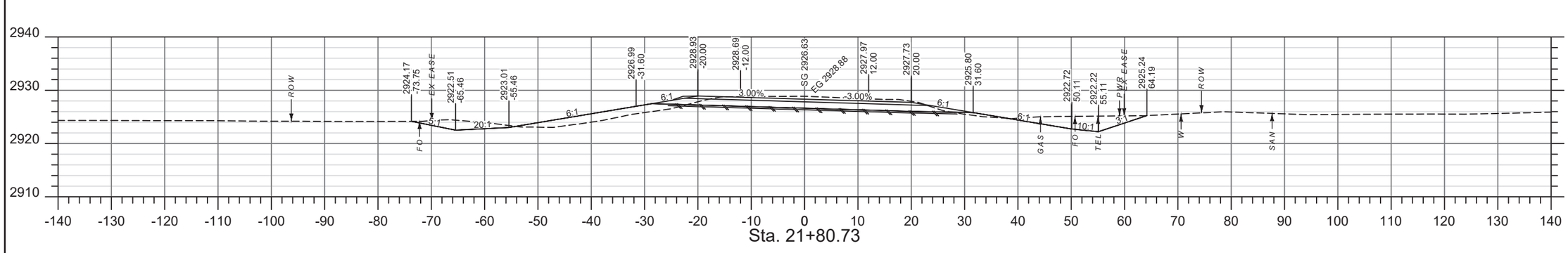
MONTANA
Department of Transportation

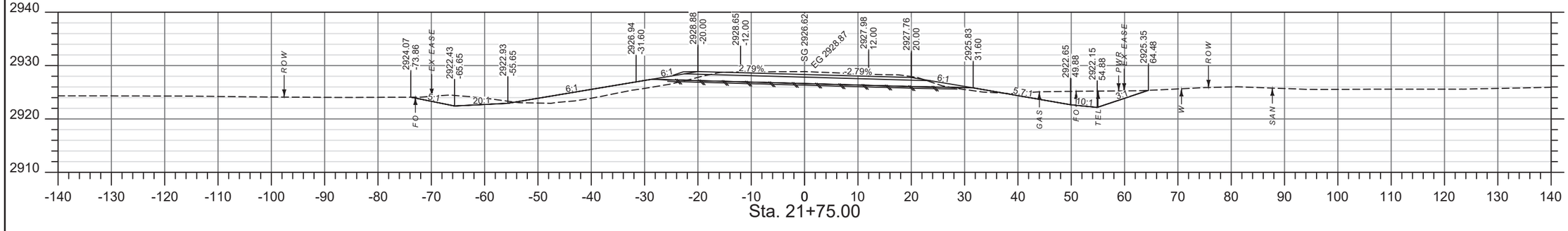
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SHEET NO.
15

CROSS SECTIONS
MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

9682000RDLAY001.DWG

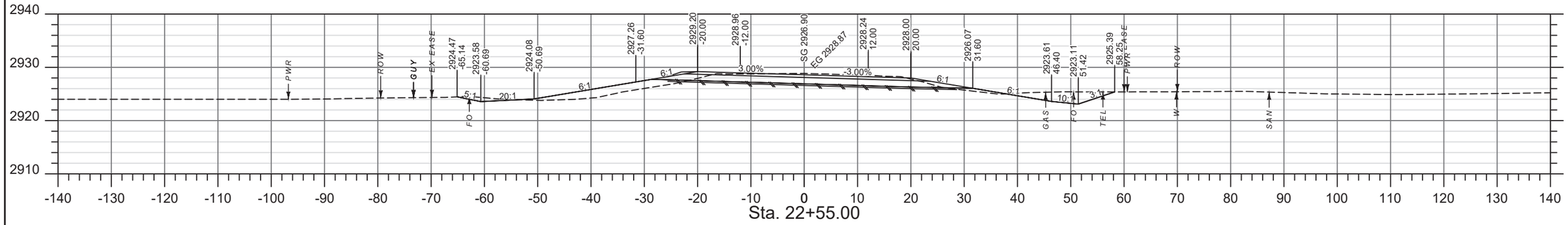
MONTANA
Department of Transportation

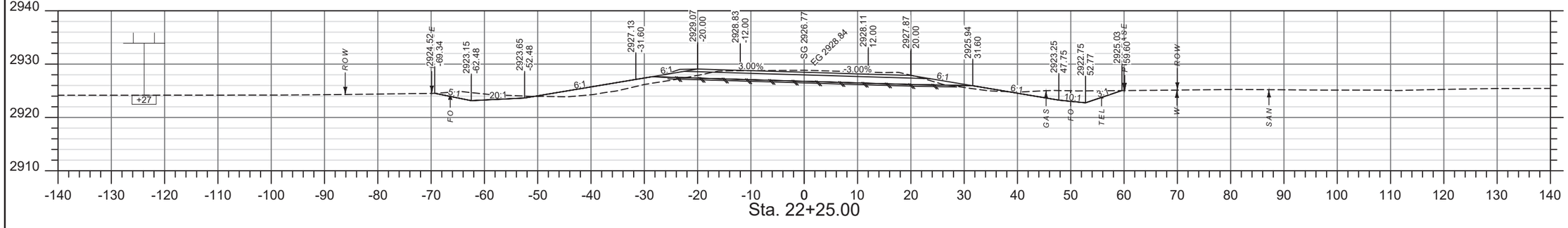
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AWARD COPY





SHEET NO.
16

CROSS SECTIONS
MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

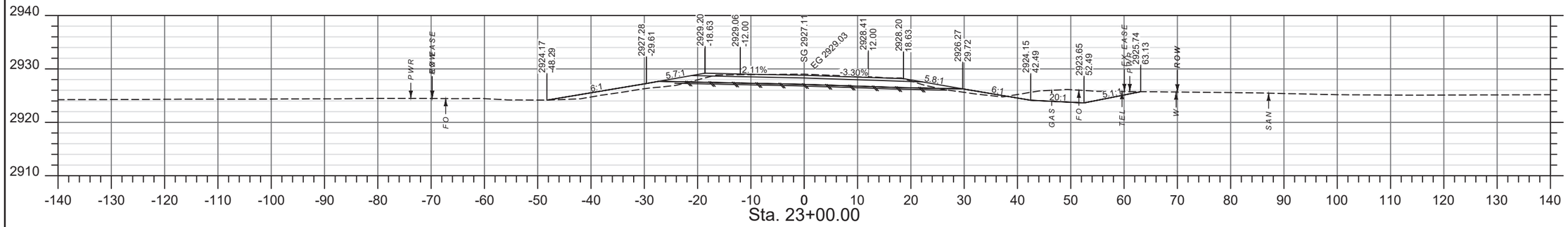
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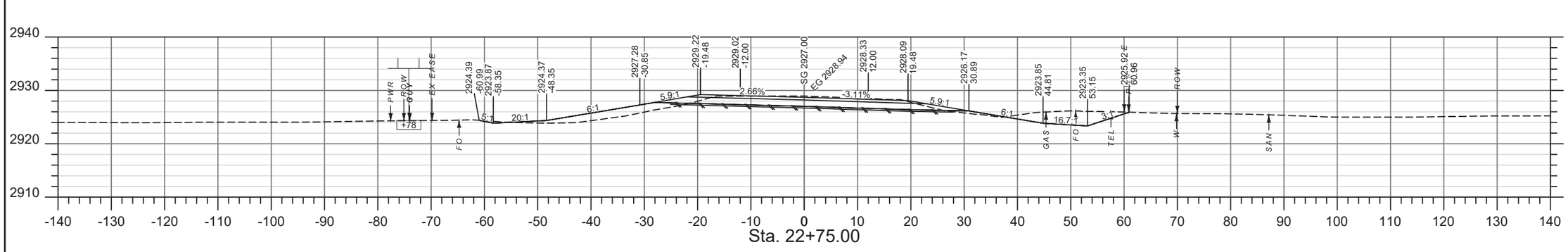
MONTANA
Department of Transportation

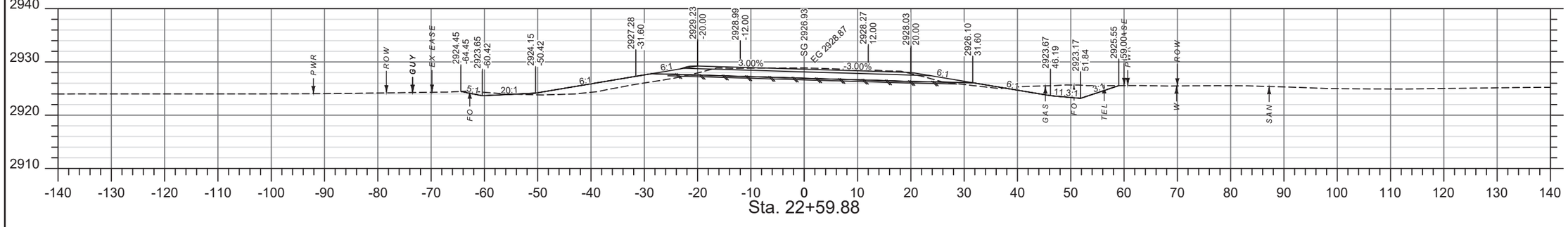
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SHEET NO.
17

CROSS SECTIONS
MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

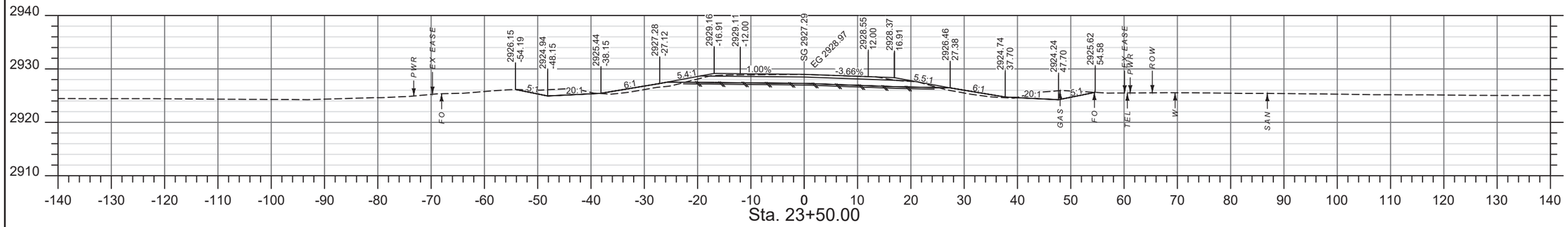
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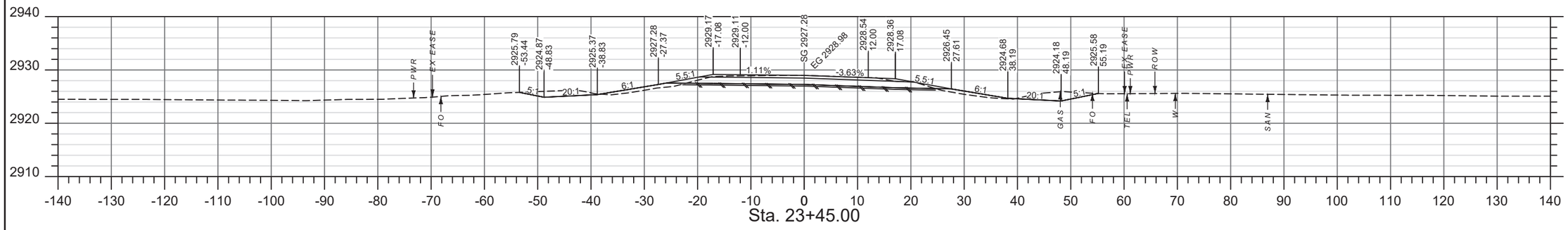
MONTANA
Department of Transportation

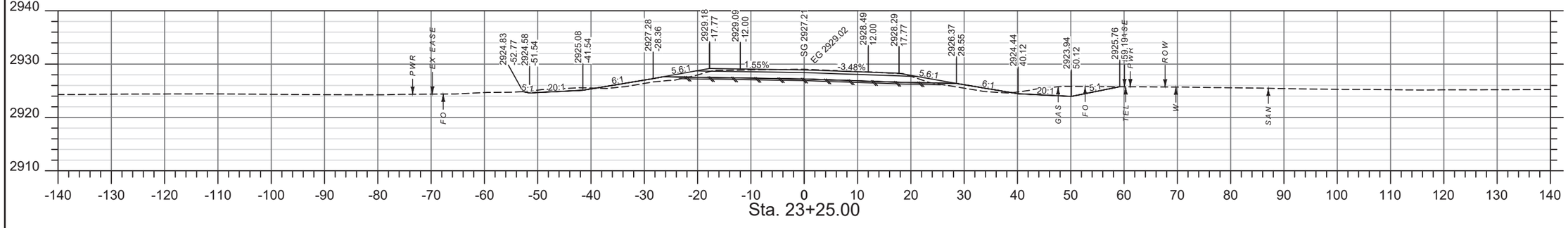
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SHEET NO.
18

