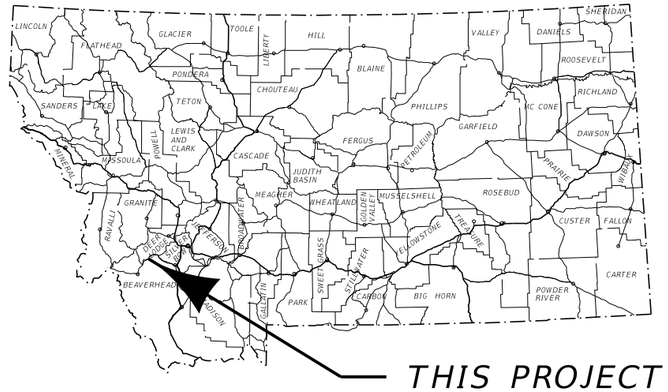
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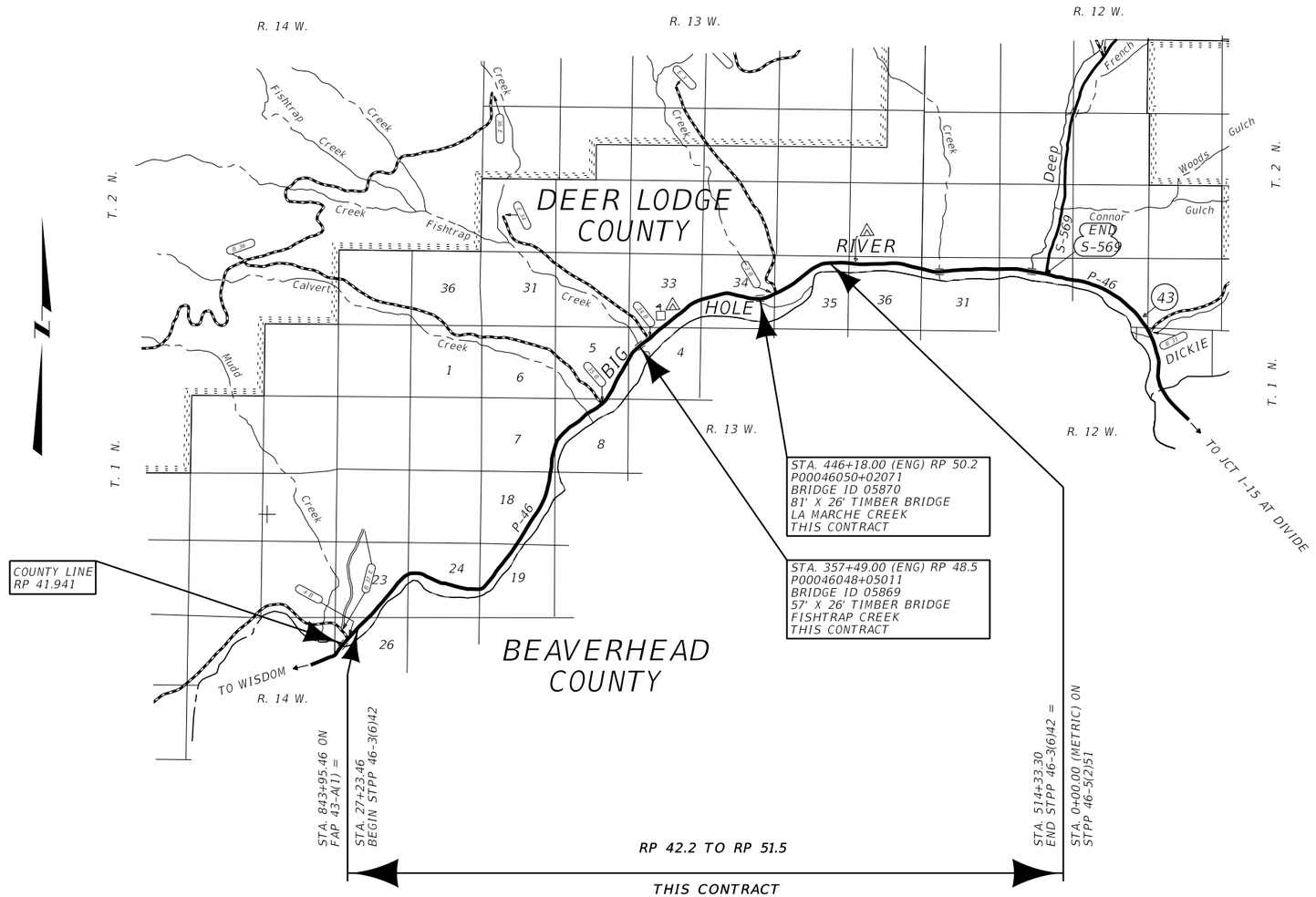
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPP 46-3(6)42
MILL, PMS OVERLAY, SEAL & COVER
FISHTRAP - EAST & WEST (MT-43)
DEER LODGE COUNTY

PROJECT DESIGN DATA		
PRESENT	2018	A.D.T. = 310
LETTING	2019	A.D.T. = 310
DESIGN	2039	A.D.T. = 420
		D.H.V. = 90
		TRUCKS = 10.7 %
		V. = 60 MPH
		18 KIP ESAL'S = 13 DAILY
		GROWTH RATE = 1.5 % ANNUALLY

LENGTH 9.2 MILES

SURFACING SOURCES – CONTRACTOR FURNISHED



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000rdtl001.dgn	DESIGNED BY	J. BRAZILL	8/20/2019	ROAD PLANS
2		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019	
		11:08:07 AM CPS – U3829	CHECKED BY	T. JOHNSON	9/3/2021	UPN 9485000

TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
NOTES	2
LINEAR DATA	2
TYPICAL SECTIONS	3-4
SUMMARIES	5-6
SURFACING	5
ADDITIONAL SURFACING	5
PAVEMENT MARKINGS	5
GUARDRAIL	6
COLD MILLING	6
PLANS	7-15
SIGNING PLANS	
SUMMARY	S1
SPECIFICATIONS	S2-S6
DETAILS	S7
PLANS	S8-S13
BRIDGE PLANS	
AS-BUILT DRAWINGS	1 SHEET

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
ASPHALT CEMENT - GRADE S - 3/4" AGG.	= 5.4% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
SCRUB SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

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.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

STATIONING

STATIONING USED IN PLANS WAS GENERATED BY A BEST FIT METHOD. IT IS NOT INTENDED TO BE EXACT, BUT REPRESENTS LOCATIONS WHERE WORK IS REQUIRED.

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):

43-A(1) (CONSTRUCTION - 1941)
43-B(1) (CONSTRUCTION - 1941)
F 46-3(2)42 (RECONSTRUCTION - 1989)
STPP 46-5(2)51 (RECONSTRUCTION - 2010)
STPP 46-3(4)42 (OVERLAY - 2014)

LINEAR DATA

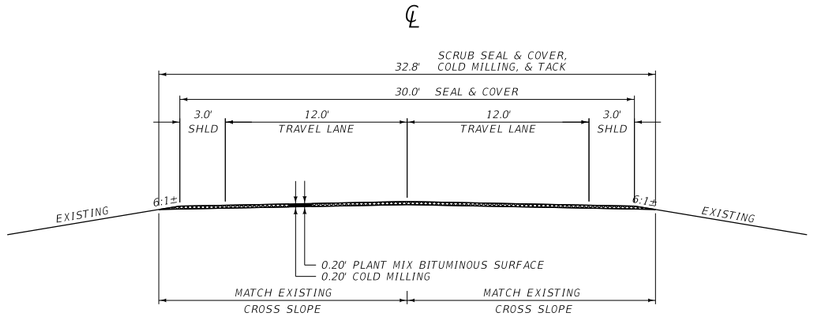
LENGTH OF ROADWAY	DEER LODGE COUNTY	RURAL	48,571.84 ft
LENGTH OF BRIDGE	DEER LODGE COUNTY	RURAL	138.00 ft
TOTAL LENGTH OF	STPP 46-3(6)42	RURAL	48,709.84 ft

AWARD COPY

TYPICAL SECTION NO. 1

MAINLINE

STA. 27+23.46 TO STA. 32+48.50
STA. 32+48.50 TO STA. 34+48.50 TRANSITION FROM TYP. NO. 1 TO TYP. NO. 2



QUANTITIES

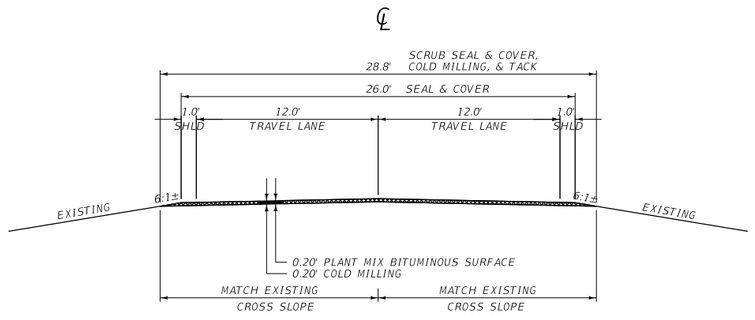
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	SCRUB SEAL COVER	PLANT MIX		ASPHALT CEMENT	SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT TACK *
AREA square feet			6.28	square yards PER STATION		333	364	364
cubic yards PER STATION			23.3	tons PER STATION	2.42	0.59	0.65	
tons PER STATION			44.9	gallons PER STATION				18
square yards PER STATION	333	364						

* QUANTITIES BASED ON 1 APPLICATION

TYPICAL SECTION NO. 2

MAINLINE

STA. 34+48.50 TO STA. 357+20.50 BE THEN TYP. NO. 3
STA. 357+77.50 BE TO STA. 445+77.50 BE THEN TYP. NO. 3
STA. 446+58.50 BE TO STA. 513+78.50
STA. 513+78.50 TO STA. 514+33.30 TRANSITION FROM TYP. NO. 2 TO TYP. NO. 1