CROSS SECTIONS
MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	02/23/23
C. PERIMAN	
REVIEWED BY	
CHECKED BY	

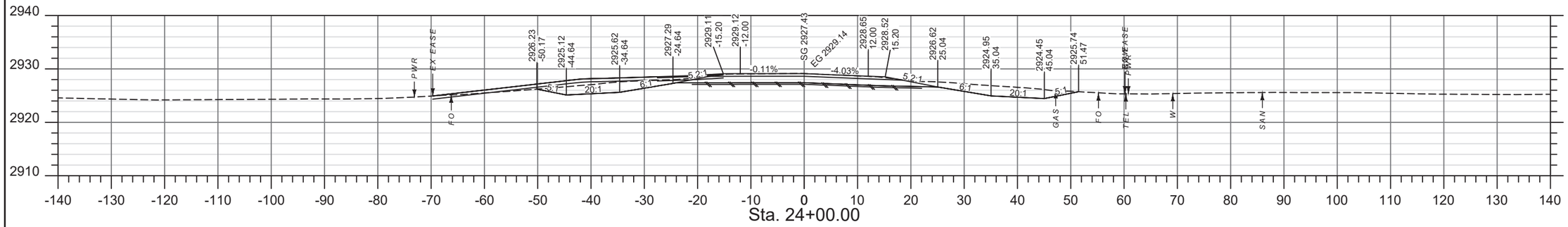
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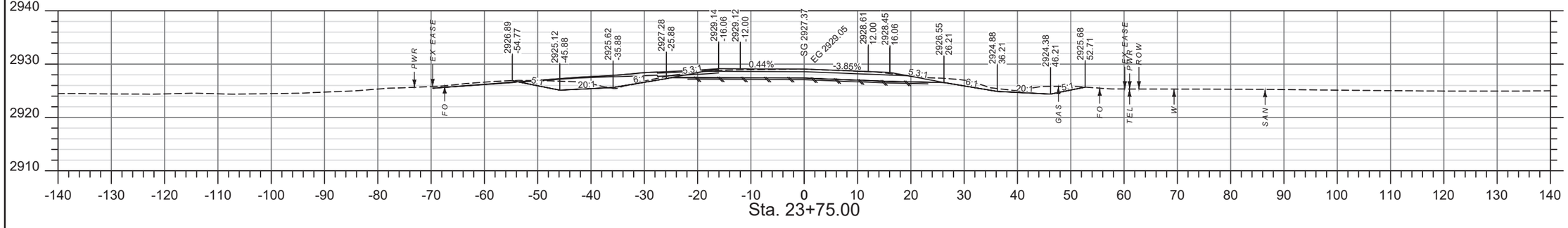
MONTANA
Department of Transportation

ROAD DESIGN

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SHEET NO.
19

CROSS SECTIONS
MAINLINE

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

9682000RDLAY001.DWG

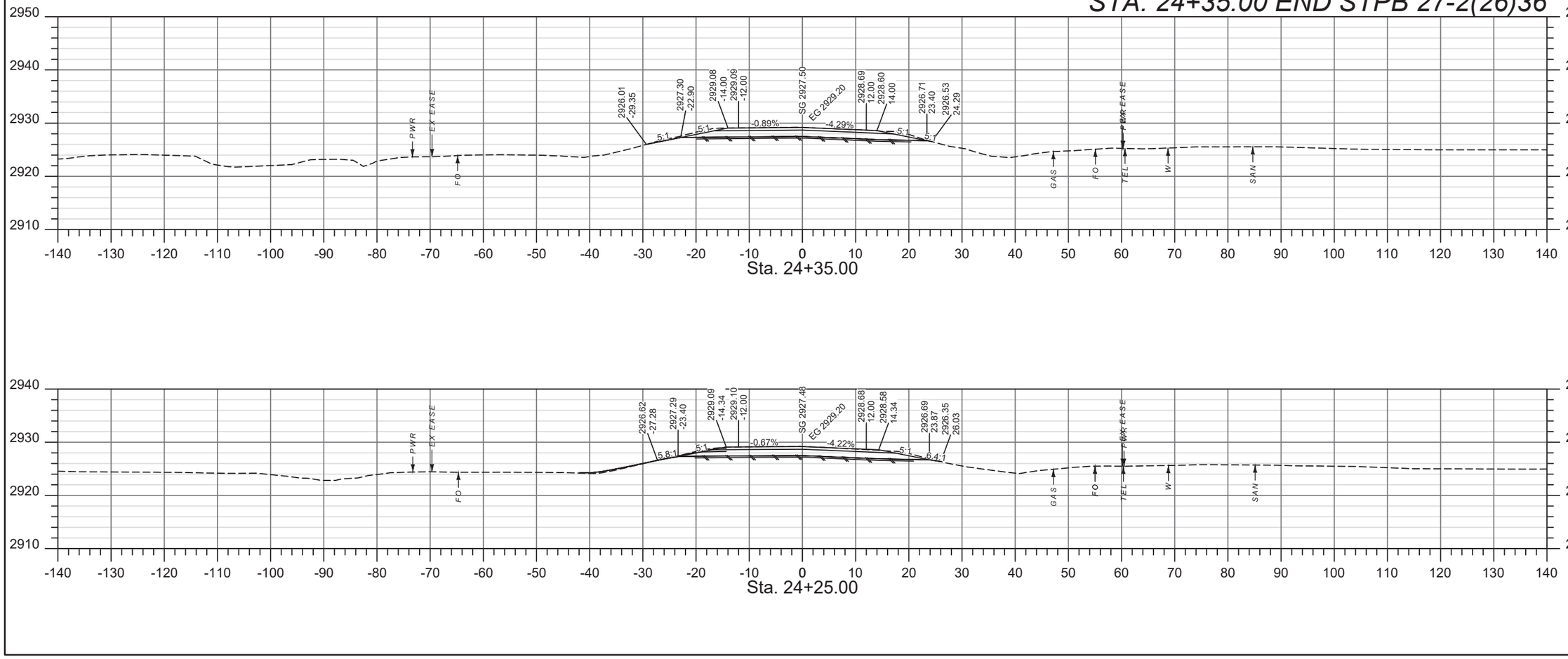
MONTANA
Department of Transportation

ROAD DESIGN

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SHEET NO. 20

CROSS SECTIONS MAINLINE

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

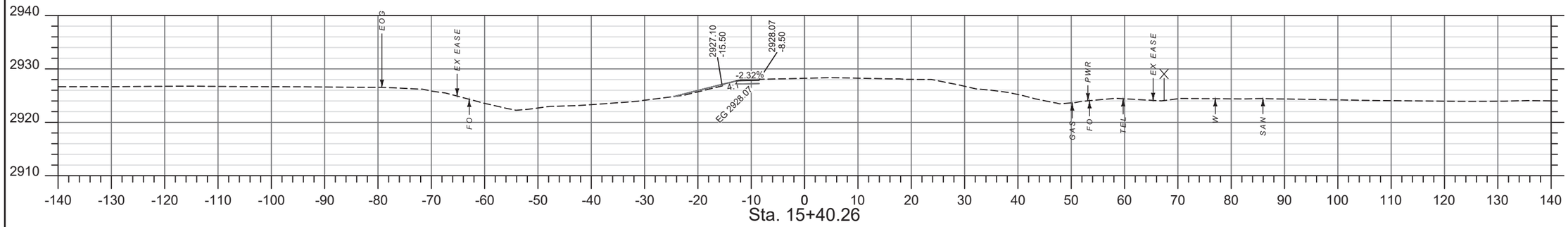
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MONTANA Department of Transportation

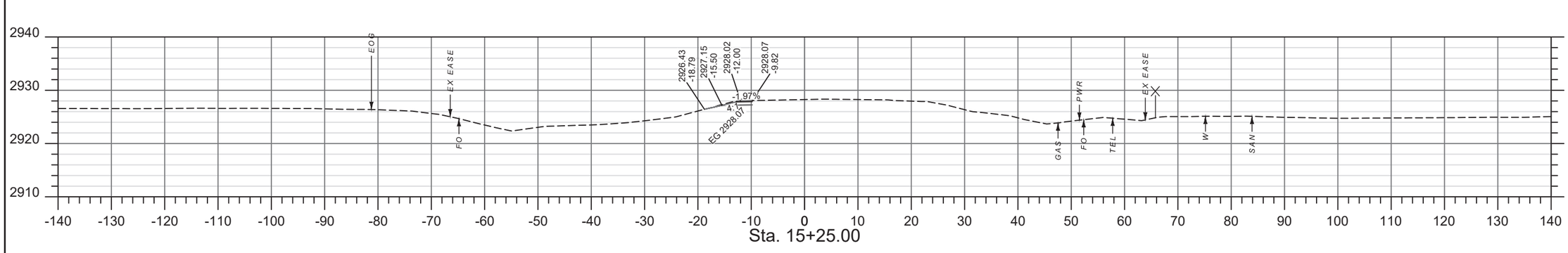
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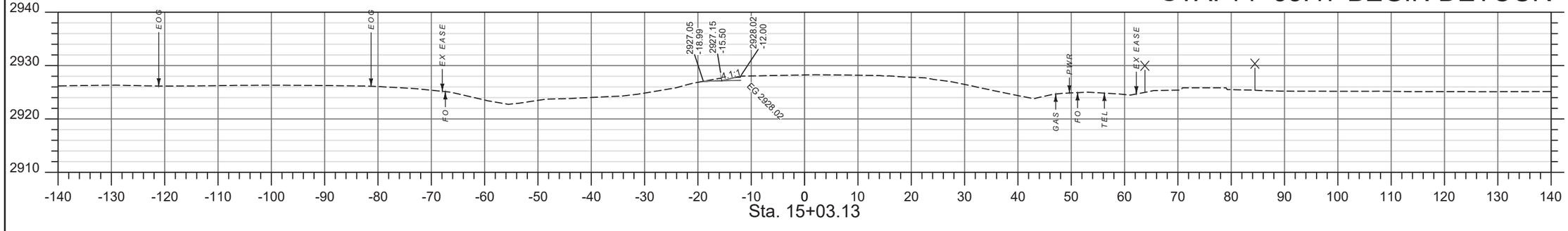


Sta. 15+40.26



Sta. 15+25.00

STA. 14+38.47 BEGIN DETOUR



Sta. 15+03.13

SHEET NO.
21

CROSS SECTIONS
DETOUR

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

DESIGNED BY C. PERIMAN 02/23/23
REVIEWED BY
CHECKED BY

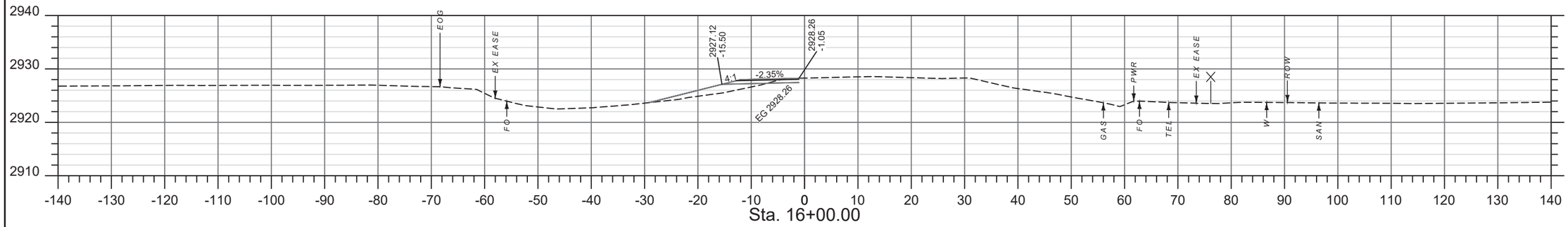
MONTANA
Department of Transportation

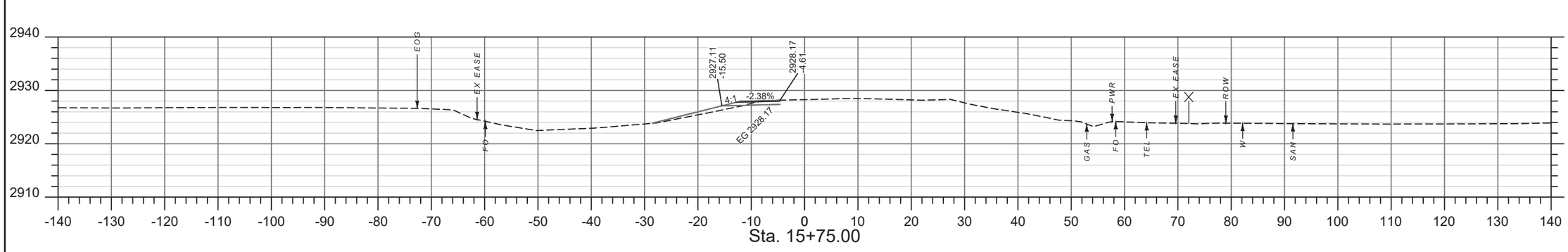
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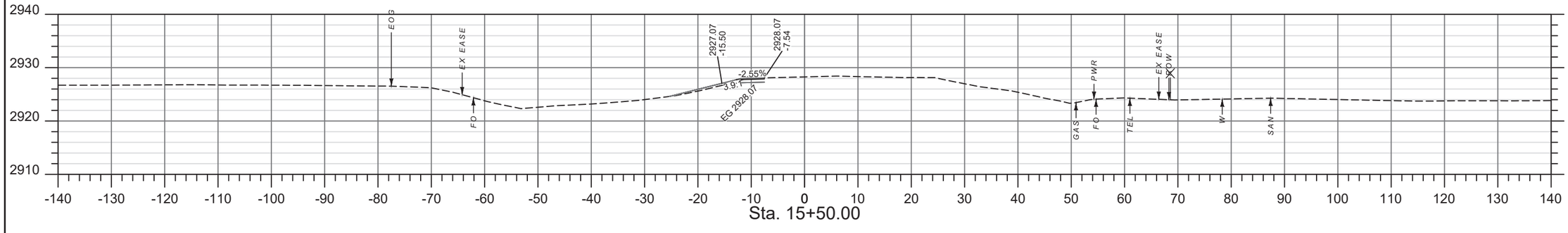
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AWARD COPY