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	SCRUB SEAL COVER	PLANT MIX		ASPHALT CEMENT	SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT TACK *
AREA square feet			5.48	square yards PER STATION		289	320	320
cubic yards PER STATION			20.3	tons PER STATION	2.11	0.52	0.57	
tons PER STATION			39.1	gallons PER STATION				16
square yards PER STATION	289	320						

* QUANTITIES BASED ON 1 APPLICATION

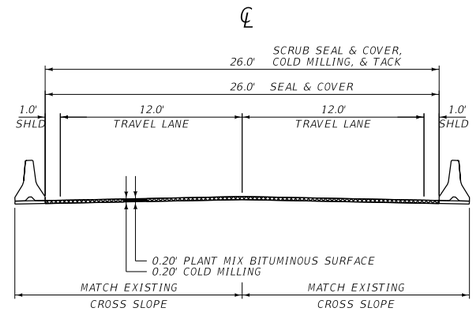
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000rdtyp001.dgn	DESIGNED BY J. BRAZILL	8/20/2019	ROAD PLANS	FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021	REVIEWED BY K. MUELLER	8/20/2019			
		11:08:23 AM CPS - U3829	CHECKED BY T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	03

AWARD COPY

TYPICAL SECTION NO. 3

MAINLINE

STA. 357+20.50 BE TO STA. 357+77.50 BE THEN TYP. NO. 2
STA. 445+77.50 BE TO STA. 446+58.50 BE THEN TYP. NO. 2



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	SCRUB SEAL COVER	PLANT MIX		ASPHALT CEMENT	SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT TACK *
AREA square feet			5.20	square yards PER STATION		289	289	289
cubic yards PER STATION			19.3	tons PER STATION	2.00	0.52	0.52	
tons PER STATION			37.2	gallons PER STATION				14
square yards PER STATION	289	289						

* QUANTITIES BASED ON 1 APPLICATION

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE square yards COVER TYPE 1	AGGREGATE square yards COVER TYPE 1 SCRUB SEAL	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT TACK	REMARKS
27+23.46	32+48.50	525.04	525.04					1,748	1,911	236	12.7	3.1	3.4	95	TYPICAL SECTION NO. 1
32+48.50	34+48.50	200.00	200.00					622	684	84	4.5	1.1	1.2	34	TRANSITION TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
34+48.50	357+20.50 BE	32,272.00	32,272.00					93,266	103,270	12,618	680.9	167.8	184.0	5,164	TYPICAL SECTION NO. 2
357+20.50 BE	357+77.50 BE	57.00			57.00	BRIDGE		165	165	21	1.1	0.3	0.3	8	TYPICAL SECTION NO. 3, FISHTRAP CREEK BRIDGE
357+77.50 BE	445+77.50 BE	8,800.00	8,800.00					25,432	28,160	3,441	185.7	45.8	50.2	1,408	TYPICAL SECTION NO. 2
445+77.50 BE	446+58.50 BE	81.00			81.00	BRIDGE		234	234	30	1.6	0.4	0.4	11	TYPICAL SECTION NO. 3, LA MARCHE CREEK BRIDGE
446+58.50 BE	513+78.50	6,720.00	6,720.00					19,421	21,504	2,628	141.8	34.9	38.3	1,075	TYPICAL SECTION NO. 2
513+78.50	514+33.30	54.80	54.80					170	187	23	1.2	0.3	0.3	9	TRANSITION TYP. SECT. NO. 2 TO TYP. SECT. NO. 1
						ADDITIONAL SURFACING		2,479	~	~	~	4.5	~	~	
TOTAL		48,709.84	48,571.84	~	138.00		267	143,537	156,115	19,081	1,029.5	258.2	278.1	7,804	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE square yards COVER TYPE 1	AGGREGATE square yards COVER TYPE 1 SCRUB SEAL	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT TACK	REMARKS
211+10.00	216+00.00							2,365	~	~	~	4.3	~	~	RT. TURNOUT AREA
253+63.00	255+75.00							114	~	~	~	0.2	~	~	RT. TURNOUT AREA
SUBTOTAL		~	~	~	~		~	2,479	~	~	~	4.5	~	~	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	334		334
STRIPING - YELLOW PAINT	gallon	164		164
STRIPING - WHITE EPOXY	gallon		446	446
STRIPING - YELLOW EPOXY	gallon		219	219
TEMPORARY STRIPING	linear feet			95,634
FINAL SWEEP AND BROOM	mile			9.2

QUANTITIES BASED ON TWO APPLICATIONS.

SUMMARY

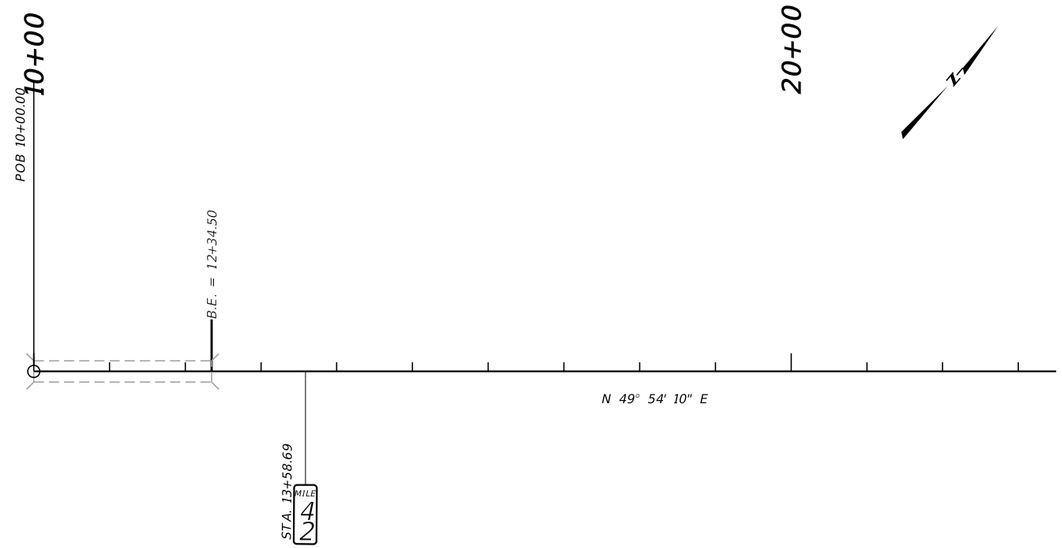
GUARDRAIL

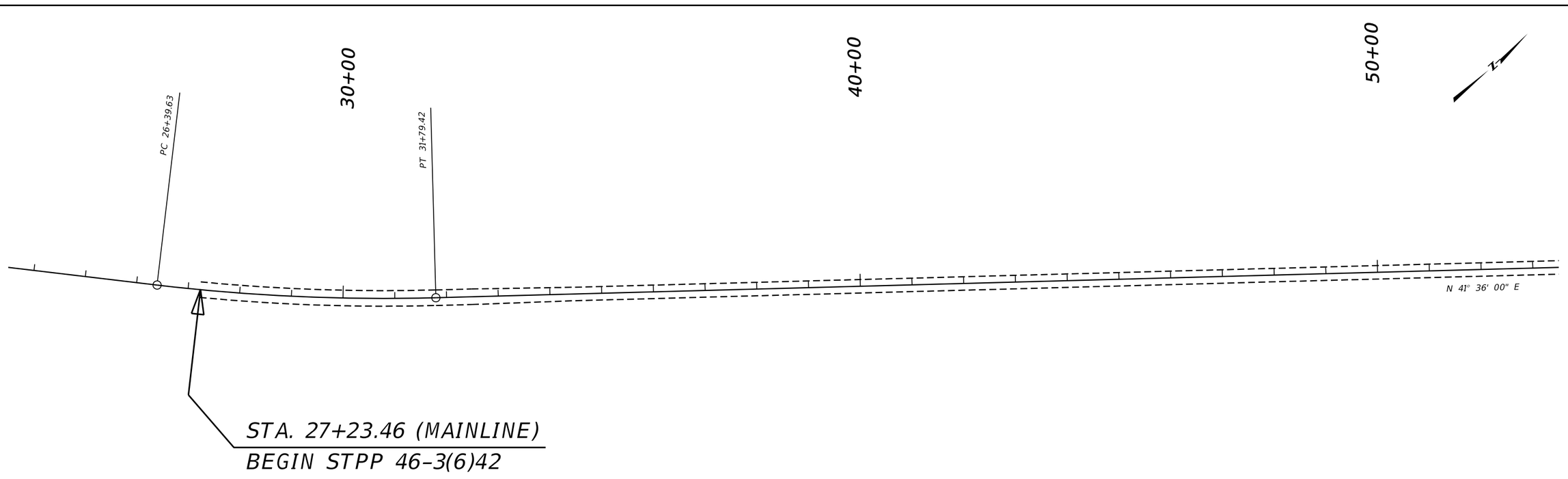
STATION		linear feet						each				REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MGS GUARDRAIL LONG POST		MASH W-BEAM TERMINAL SECTION		GUARDRAIL END SECTION WIDENING		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
240+55.00	265+05.00		2,450.0									
240+67.50	265+14.38						2,375.0		2		2	
453+62.00	463+87.00		1,025.0									
453+74.50	463+96.38				950.0				2		2	
501+90.62	510+90.62	900.0										
501+84.37	510+78.12			825.0				2		2		
SUBTOTAL		900.0	3,475.0	825.0	950.0	~	2,375.0	2	4	2	4	
TOTAL		4,375.0		1,775.0		2,375.0		6		6		