SHEET NO.
22

CROSS SECTIONS
DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

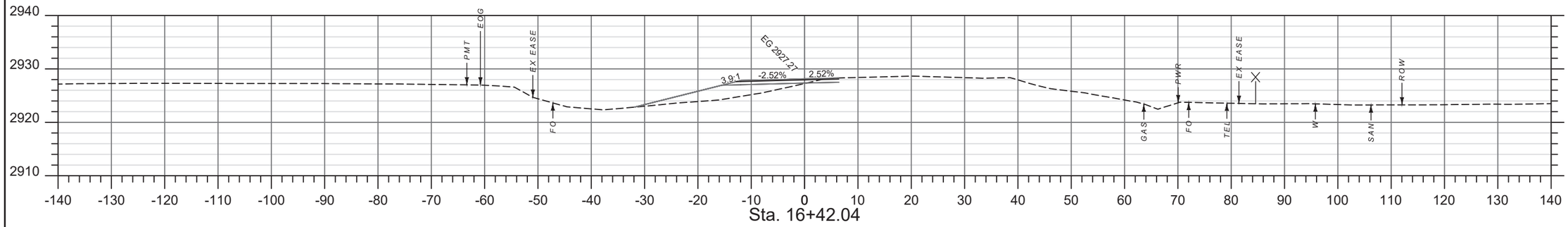
9682000RDLAY002.DWG

MONTANA
Department of Transportation

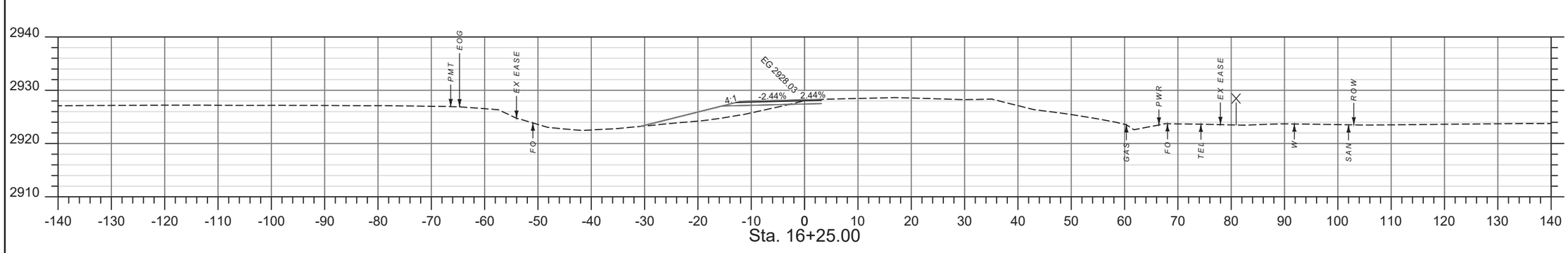
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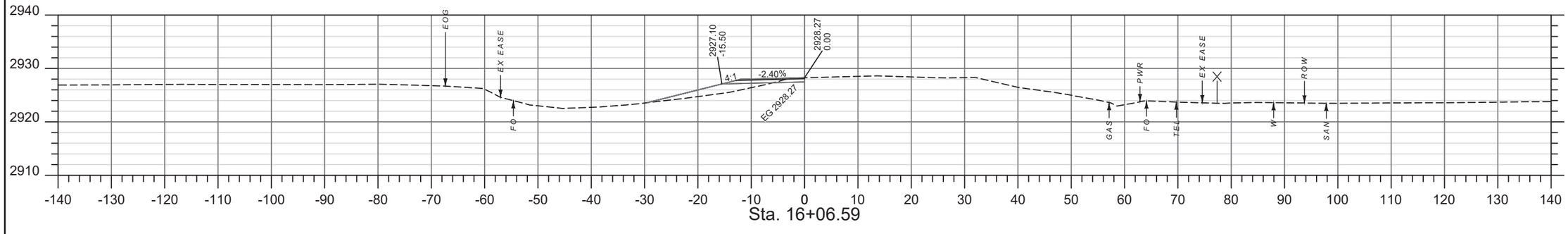
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Sta. 16+42.04



Sta. 16+25.00



Sta. 16+06.59

SHEET NO. 23

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY **FALLON COUNTY**

PROJECT ID **STPB 27-2(26)36**

UPN **9682000**

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

9682000RDLAY002.DWG

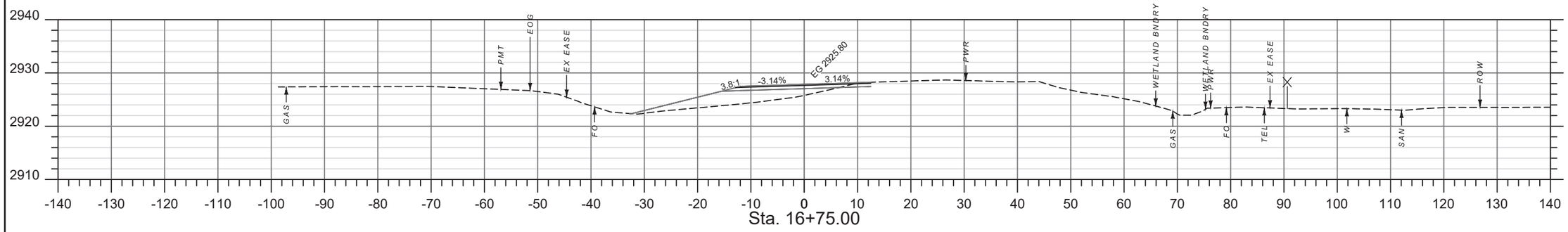
MONTANA Department of Transportation

ROAD DESIGN

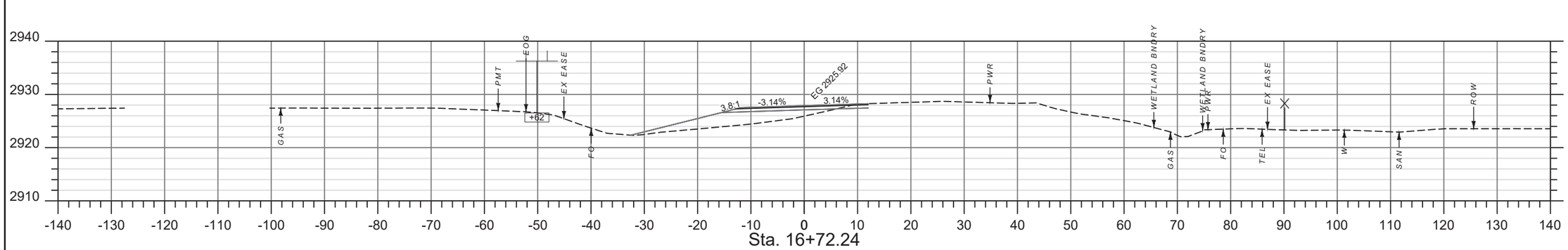
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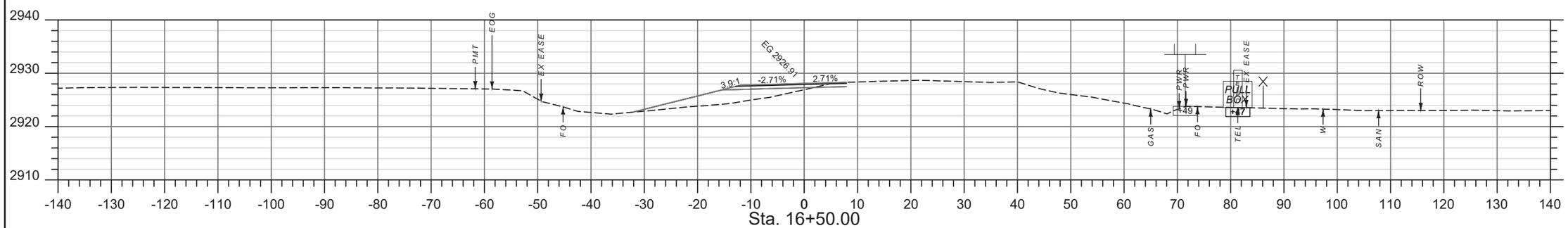
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Sta. 16+75.00



Sta. 16+72.24



Sta. 16+50.00

SHEET NO. 24

CROSS SECTIONS DETOUR

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER

COUNTY: FALLON COUNTY

PROJECT ID: STPB 27-2(26)36

UPN: 9682000

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

9682000RDLAY002.DWG

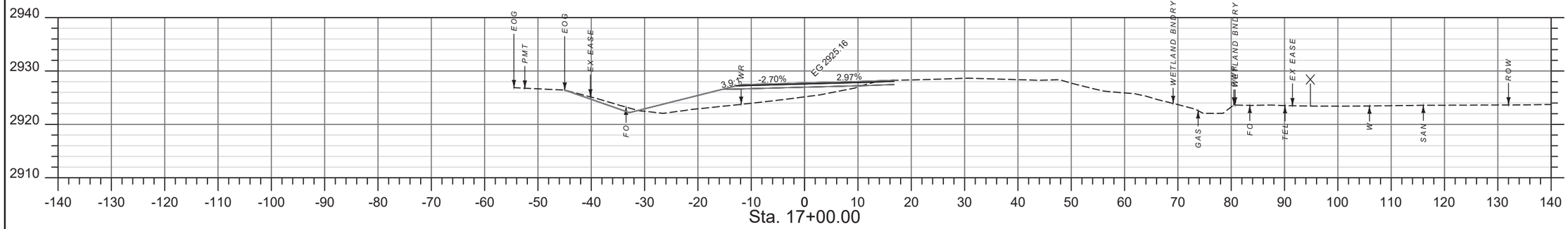
MONTANA Department of Transportation

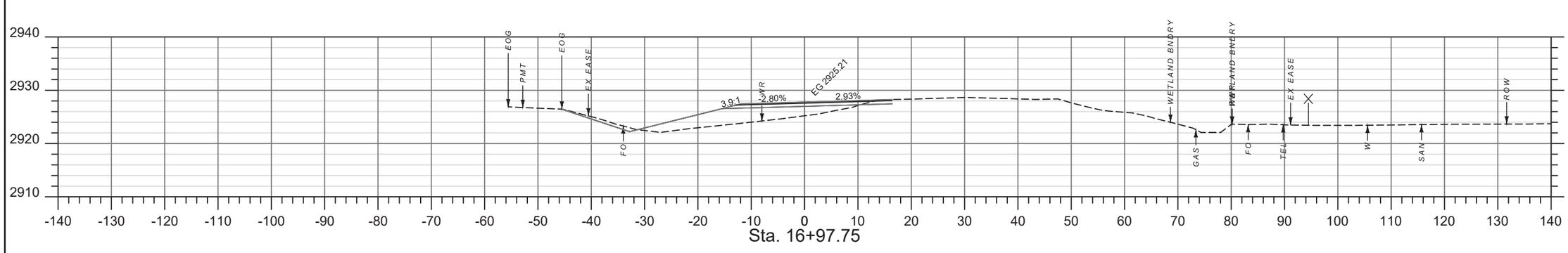
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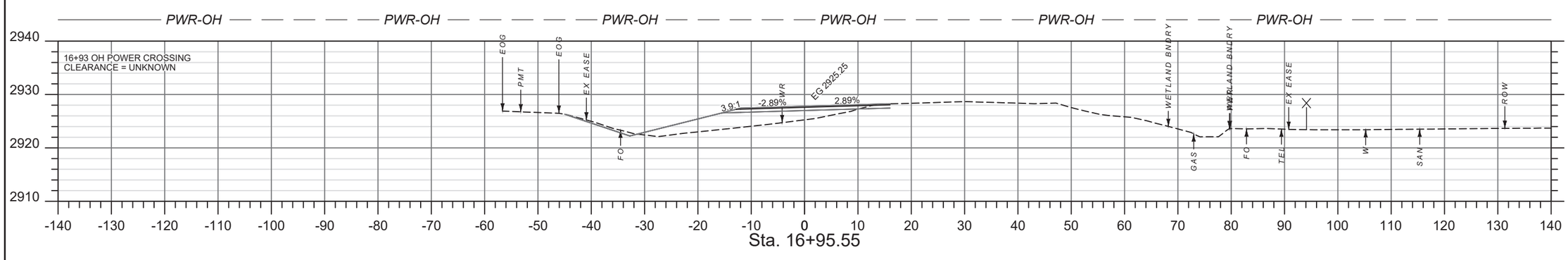
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AWARD COPY







SHEET NO.
25

CROSS SECTIONS
DETOUR

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

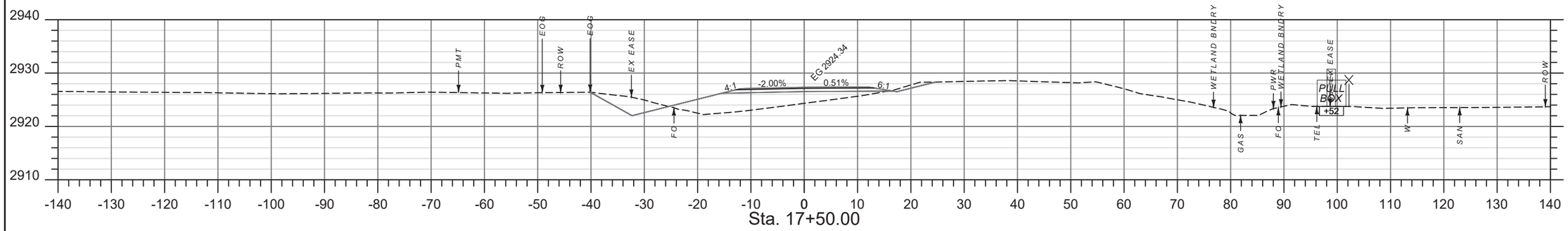
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MONTANA
Department of Transportation