COLD MILLING

STATION		square yards		REMARKS
		COLD MILLING		
FROM	TO	0.20 ft		
27+23.46	32+48.50	1,913		TYPICAL SECTION NO. 1
32+48.50	34+48.50	684		TRANS. TYP. NO. 1 TO TYP. NO. 2
34+48.80	357+20.50 BE	103,269		TYPICAL SECTION NO. 2
357+20.50 BE	357+77.50 BE	165		TYPICAL SECTION NO. 3, FISHTRAP CREEK BRIDGE
357+77.50 BE	445+77.50 BE	28,160		TYPICAL SECTION NO. 2
445+77.50 BE	446+58.50 BE	234		TYPICAL SECTION NO. 3, LA MARCHE CREEK BRIDGE
446+58.50 BE	513+78.50	21,504		TYPICAL SECTION NO. 2
513+78.50	514+33.30	187		TRANS. TYP. NO. 2 TO TYP. NO. 1
SUBTOTAL		156,116		
TOTAL		156,116		

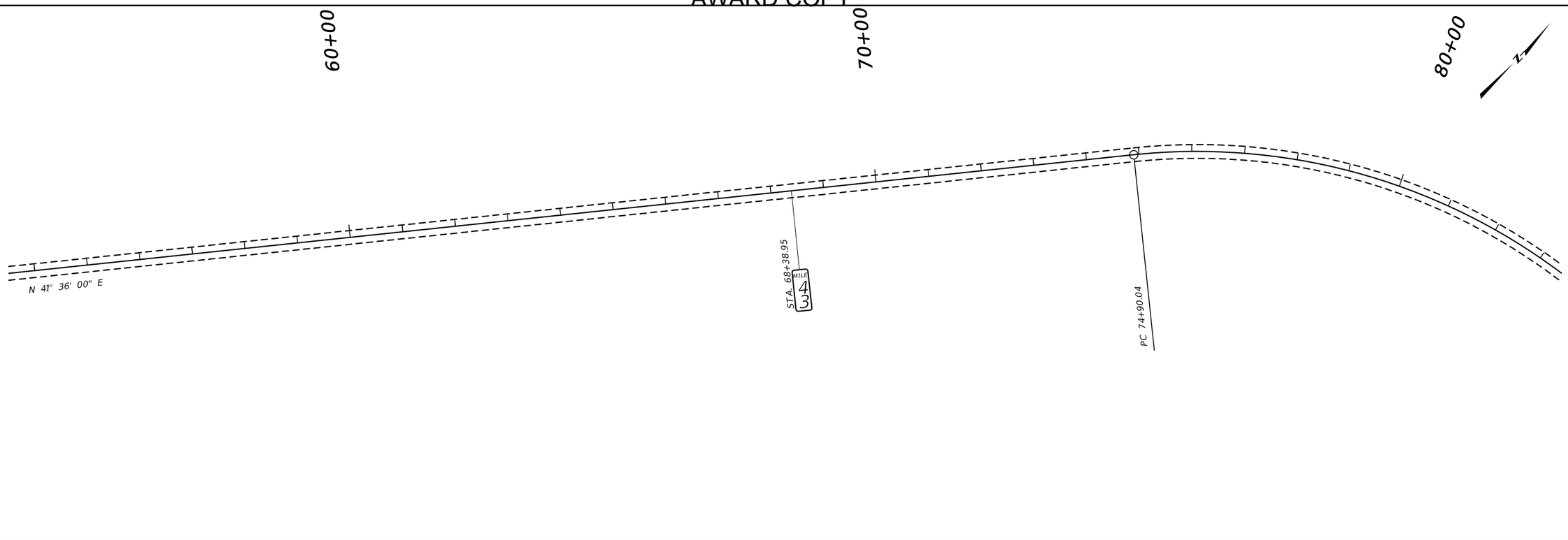
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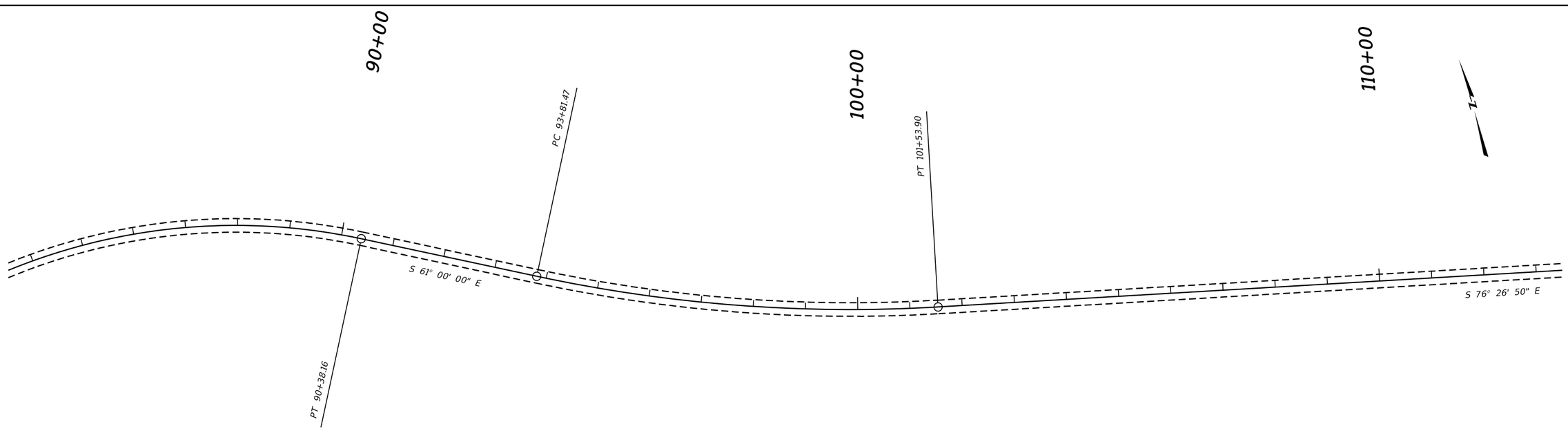




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2		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019			
		11:08:59 AM CPS - U3829	CHECKED BY	T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	07

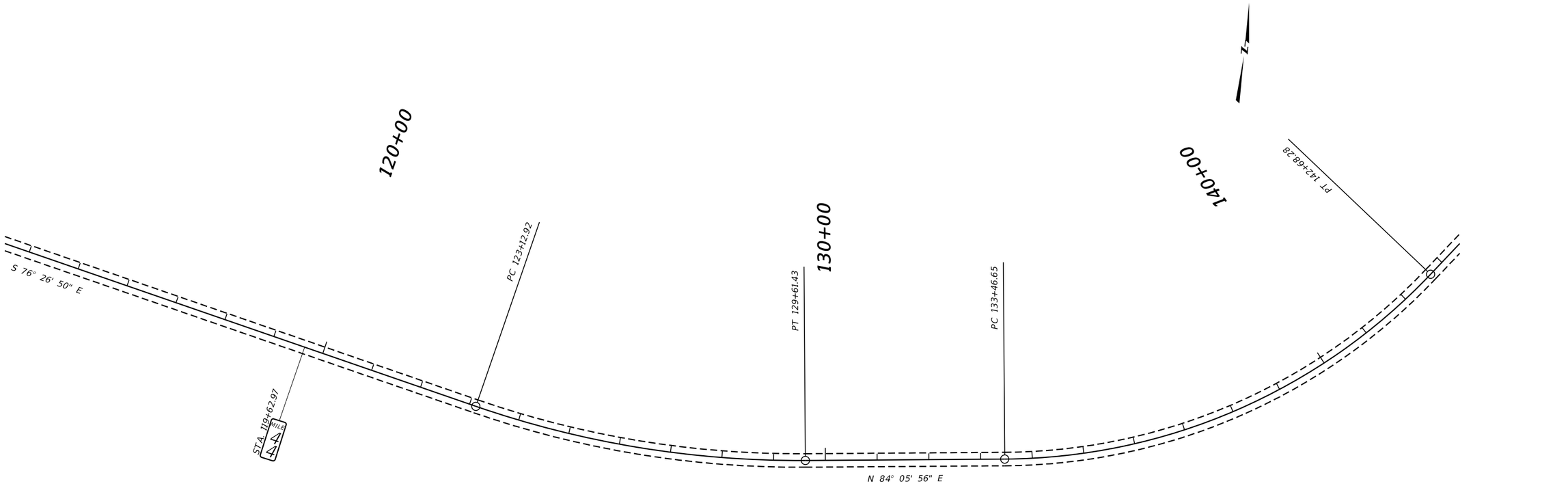
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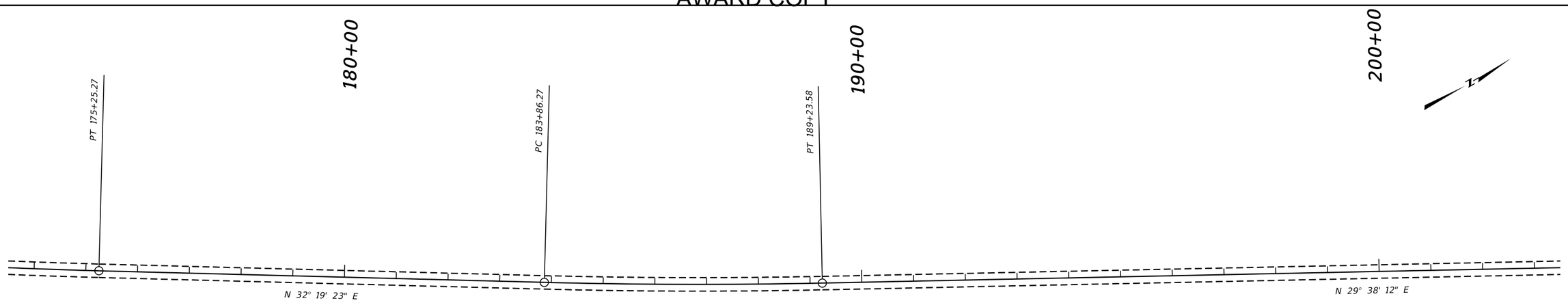
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		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019		
		11:09:02 AM CPS - U3829	CHECKED BY	T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000 / 08

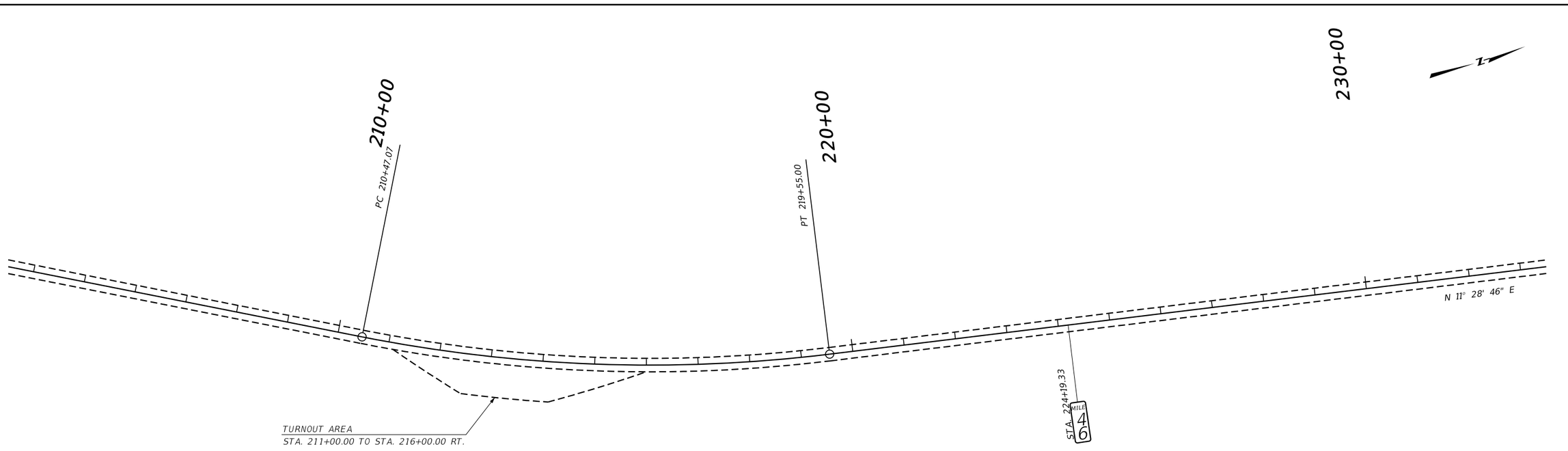
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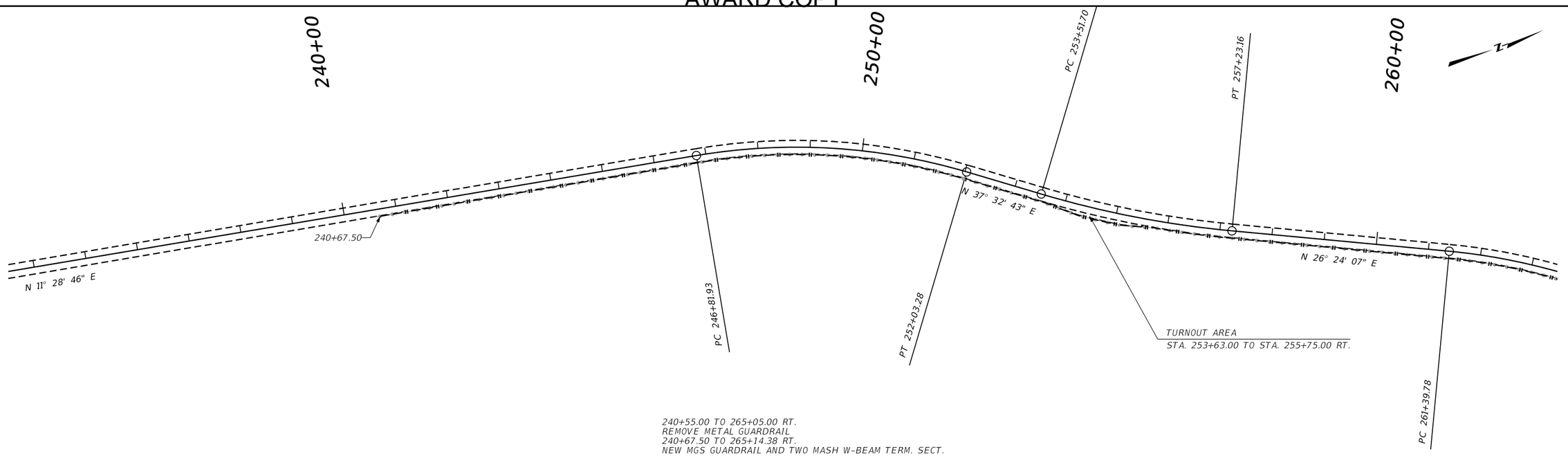
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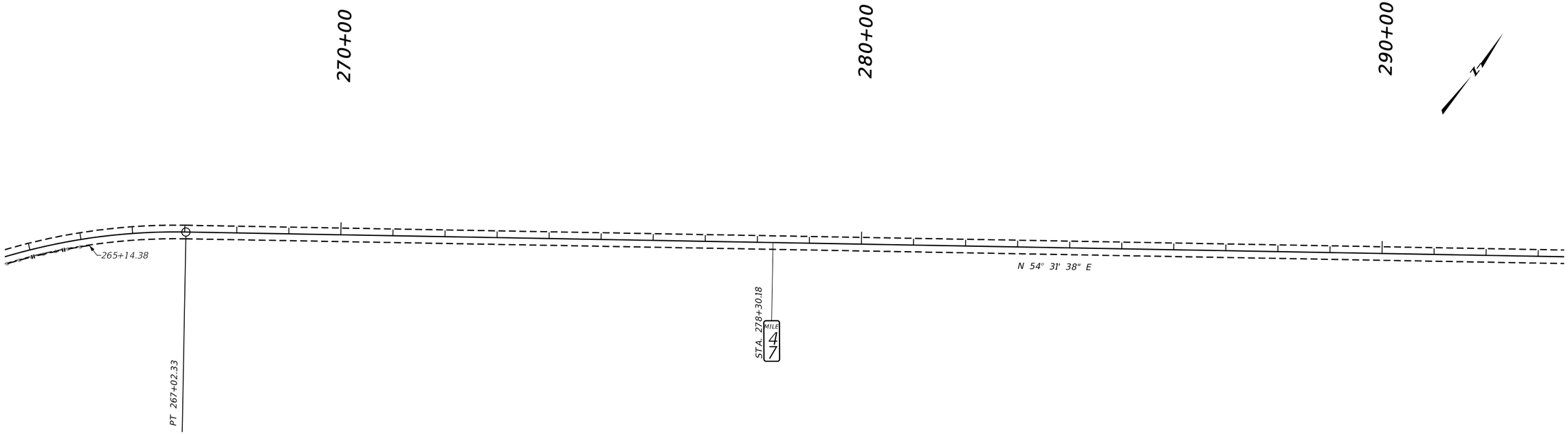




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2		12/29/2021	REVIEWED BY K. MUELLER	8/20/2019			
		11:09:15 AM CPS – U3829	CHECKED BY T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	10

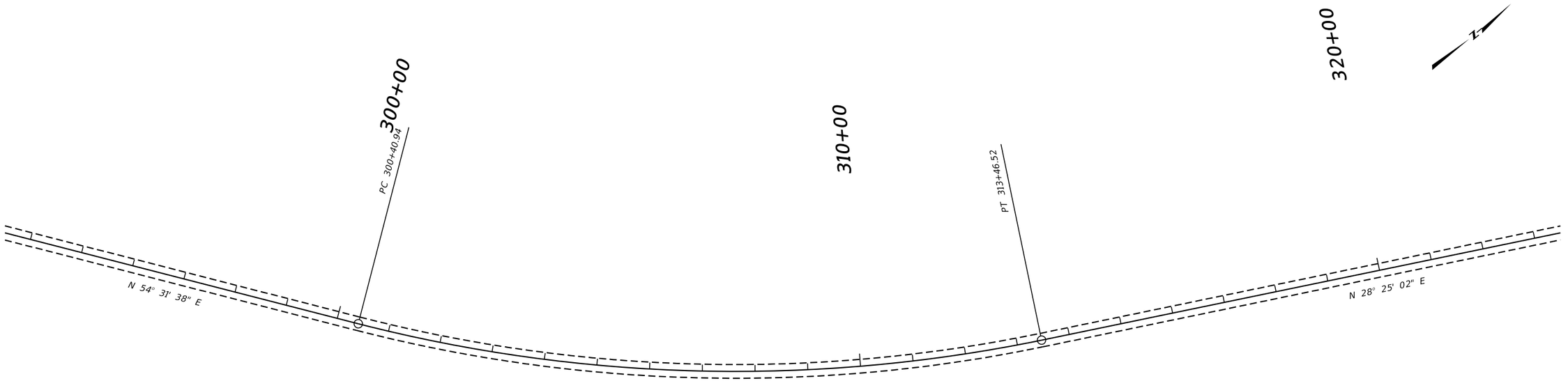
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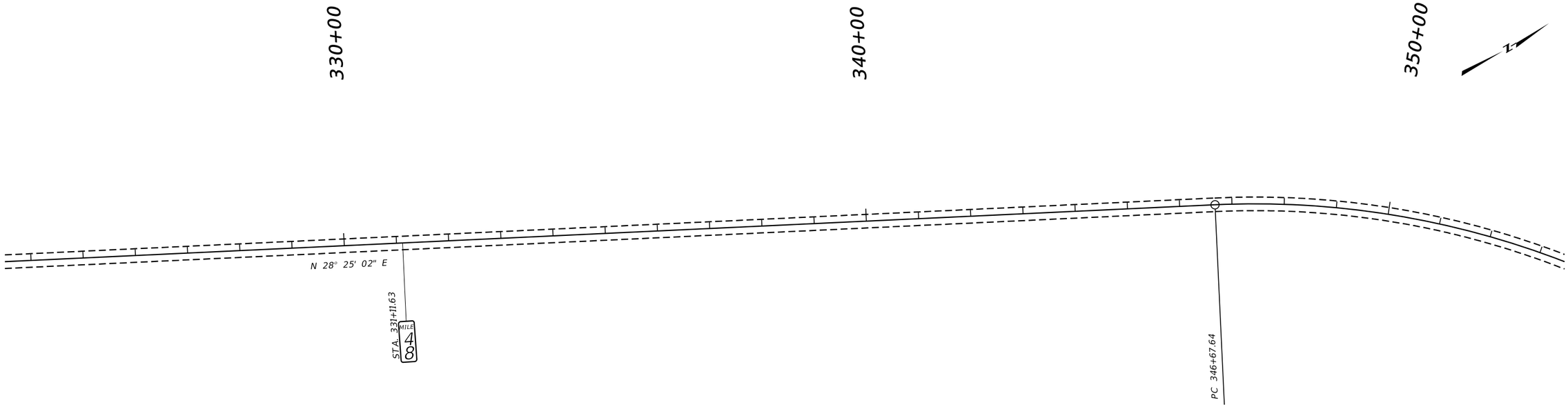