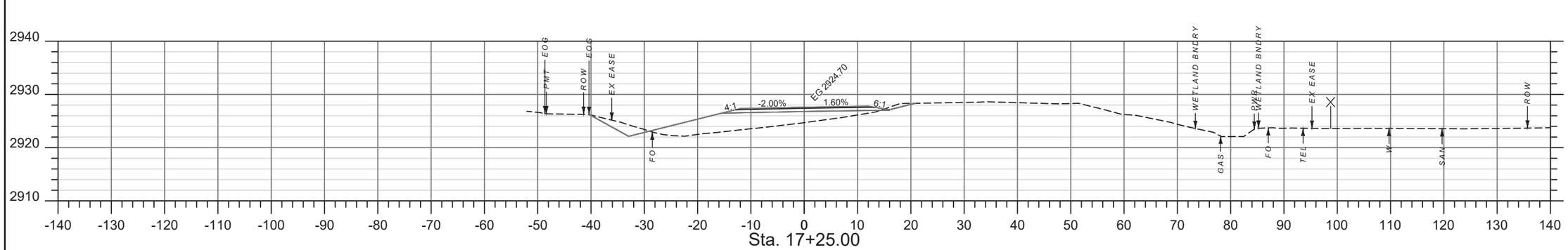
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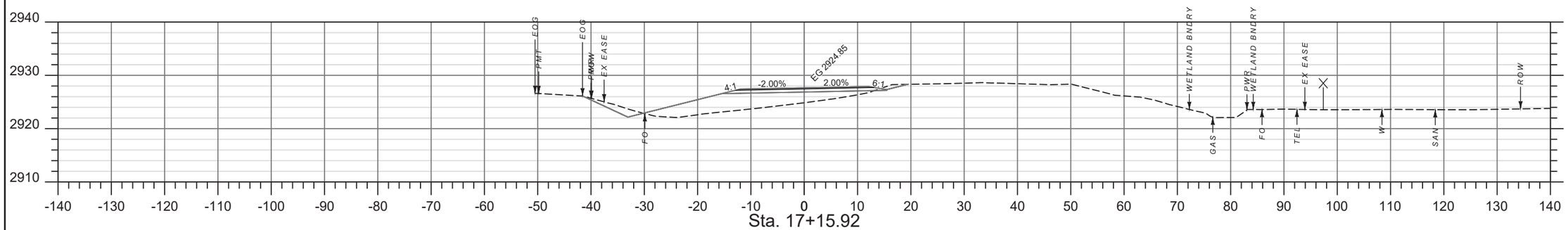
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Sta. 17+50.00



Sta. 17+25.00



Sta. 17+15.92

SHEET NO. 26

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY **FALLON COUNTY**

PROJECT ID **STPB 27-2(26)36**

UPN **9682000**

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

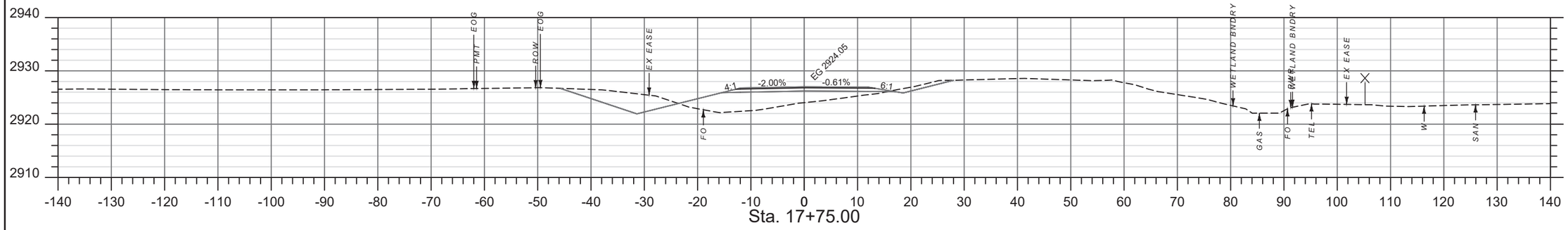
9682000RDLAY002.DWG

MONTANA Department of Transportation

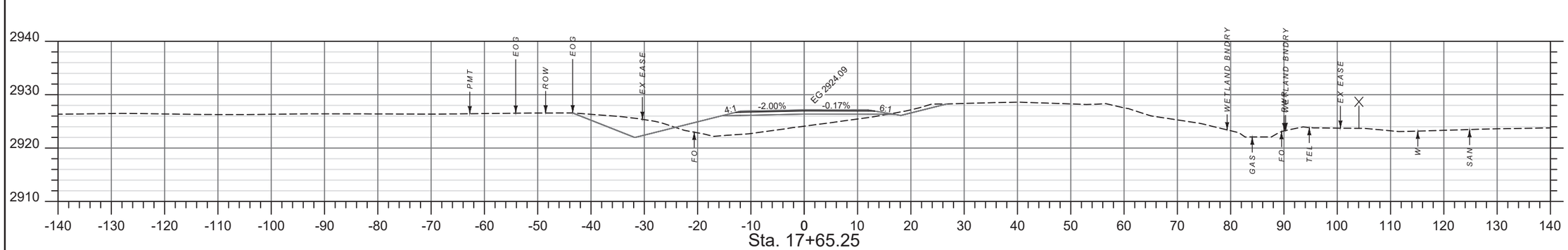
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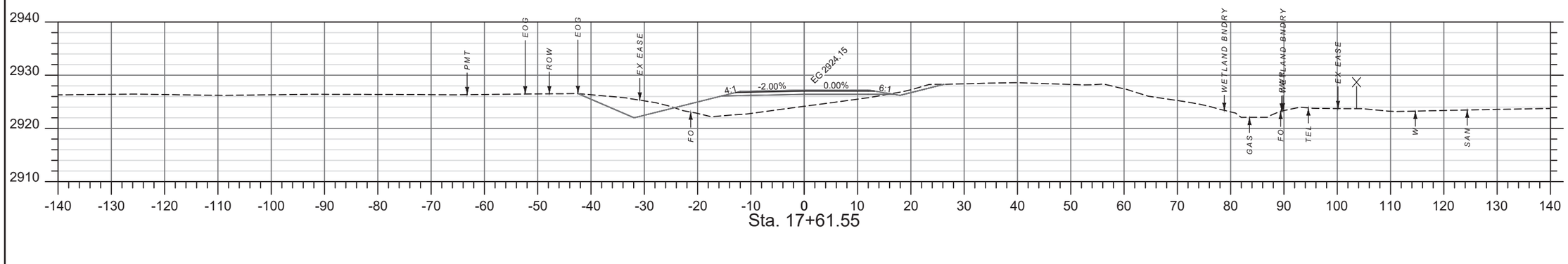
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Sta. 17+75.00



Sta. 17+65.25



Sta. 17+61.55

SHEET NO.
27

CROSS SECTIONS
DETOUR

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

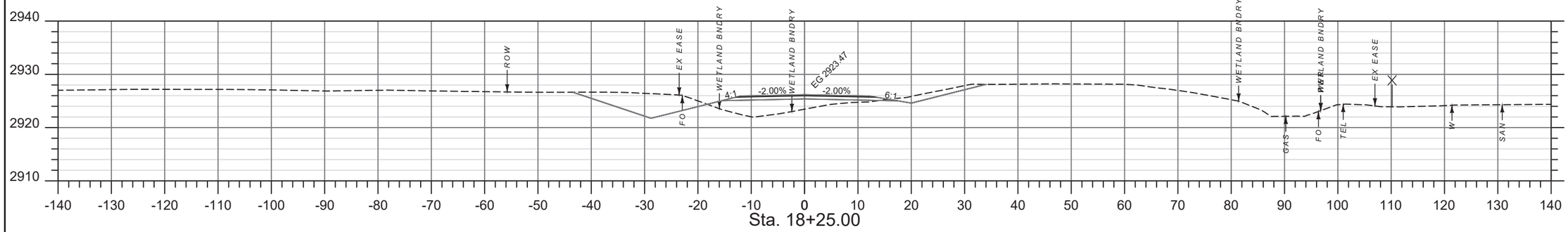
DESIGNED BY C. PERIMAN 02/23/23
REVIEWED BY
CHECKED BY

MONTANA
Department of Transportation

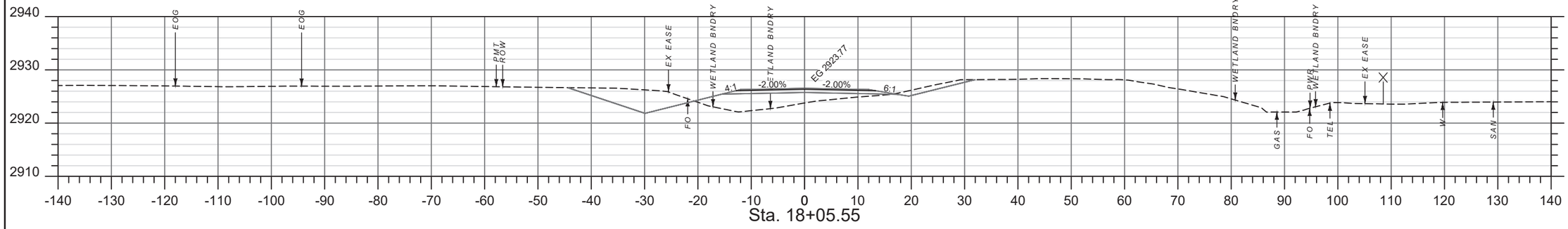
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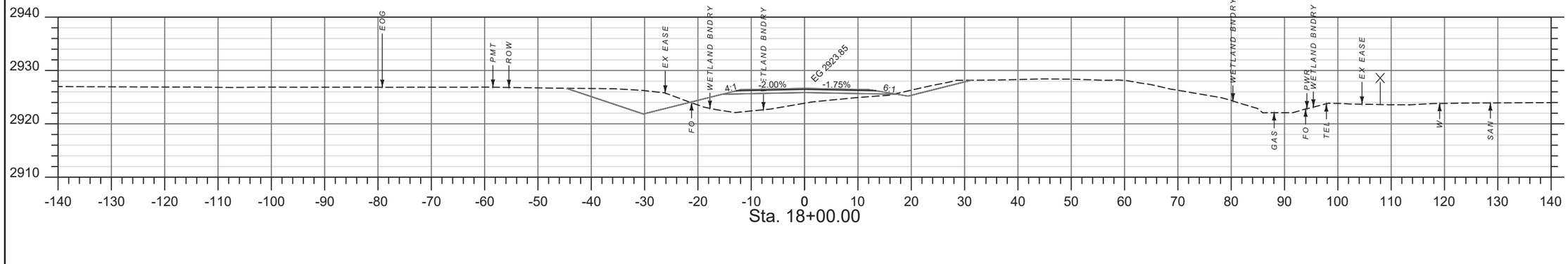
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Sta. 18+25.00



Sta. 18+05.55



Sta. 18+00.00

SHEET NO.
28

CROSS SECTIONS DETOUR

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

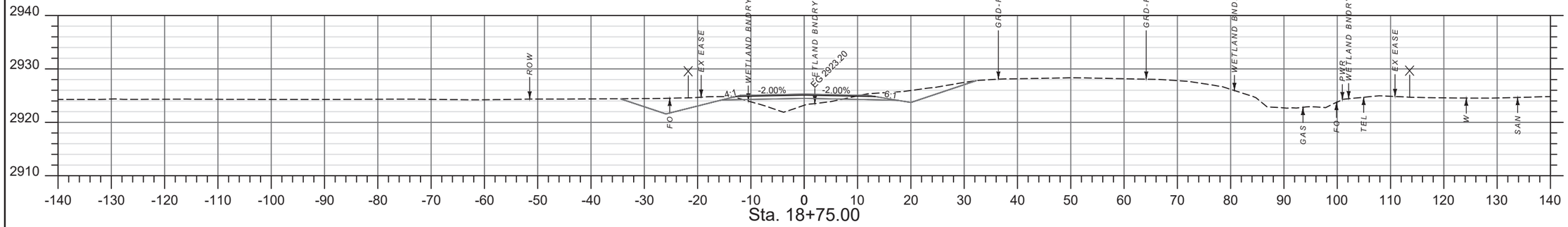
9682000RDLAY002.DWG

MONTANA Department of Transportation

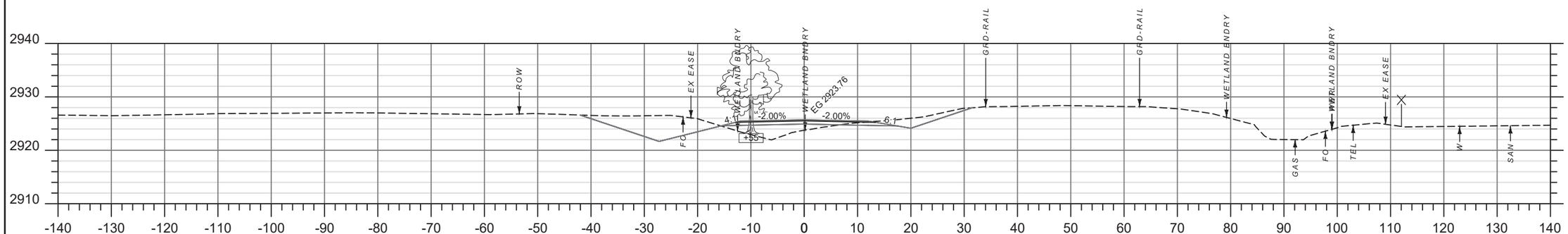
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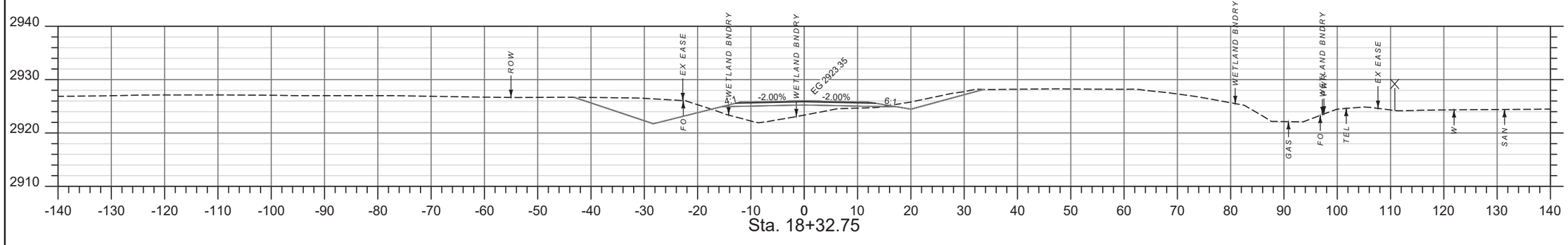
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Sta. 18+75.00