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		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019			
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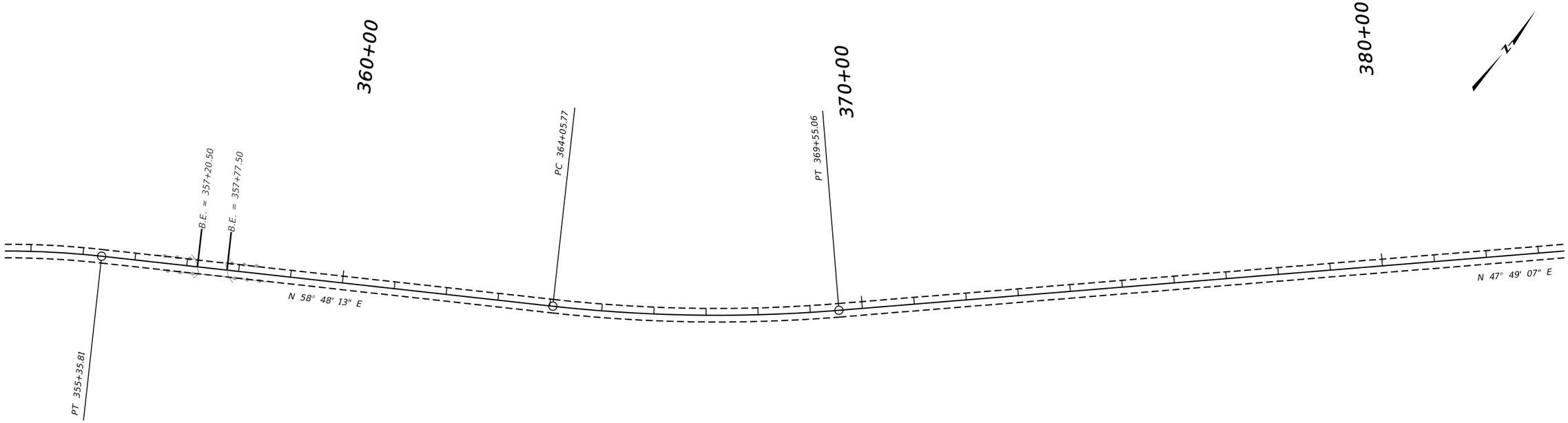
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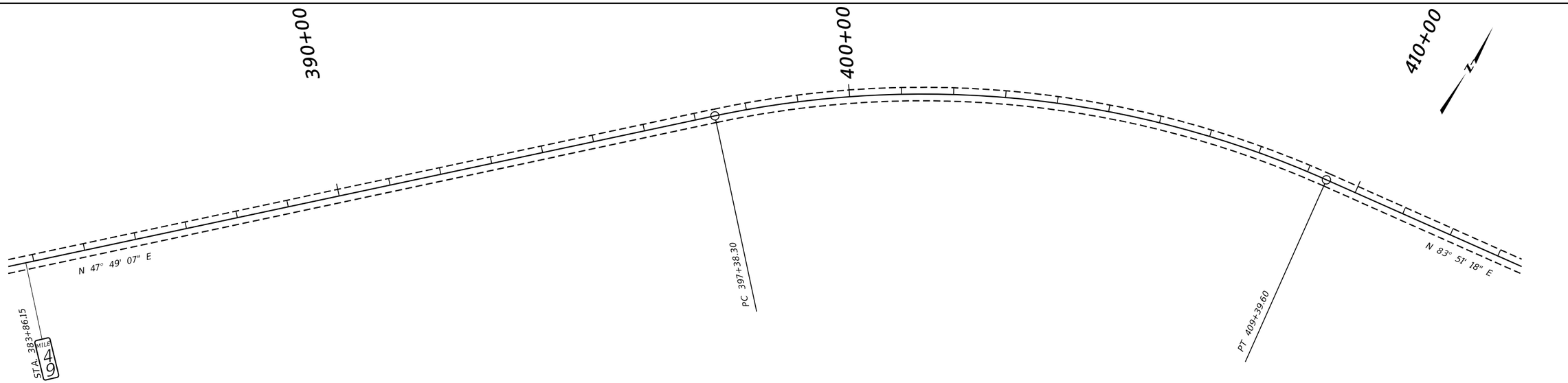




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1		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019			
		11:09:22 AM CPS - U3829	CHECKED BY	T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	12

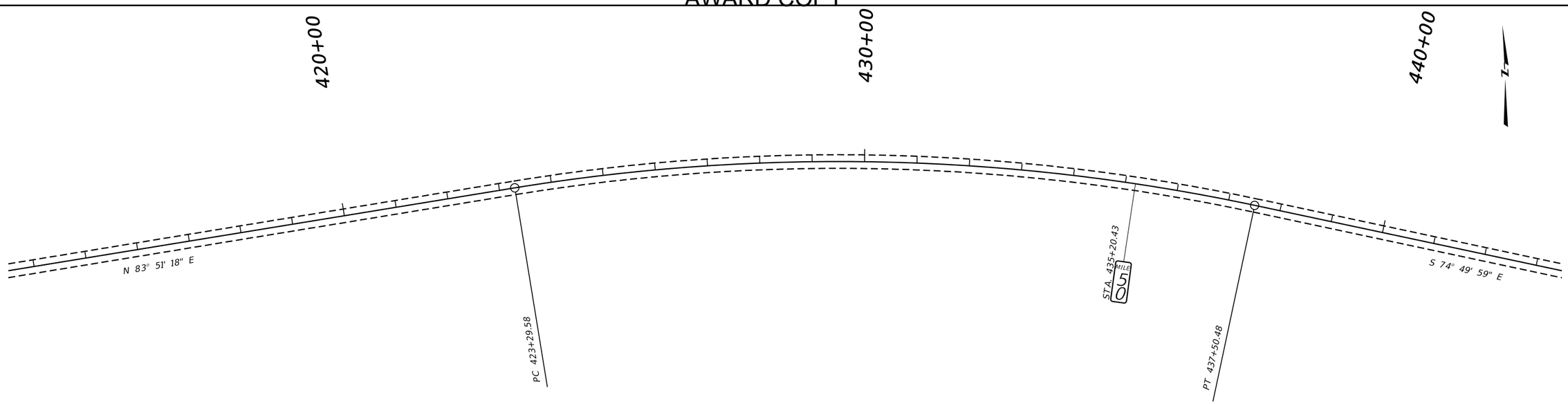
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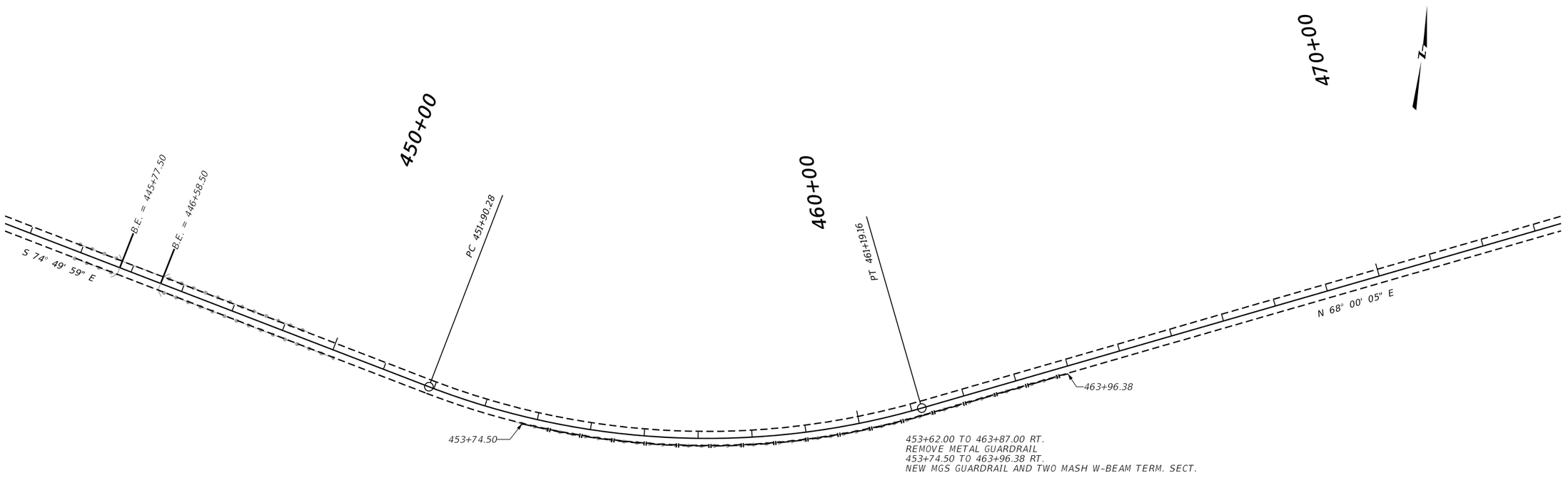




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2		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019			
		11:09:31 AM CPS - U3825	CHECKED BY	T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	13

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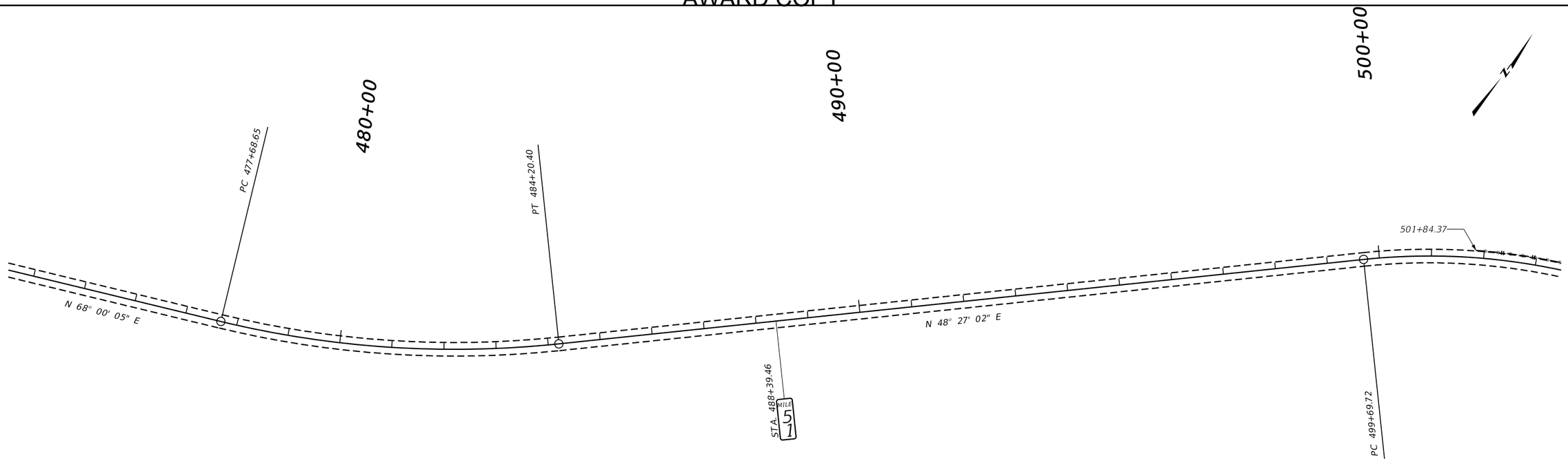




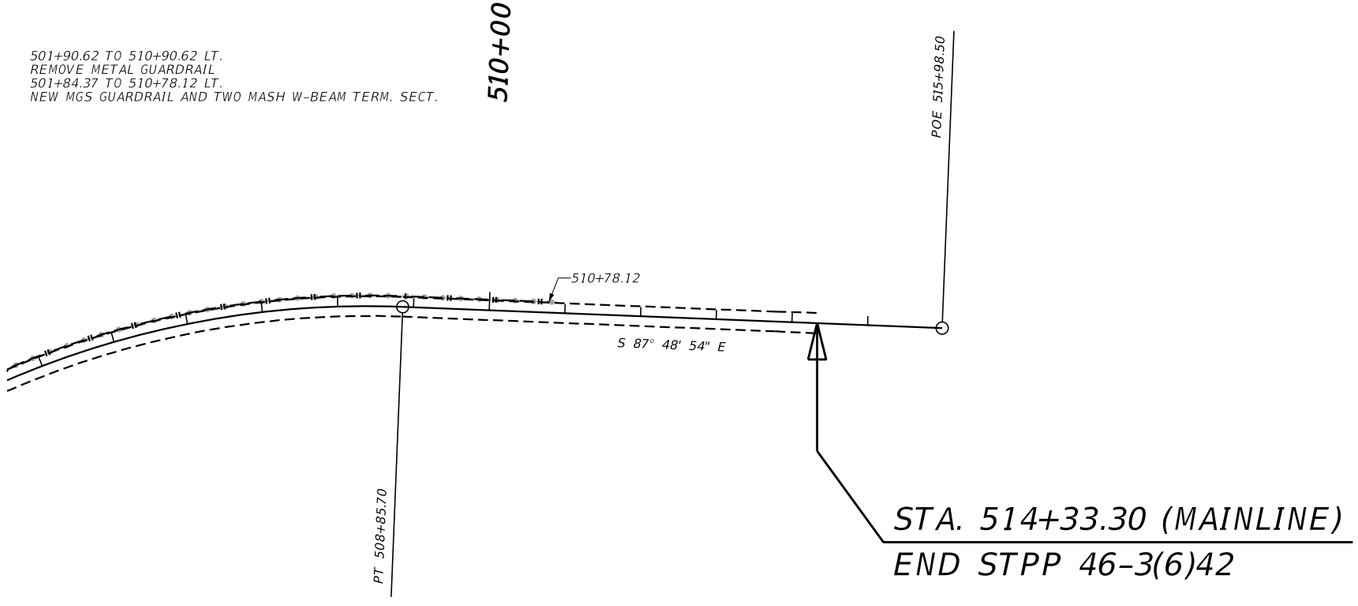
453+62.00 TO 463+87.00 RT.
REMOVE METAL GUARDRAIL
453+74.50 TO 463+96.38 RT.
NEW MGS GUARDRAIL AND TWO MASH W-BEAM TERM. SECT.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000rdplp003.dgn	DESIGNED BY J. BRAZILL	8/20/2019	ROAD PLANS	FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
		12/29/2021	REVIEWED BY K. MUELLER	8/20/2019			
1		11:09:34 AM CPS – U3829	CHECKED BY T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	14

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501+90.62 TO 510+90.62 LT.
REMOVE METAL GUARDRAIL
501+84.37 TO 510+78.12 LT.
NEW MGS GUARDRAIL AND TWO MASH W-BEAM TERM. SECT.



STA. 514+33.30 (MAINLINE)
END STPP 46-3(6)42

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000rdplp003.dgn	DESIGNED BY	J. BRAZILL	8/20/2019	ROAD PLANS	FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
1		12/29/2021	REVIEWED BY	K. MUELLER	8/20/2019			
		11:09:37 AM CPS - U3829	CHECKED BY	T. JOHNSON	9/3/2021	DEER LODGE COUNTY	UPN 9485000	15

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV	60	SQ. FOOT
SIGNS-ALUM REFL SHEET XI	206	SQ. FOOT
SIGNS-ALUM SHEET INCR IV		SQ. FOOT
SIGNS-ALUM SHEET INCR XI		SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	340	POUNDS
POLES-TREATED WOOD 4 IN	510	LINEAR FT.
POLES-TREATED WOOD 5 IN		LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL		POUNDS
POSTS-TUBULAR STEEL-SQ-PERF		POUNDS
POSTS-STEEL STRUCTURAL SIGN		POUNDS
OVERHEAD STR/METAL-CANTILEVER		EACH
OVERHEAD STR/METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL.(S)
WORDS & SYMBOLS		GAL.(S)
DELINEATOR DES A	361	EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D	10	EACH
DELINEATOR DES E		EACH
DELINEATOR DES F	45	EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	53	EACH
REMOVE SIGNS-GUIDE		EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANG SIGN POST BKWY-		EACH
FRANG SIGN POST BKWY-		EACH
SQ TUBLR SLIP BASE BKWY-3 IN		EACH

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS: REMOVE	SIGNS: RESET	GUIDE: REMOVE	GUIDE: RESET	REFLECTIVITY	REMARKS
42.472 RT		USE AS IS	HINGED SIGN																										
43.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					
43.005 RT		W1-4R	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1				FY	
43.055 LT		USE AS IS	HINGED SIGN																										
43.392 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1				FY	BBR
43.758 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1				FY	BBR
43.764 LT		W1-4R	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1				FY	NEW INSTALLATION
43.903 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1				FY	BBR
44.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					
44.597 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1				FY	BBR
45.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					
45.520 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1				FY	BBR
45.693 RT		W1-2L	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14											FY	NEW INSTALLATION
45.982 LT		W1-2R	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1				FY	
46.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					

BGR = BEHIND GUARD RAIL

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sisum001.dgn		LANDON SHOQUIST		FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021			SIGNING PLANS		
1		11:08:21 AM CPS - U3829		NATHAN STYREN	DEER LODGE COUNTY	UPN #9485000	S2

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS: REMOVE	SIGNS: RESET	GUIDE: REMOVE	GUIDE: RESET	REFLECTIVITY	REMARKS
46.071 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
46.264 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
46.567 RT		WHITE CROSSES	BY OTHERS																										
46.718 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
47.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 IV 1.9 IV									20	1						
47.103 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
47.126 RT		USE AS IS	HINGED SIGN																										
47.409 LT		R1-1	30 x 30	XI	XI	6-0		4" DIA. POLE		11-9		5-0	3-0	5.2 XI			12							1						
47.529 LT		NF-1	BY OTHERS																										NATIONAL FOREST ACCESS
47.614 LT		USE AS IS	HINGED SIGN																										
47.814 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13.0		5-0	3-0	5.5 XI			14							1					FY	BBR
48.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 IV 1.9 IV									20	1						
48.107 LT		W14-3	36X48X48	XI		10-0		4" DIA POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
48.357 RT		W5-2	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1					FY	NARROW BRIDGE
48.452 RT		FWP-1	BY OTHERS																										