Sta. 18+50.00



Sta. 18+32.75

SHEET NO.
29

CROSS SECTIONS
DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY	
C. PERIMAN	02/23/23			9682000RDLAY002.DWG

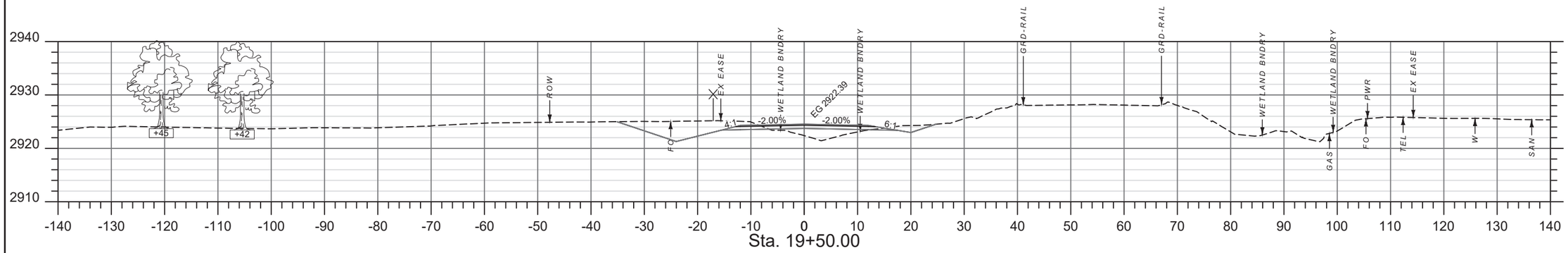
MONTANA
Department of Transportation

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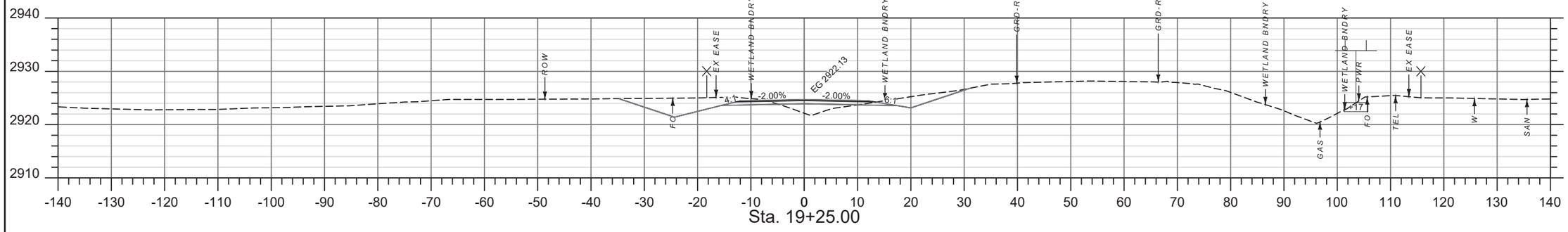
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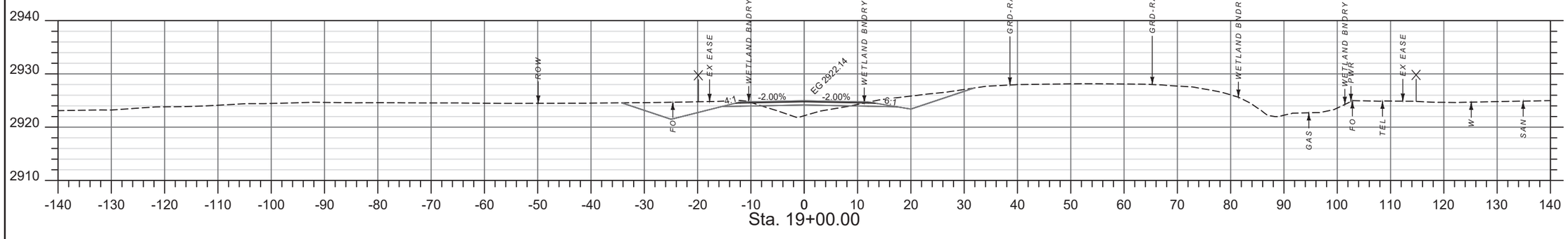
AWARD COPY



Sta. 19+50.00



Sta. 19+25.00



Sta. 19+00.00

SHEET NO.
30

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

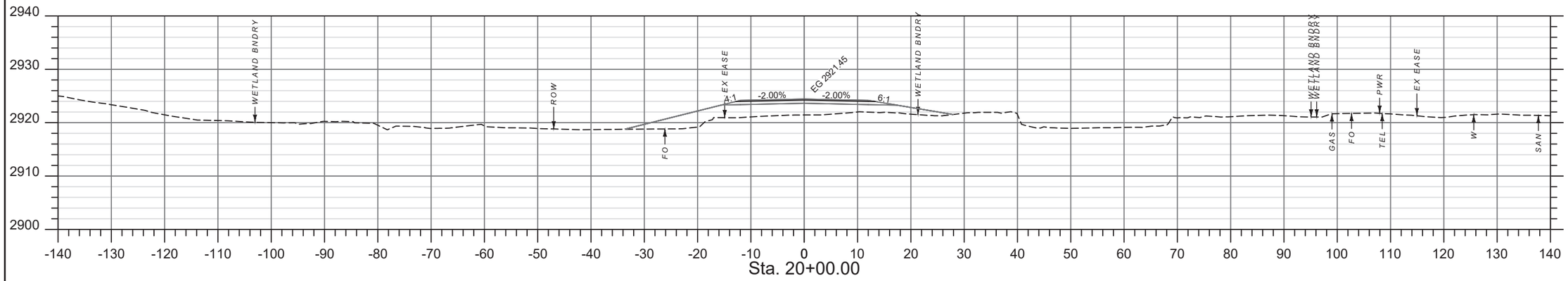
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MONTANA Department of Transportation

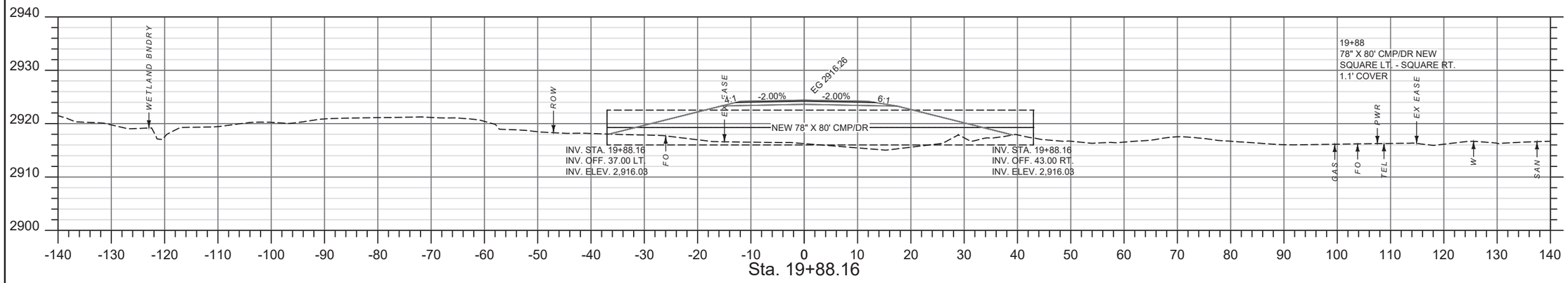
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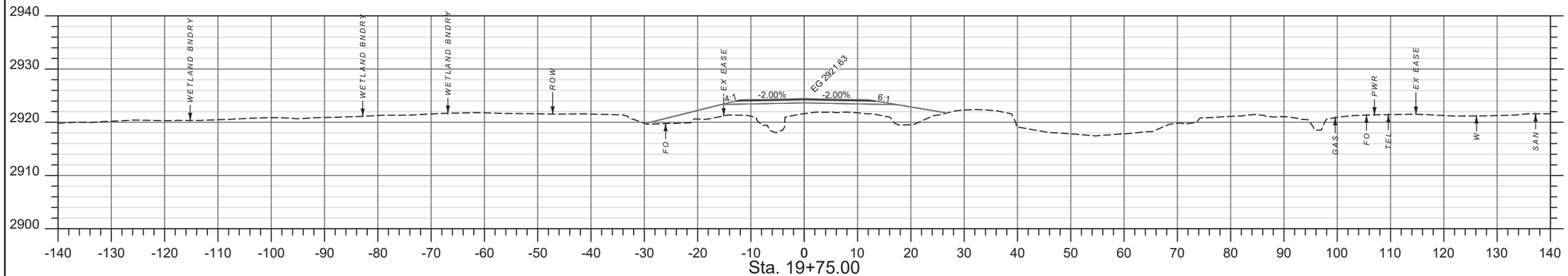
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Sta. 20+00.00



Sta. 19+88.16



Sta. 19+75.00

SHEET NO. 31

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY **FALLON COUNTY**

PROJECT ID **STPB 27-2(26)36**

UPN **9682000**

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

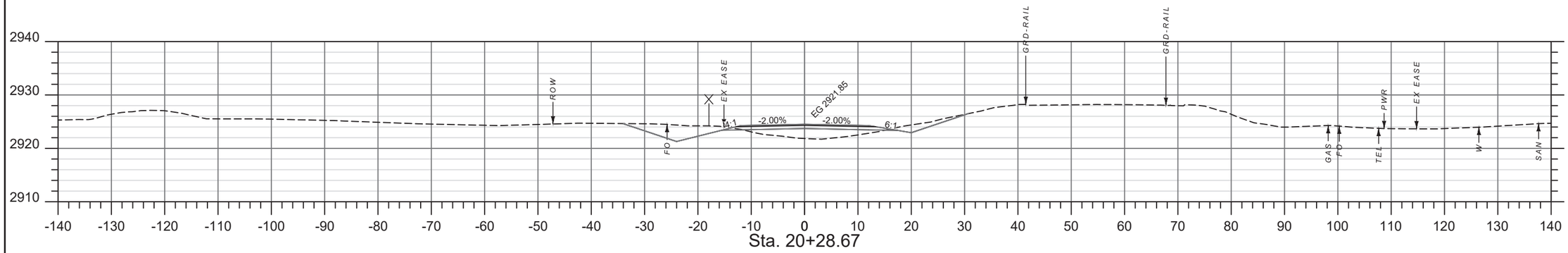
9682000RDLAY002.DWG

MONTANA Department of Transportation

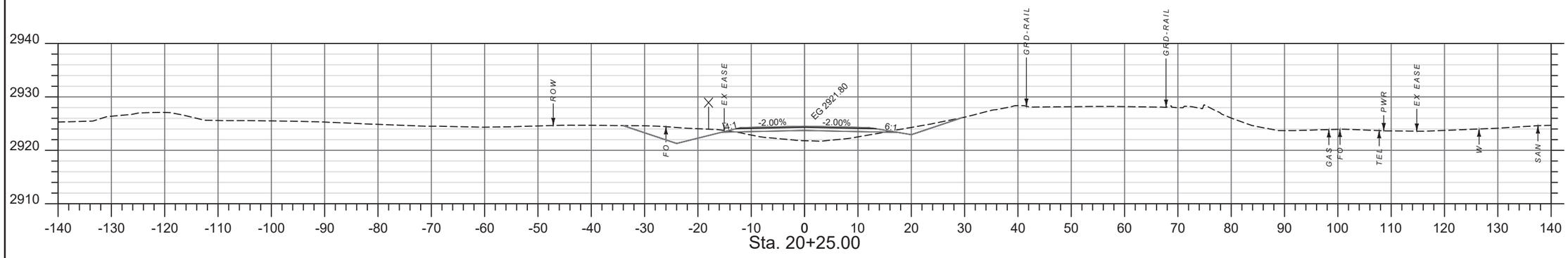
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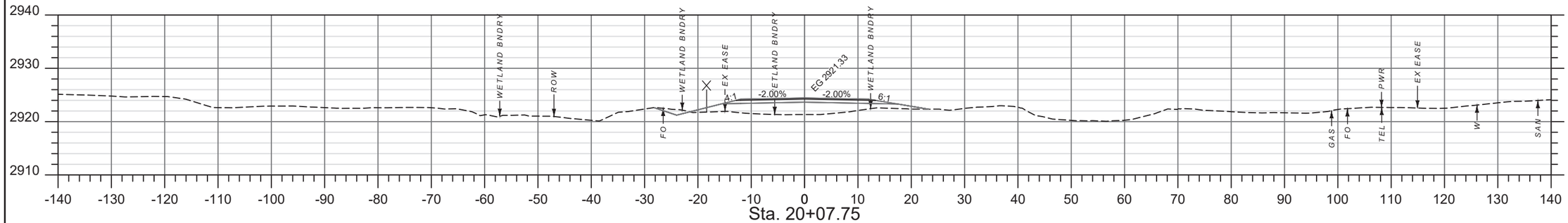
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Sta. 20+28.67



Sta. 20+25.00



Sta. 20+07.75

SHEET NO.
32

CROSS SECTIONS DETOUR

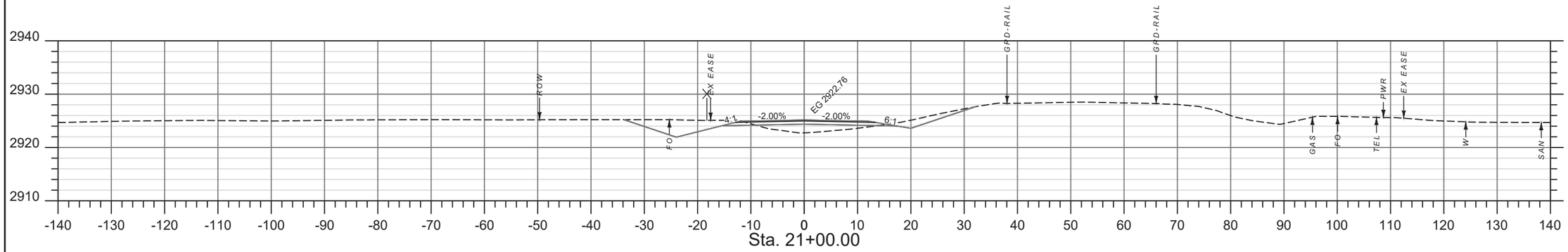
PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

DESIGNED BY C. PERIMAN 02/23/23
REVIEWED BY
CHECKED BY
9682000RDLAY002.DWG

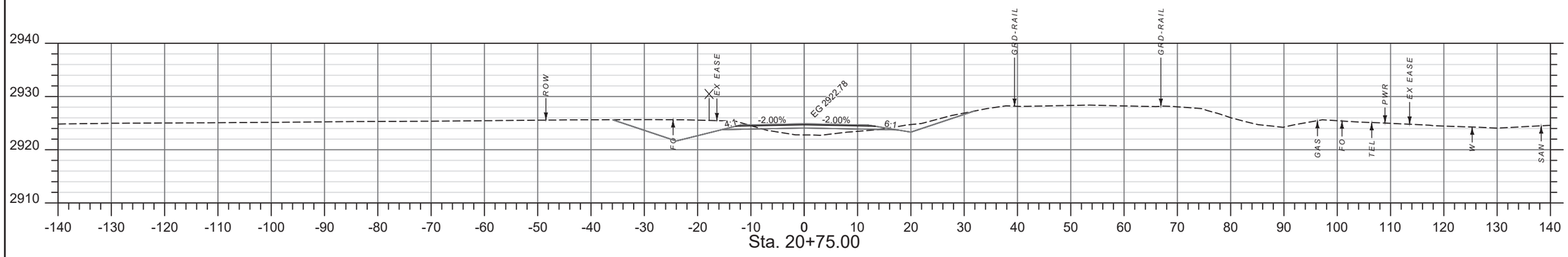
MONTANA Department of Transportation
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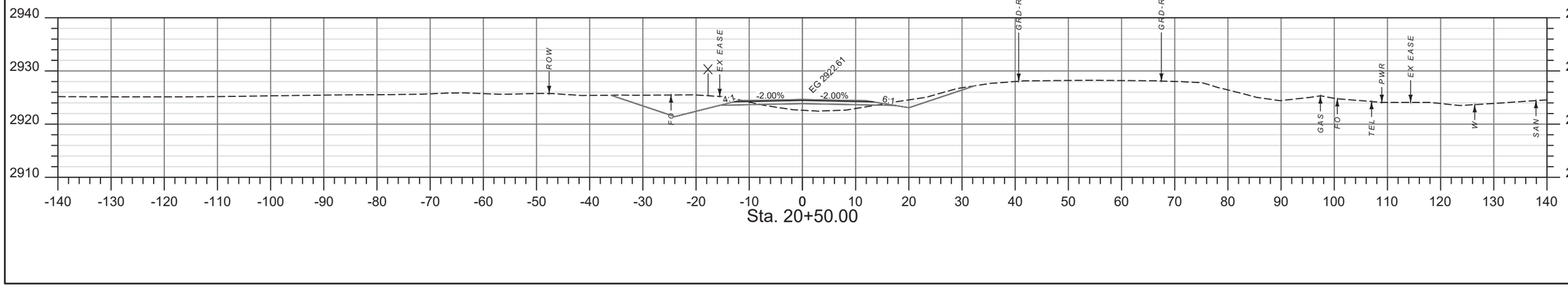
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Sta. 21+00.00



Sta. 20+75.00



Sta. 20+50.00

SHEET NO.
33

CROSS SECTIONS
DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

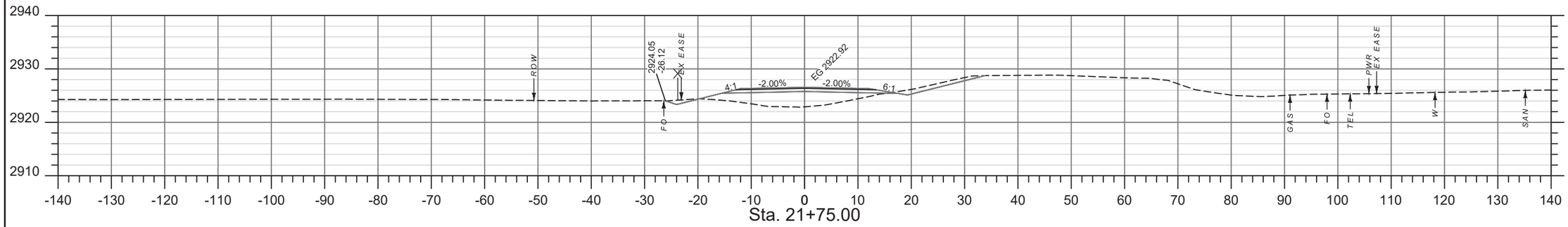
9682000RDLAY002.DWG

MONTANA
Department of Transportation

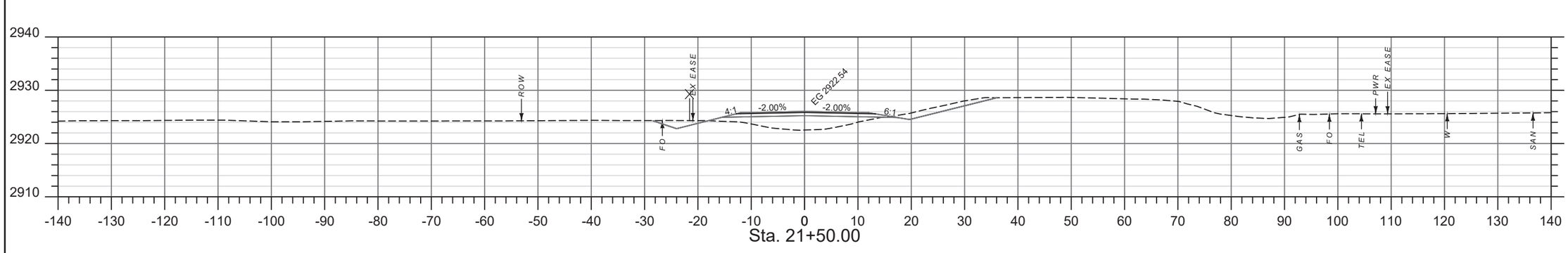
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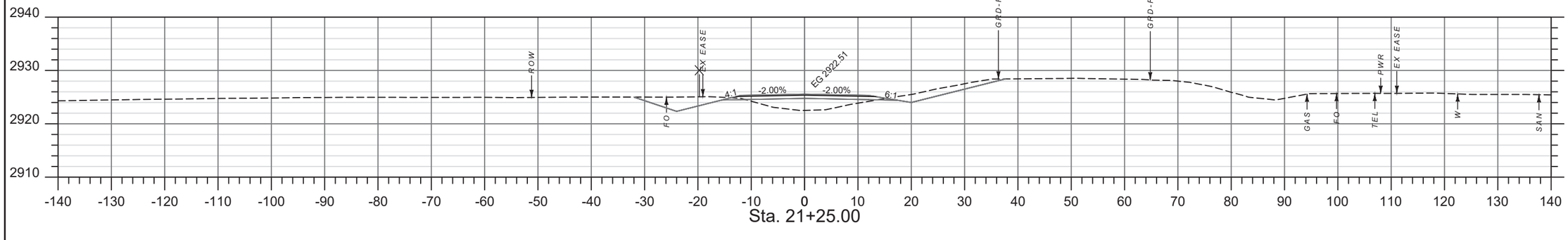
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Sta. 21+75.00



Sta. 21+50.00



Sta. 21+25.00

SHEET NO.
34

CROSS SECTIONS DETOUR

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	C. PERIMAN	02/23/23
REVIEWED BY		
CHECKED BY		

9682000RDLAY002.DWG

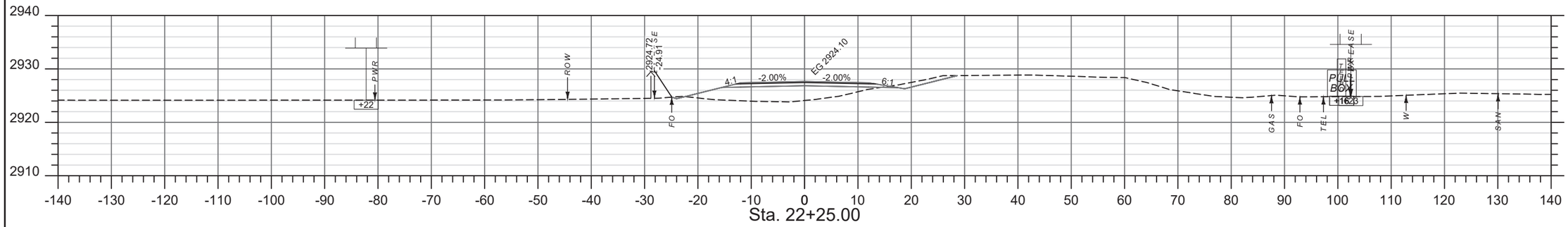
MONTANA Department of Transportation

ROAD DESIGN

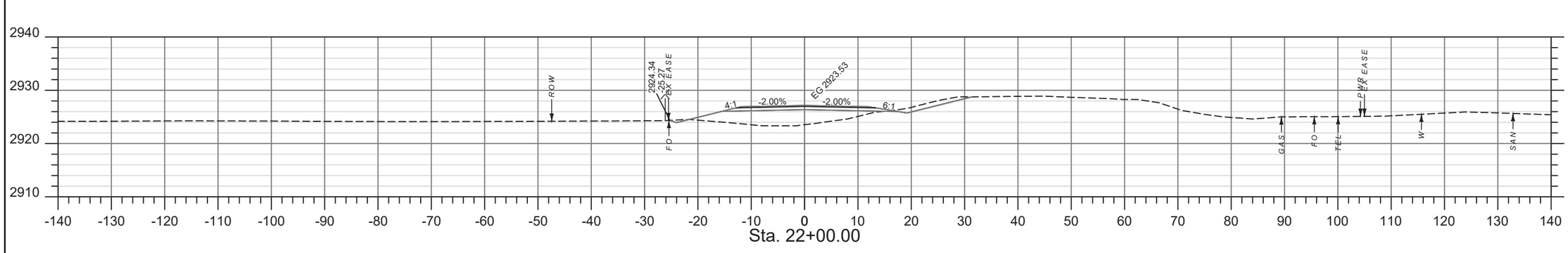
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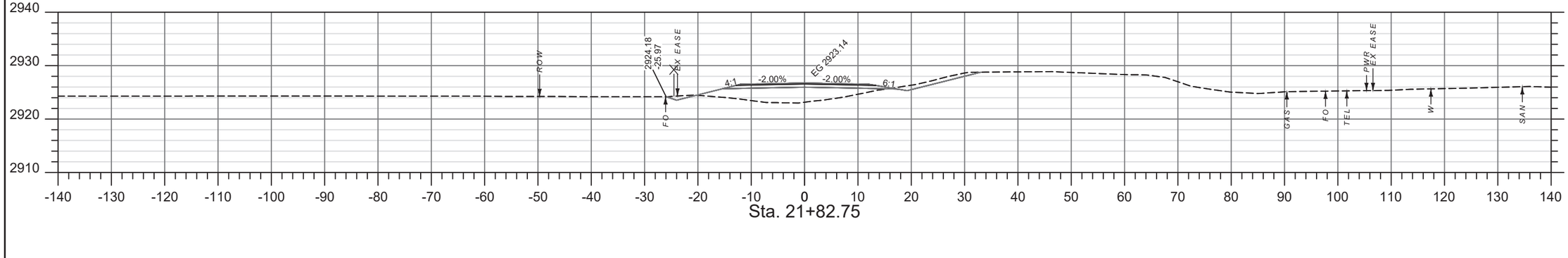
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Sta. 22+25.00



Sta. 22+00.00



Sta. 21+82.75

SHEET NO.
35

CROSS SECTIONS DETOUR

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

9682000RDLAY002.DWG

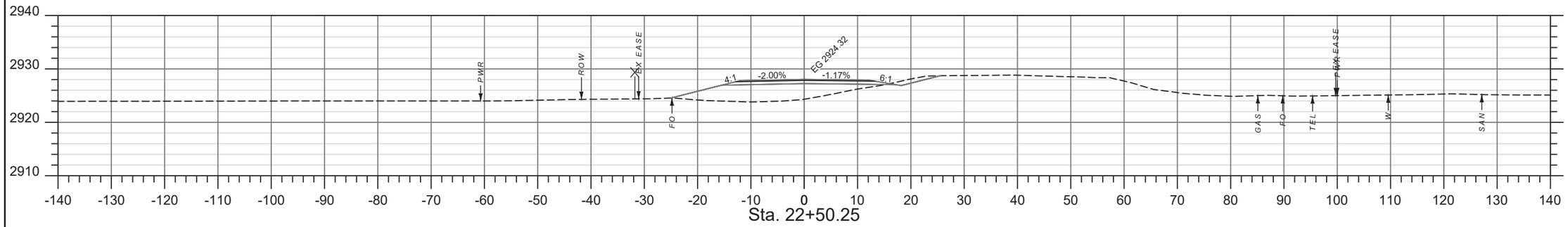
MONTANA Department of Transportation

ROAD DESIGN

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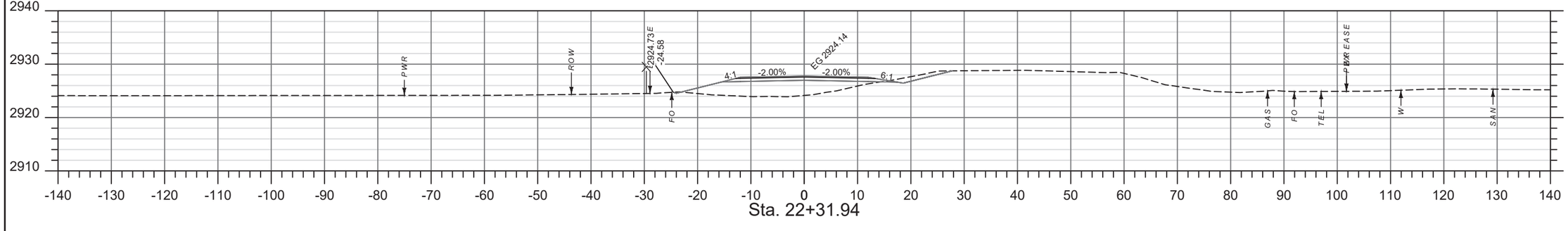
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AWARD COPY