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FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sisum001.dgn		LANDON SHOQUIST		FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021					
1		11:08:25 AM CPS - U3829		NATHAN STYREN	SIGNING PLANS	UPN #9485000	S3
					DEER LODGE COUNTY		

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS: REMOVE	SIGNS: RESET	GUIDE: REMOVE	GUIDE: RESET	REFLECTIVITY	REMARKS
48.463 LT		W11-4	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1					FY	
48.493 LT		OM3-L	12 X 36	XI		2-0		STL U-POST		10-0		4-0	3-0	3.0 XI									20	1					FY	BGR
48.498 RT		N6-2	1-6 X 3-6	IV	IV	5-0		4" DIA. POLE		12-8		7-0	3-0	5.3 IV			14							1						FISH TRAP CREEK
48.503 RT		OM3-R	12 X 36	XI		2-0		STL U-POST		10-0		4-0	3-0	3.0 XI									20	1					FY	BGR
48.504 LT		OM3-R	12 X 36	XI		2-0		STL U-POST		10-0		4-0	3-0	3.0 XI									20	1					FY	BGR
48.508 LT		N6-2	18 X 42	IV	IV	5-0		4" DIA. POLE		12-8		7-0	3-0	5.3 IV			14							1						FISH TRAP CREEK
48.512 RT		OM3-L	12 X 36	XI		2-0		STL U-POST		10-0		4-0	3-0	3.0 XI									20	1					FY	BGR
48.649 LT		W5-2	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1					FY	NARROW BRIDGE
48.659 LT		R1-1	30 X 30	XI	XI	6-0		4" DIA. POLE		11-9		5-0	3-0	5.2 XI			12							1						
48.688 RT		FWP-2	BY OTHERS																											
48.698 RT		R1-1	30 X 30	XI	XI	6-0		4" DIA. POLE		11-9		5-0	3-0	5.2 XI			12							1						
48.855 LT		FWP-3	BY OTHERS																											
48.884 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
48.965 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
49.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 1.9 IV									20	1						

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BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sisum002.dgn		LANDON SHOQUIST		FISHTRAP- EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021			SIGNING PLANS		
1		11:08:34 AM CPS - U3829		NATHAN STYREN	DEER LODGE COUNTY	UPN #9485000	S4

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS: REMOVE	SIGNS: RESET	GUIDE: REMOVE	GUIDE: RESET	REFLECTIVITY	REMARKS
49.316 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
49.657 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
50.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		11-6		4-0	3-0	1.9 1.9 IV								20		1						
50.061 RT		W5-2	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1					FY	NARROW BRIDGE
50.081 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
50.086 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI			14							1					FY	BBR
50.191 RT		N6-2	18 x 42	IV	IV	5-0		4" DIA. POLE		12-8		5-0	3-0	5.3 IV			14							1						LAMARCHE CREEK
50.202 LT		OM3-L	12 X 36	XI		4-0		STL U-POST		10-0		4-0	3-0	3.0 XI								20		1					FY	BGR
50.202 RT		OM3-R	12 X 36	XI		4-0		STL U-POST		10-0		4-0	3-0	3.0 XI								20		1					FY	BGR
50.211 LT		OM3-R	12 X 36	XI		4-0		STL U-POST		10-0		4-0	3-0	3.0 XI								20		1					FY	BGR
50.211 RT		OM3-L	12 X 36	XI		4-0		STL U-POST		10-0		4-0	3-0	3.0 XI								20		1					FY	BGR
50.216 LT		N6-2	18 X 42	IV	IV	5-0		4" DIA. POLE		12-8		7-0	3-0	5.3 IV			14							1						LAMARCHE CREEK
50.366 LT		W5-2	30 X 30	XI		10-0		4" DIA. POLE		13-5		5-0	3-0	6.3 XI			14							1					FY	NARROW BRIDGE
50.443 RT		NF-2	BY OTHERS																											NATIONAL FOREST ACCESS
50.552 LT		R1-1	30 X 30	XI	XI	6-0		4" DIA. POLE		11-9		5-0	3-0	5.2 XI			12							1						

BGR = BEHIND GUARD RAIL

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sisum002.dgn		LANDON SHOQUIST		FISHTRAP- EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021			SIGNING PLANS		
1		11:08:38 AM CPS - U3829		NATHAN STYREN	DEER LODGE COUNTY	UPN #9485000	S5

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET	REFLECTIVITY	REMARKS
50.703 LT		NF-3	BY OTHERS																										NATIONAL FOREST ACCESS
51.000 RT		D10-2	10 X 27	IV	IV	4-0		STL U-POST		10-0		4-0	3-0	1.9 1.9 IV								20		1					
51.025 RT		D5-5A 911 PHONE	24 X 24 USE AS IS	IV	IV	10-0		4" DIA. POLE		13-3		5-0	3-0	4 IV		14								1					
51.030 RT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI		14								1				FY	BBR
51.069 LT		W14-3	36X48X48	XI		10-0		4" DIA. POLE		13-0		5-0	3-0	5.5 XI		14								1				FY	BBR
TOTALS														60 IV 206 XI		510						340		53					

BGR = BEHIND GUARD RAIL

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sisum002.dgn		LANDON SHOQUIST		SIGNING PLANS	FISHTRAP- EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021						
1		11:08:41 AM CPS - U3829		NATHAN STYREN		DEER LODGE COUNTY	UPN #9485000	S6