Sta. 22+50.25

Sta. 22+50.00



Sta. 22+31.94

SHEET NO.
36

CROSS SECTIONS DETOUR

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

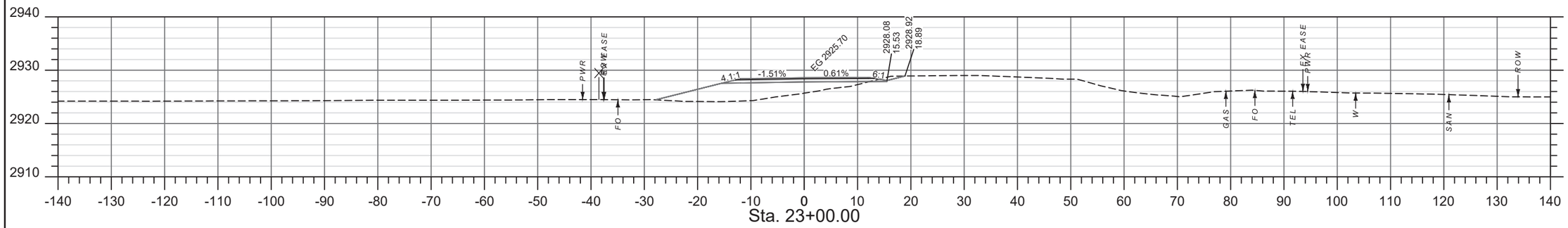
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MONTANA Department of Transportation

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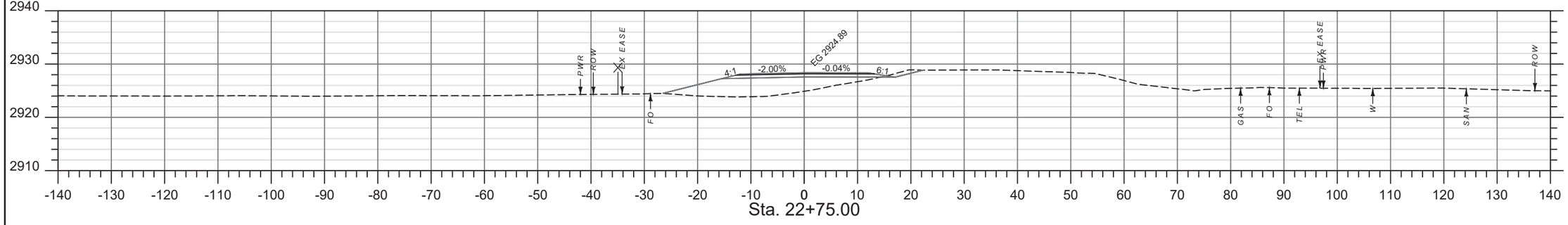
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Sta. 23+00.00

Sta. 22+75.94



Sta. 22+75.00

SHEET NO. 37

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**

COUNTY **FALLON COUNTY**

PROJECT ID **STPB 27-2(26)36**

UPN **9682000**

DESIGNED BY	DATE
C. PERIMAN	02/23/23
REVIEWED BY	
CHECKED BY	

9682000RDLAY002.DWG

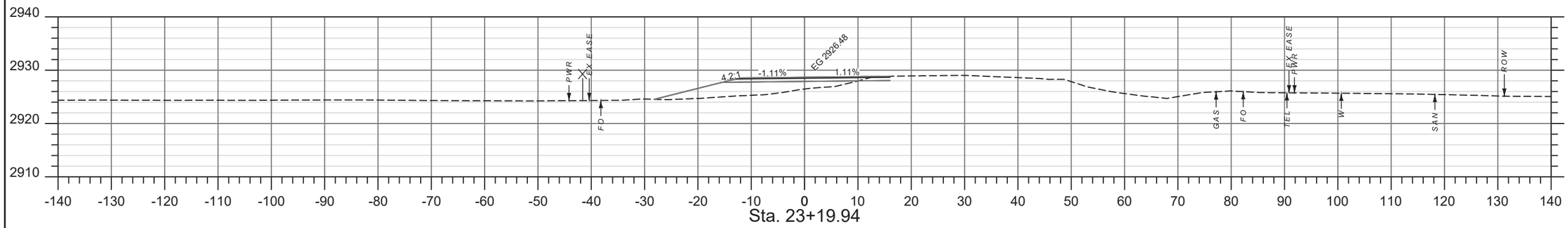
MONTANA Department of Transportation

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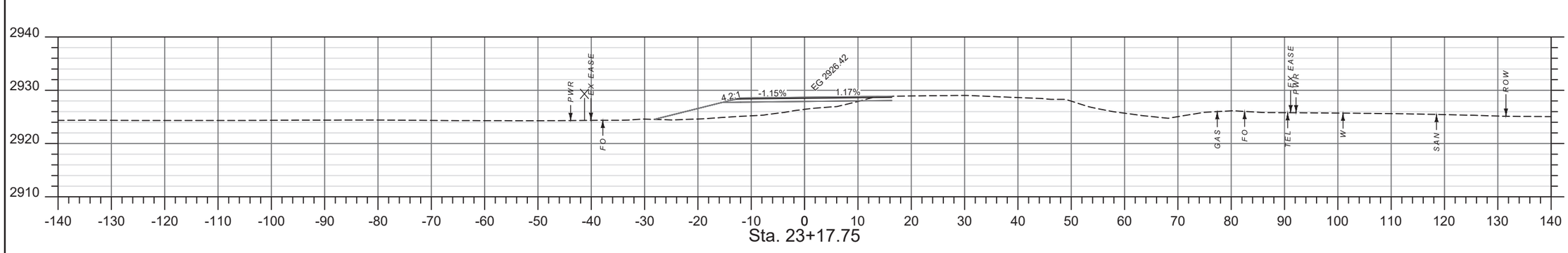
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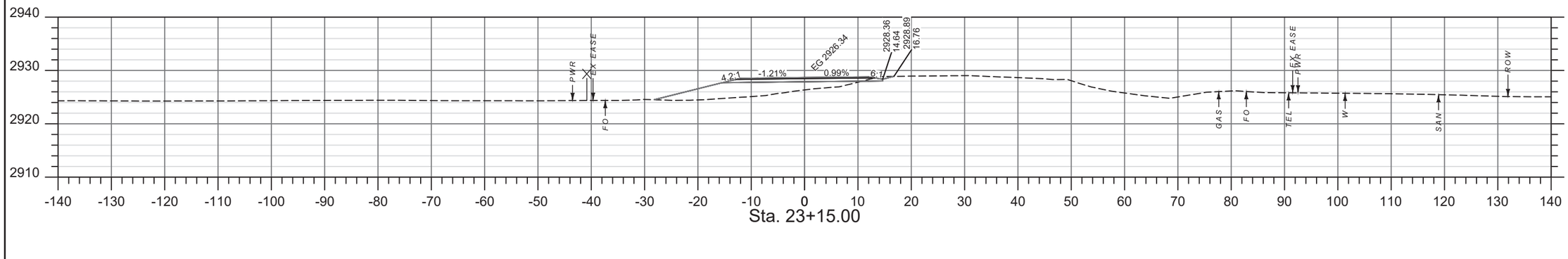
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Sta. 23+19.94



Sta. 23+17.75



Sta. 23+15.00

SHEET NO.
38

CROSS SECTIONS
DETOUR

PROJECT NAME SANDSTONE CREEK BRIDGE - BAKER
COUNTY FALLON COUNTY
PROJECT ID STPB 27-2(26)36
UPN 9682000

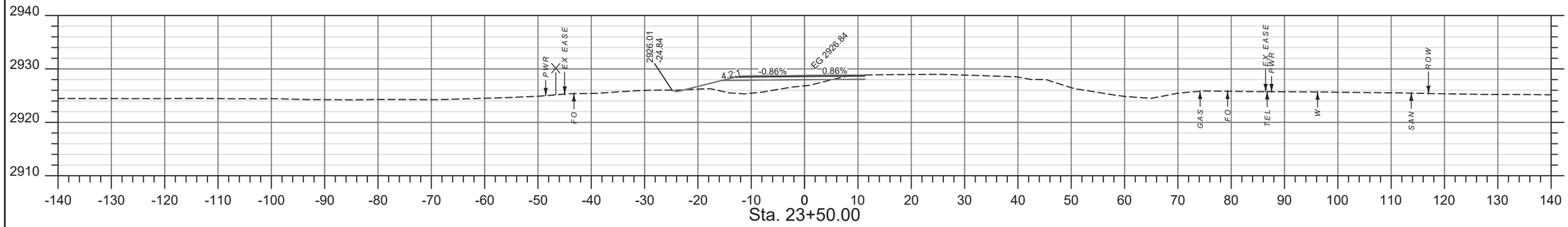
DESIGNED BY C. PERIMAN 02/23/23
REVIEWED BY
CHECKED BY
9682000RDLAY002.DWG

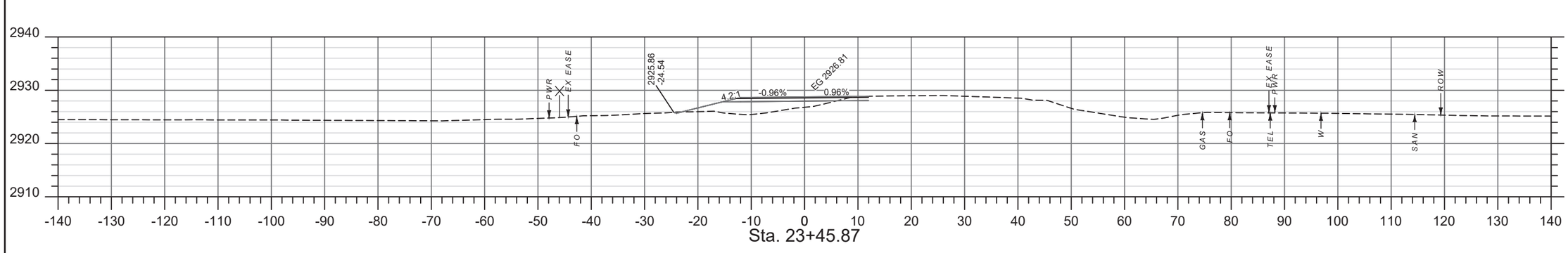
MONTANA
Department of Transportation

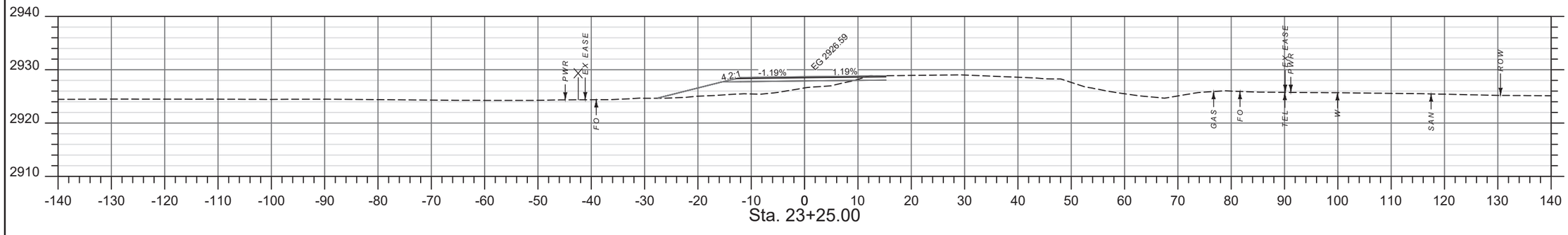
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SHEET NO.
39

CROSS SECTIONS DETOUR

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	02/23/23	9682000RDLAY002.DWG
C. PERIMAN		
REVIEWED BY		
CHECKED BY		

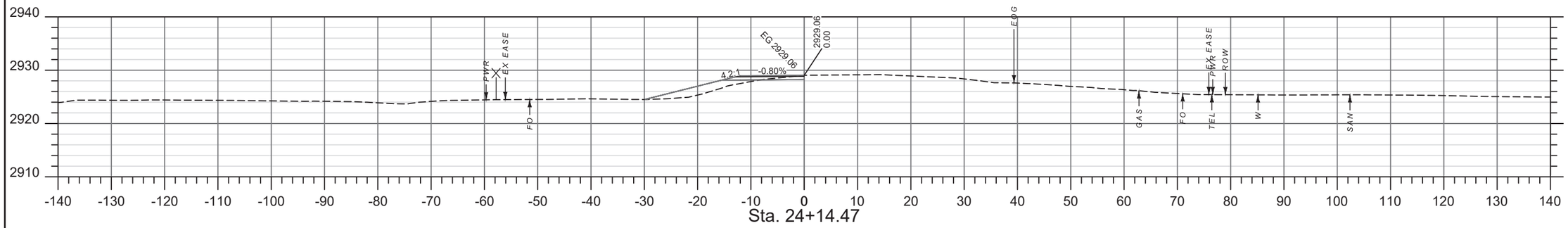
MONTANA Department of Transportation

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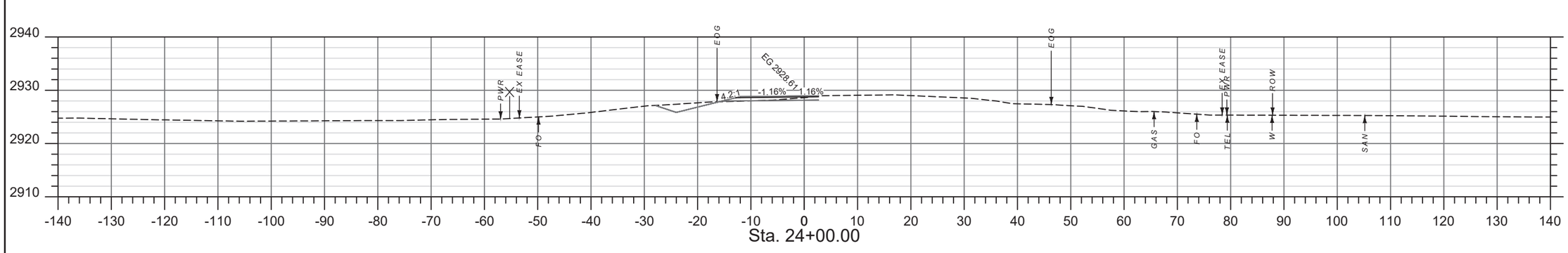
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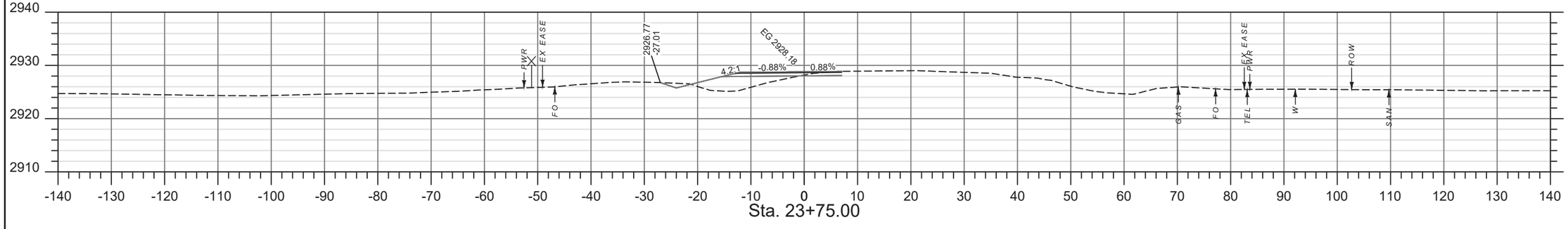
AWARD COPY



Sta. 24+14.47



Sta. 24+00.00



Sta. 23+75.00

SHEET NO.
40

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

9682000RDLAY002.DWG

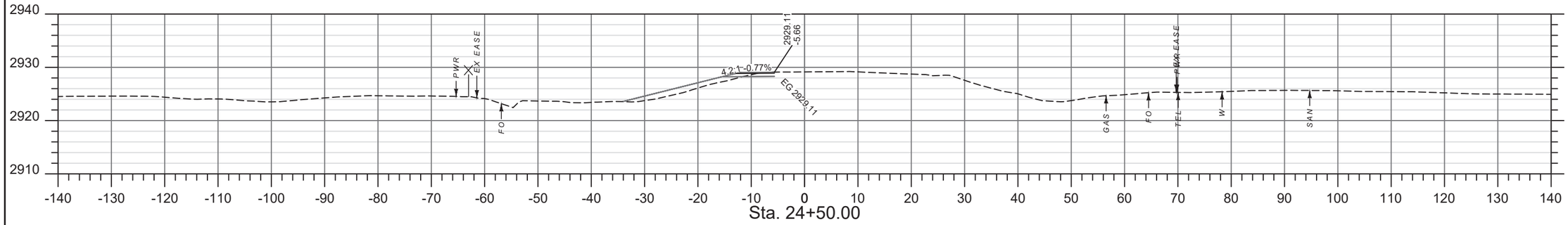
MONTANA Department of Transportation

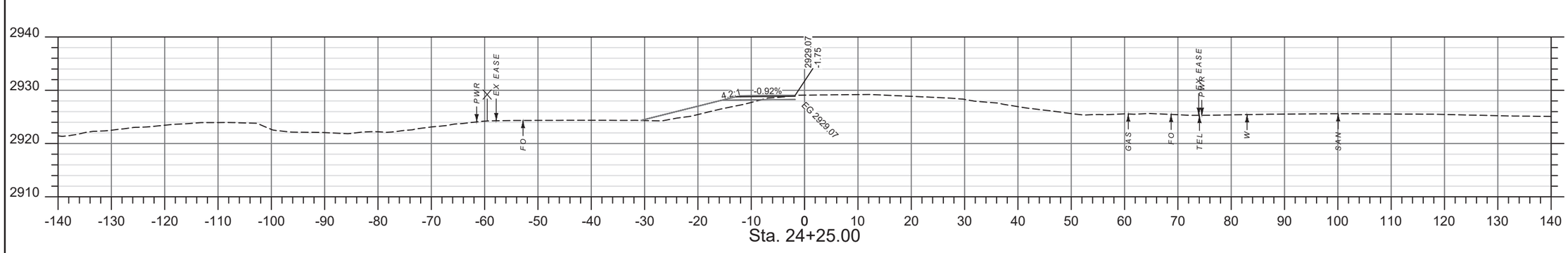
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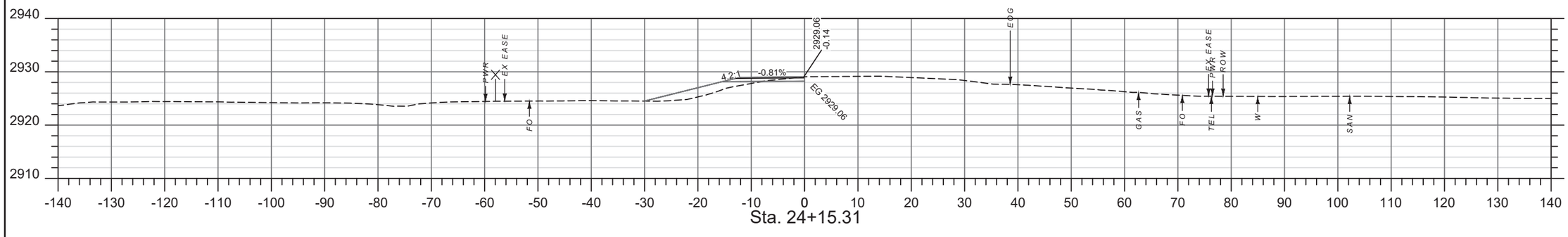
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AWARD COPY







SHEET NO.
41

CROSS SECTIONS DETOUR

PROJECT NAME: **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY: **FALLON COUNTY**
PROJECT ID: **STPB 27-2(26)36**
UPN: **9682000**

DESIGNED BY	DATE	REVIEWED BY	CHECKED BY
C. PERIMAN	02/23/23		

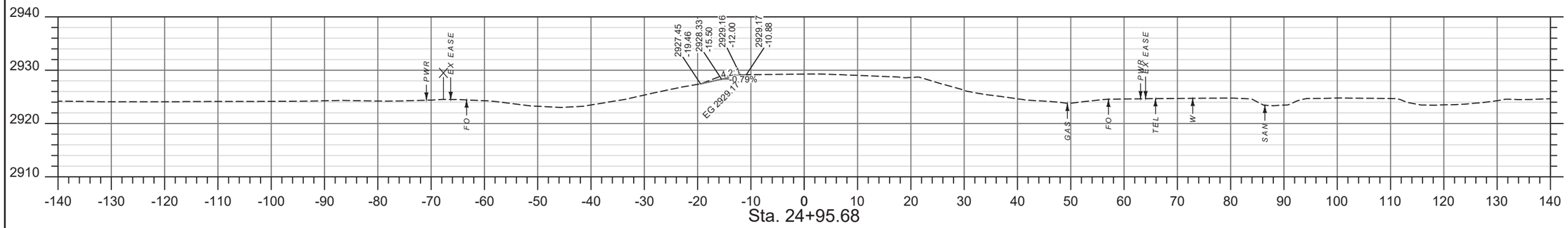
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MONTANA Department of Transportation

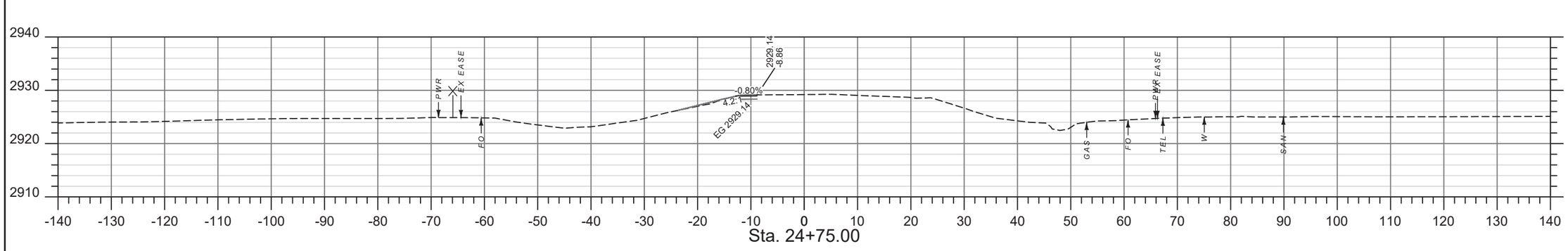
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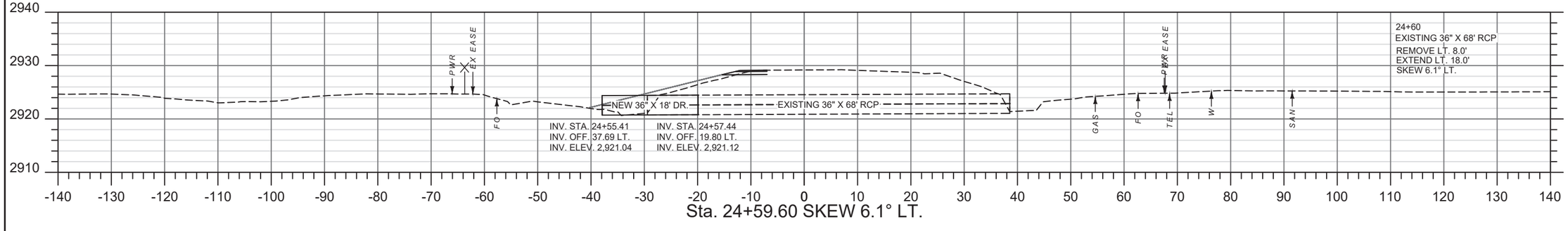
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Sta. 24+95.68



Sta. 24+75.00



Sta. 24+59.60 SKEW 6.1° LT.

SHEET NO.
42

CROSS SECTIONS DETOUR

PROJECT NAME **SANDSTONE CREEK BRIDGE - BAKER**
COUNTY **FALLON COUNTY**
PROJECT ID **STPB 27-2(26)36**
UPN **9682000**

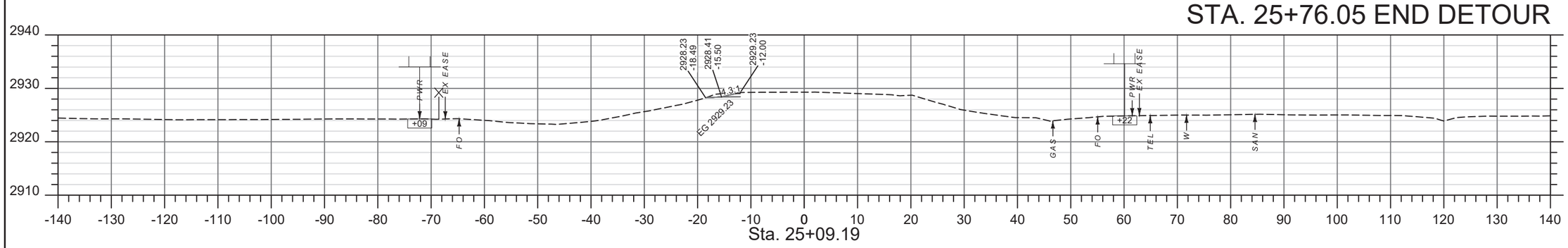
DESIGNED BY C. PERIMAN 02/23/23
REVIEWED BY
CHECKED BY
9682000RDLAY002.DWG

MONTANA Department of Transportation
ROAD DESIGN
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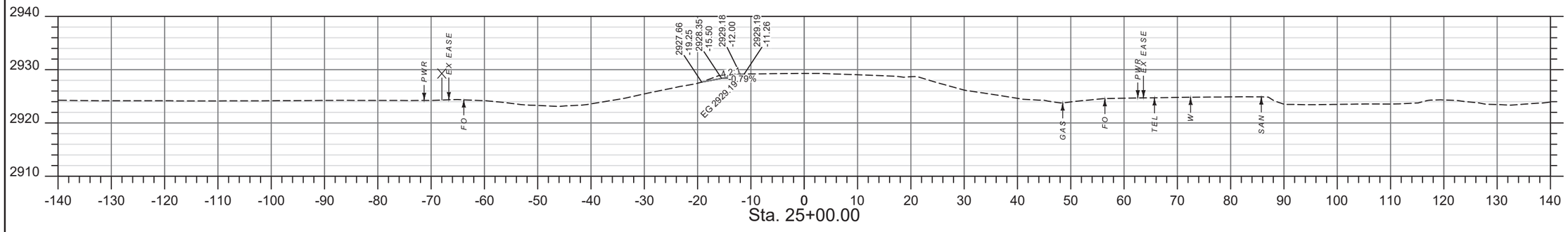
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AWARD COPY

STA. 25+76.05 END DETOUR



Sta. 25+09.19



Sta. 25+00.00

SHEET NO. 43

CROSS SECTIONS DETOUR

PROJECT NAME: SANDSTONE CREEK BRIDGE - BAKER
COUNTY: FALLON COUNTY
PROJECT ID: STPB 27-2(26)36
UPN: 9682000

DESIGNED BY: C. PERIMAN 02/23/23
REVIEWED BY:
CHECKED BY:

MONTANA Department of Transportation

ROAD DESIGN

9682000RDLAY002.DWG

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