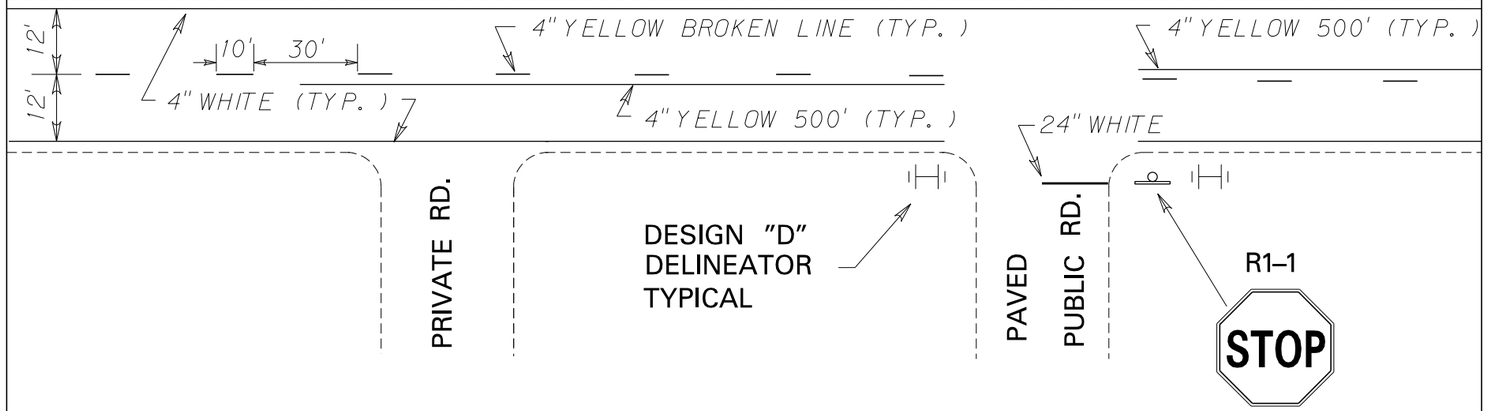
AWARD COPY

DETAILS

TYPICAL

PAVEMENT MARKINGS

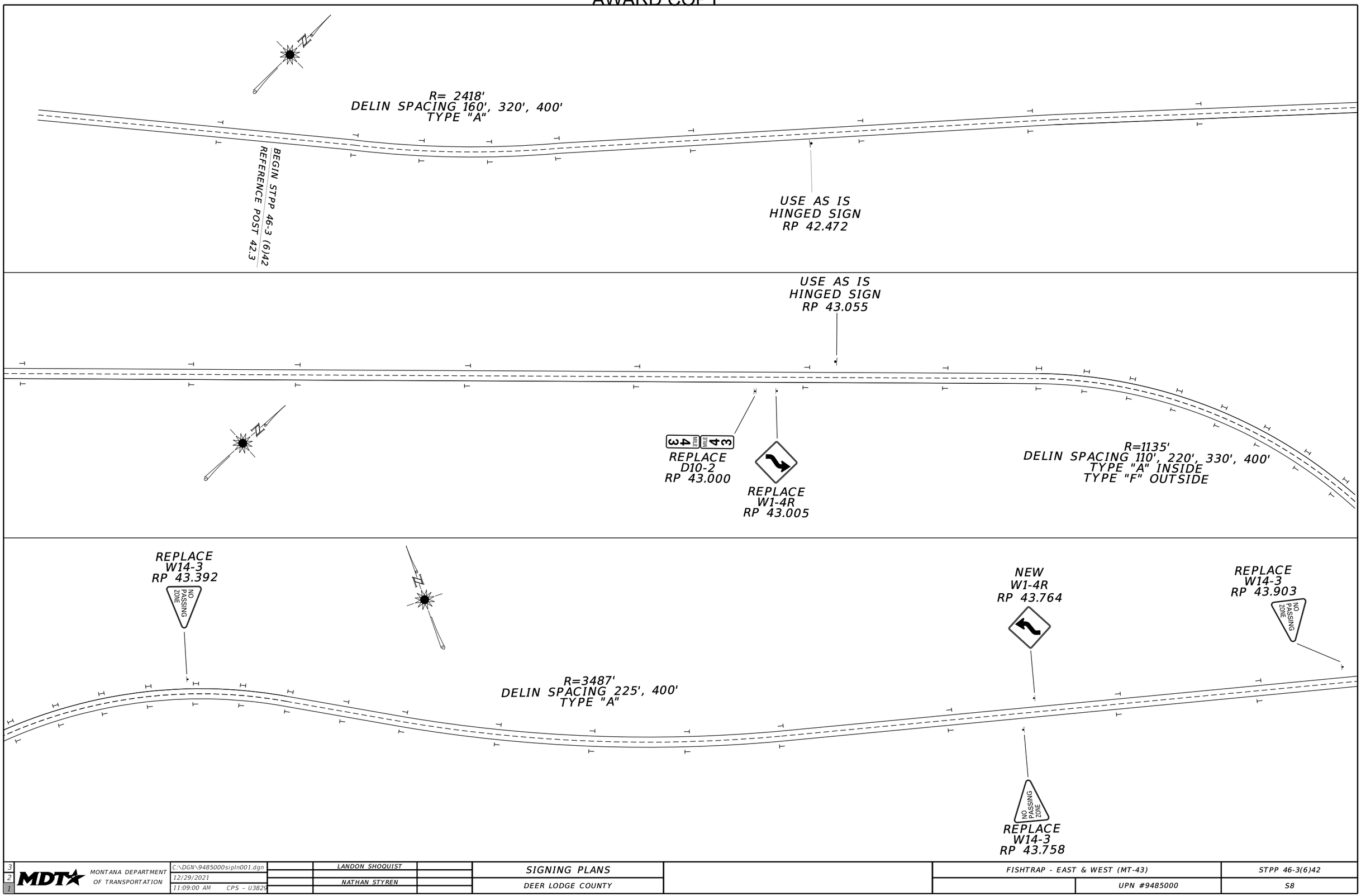
NO SCALE



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

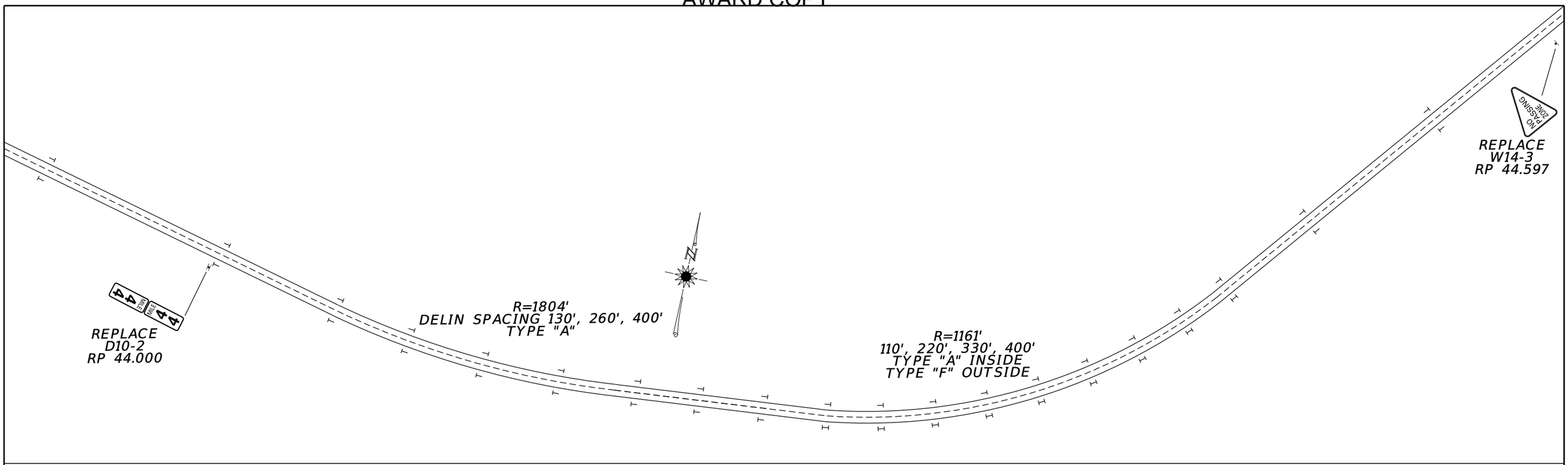
ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

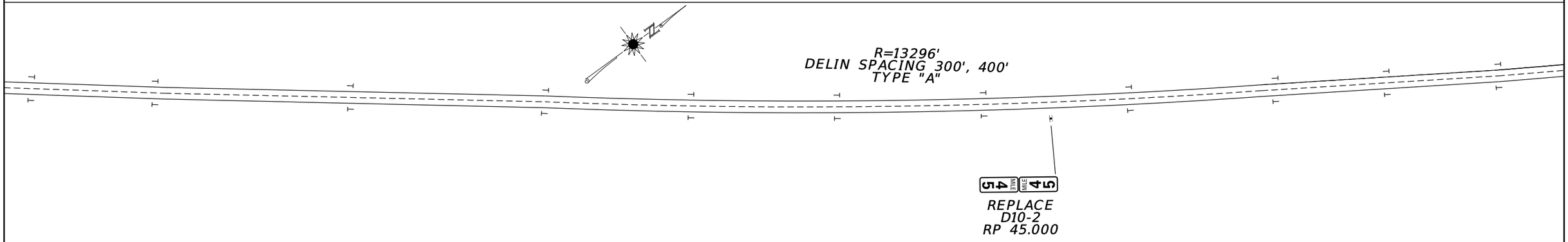
AWARD COPY

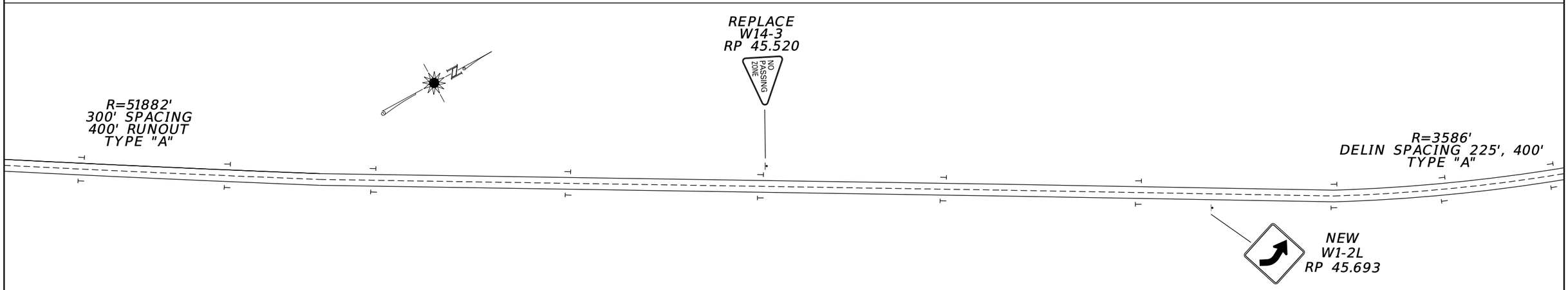


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sipln001.dgn		LANDON SHOQUIST		SIGNING PLANS	FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021						
1		11:09:00 AM CPS - U3825		NATHAN STYREN		DEER LODGE COUNTY	UPN #9485000	S8

AWARD COPY







3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sipln001.dgn		LANDON SHOQUIST		SIGNING PLANS	FISHTRAP - EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021						
1		11:09:04 AM CPS - U3829		NATHAN STYREN		DEER LODGE COUNTY	UPN #9485000	S9

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REPLACE
W1-2R
RP 45.982

REPLACE
W14-3
RP 46.264

NO PASSING ZONE

REPLACE
D10-2
RP 46.000

REPLACE
W14-3
RP 46.071

R=1862'
DELIN SPACING 130', 260', 400'
TYPE "A"

R=1002'
DELIN SPACING 110', 220', 330', 400'
TYPE "A" INSIDE
TYPE "F" OUTSIDE

R= 1230'
DELIN SPACING 110', 220', 330', 400'
TYPE "A" INSIDE
TYPE "F" OUTSIDE

WHITE CROSSES
RP 46.567

REPLACE
W14-3
RP 46.718

REPLACE
D10-2
RP 47.000

REPLACE
W14-3
RP 47.103

REPLACE
R1-1
RP 47.409

STOP

CALVERT CK RD

NF-1
BY OTHERS
RP 47.529

USE AS IS
HINGED SIGN
RP 47.614

R=3026'
DELIN SPACING 225', 400'
TYPE "A"

USE AS IS
HINGED SIGN
RP 47.126

3	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sipln001.dgn		LANDON SHOQUIST		SIGNING PLANS		FISHTRAP - EAST & WEST (MT-43)		STPP 46-3(6)42
2			12/29/2021							UPN #9485000	S10
1			11:09:07 AM CPS - U3829		NATHAN STYREN		DEER LODGE COUNTY				

AWARD COPY

REPLACE
W14-3
RP 48.107

NO PASSING ZONE

REPLACE
W14-3
RP 47.814

NO PASSING ZONE

REPLACE
D10-2
RP 48.000

4 8 MILE 8 4 MILE

R=1699'
DELIN SPACING 130', 260', 400'
TYPE "A"

REPLACE
W11-4
RP 48.463

REPLACE
OM3-L
RP 48.493

REPLACE
OM3-R
RP 48.504

FISH TRAP CREEK

REPLACE
N6-2
RP 48.508

REPLACE
R1-1
RP 48.659

STOP

REPLACE
W5-2
RP 48.649

NARROW BRIDGE

FISH TRAP RD

FWP-3
BY OTHERS
RP 48.855

R=2351'
DELIN SPACING 160', 320', 400'
TYPE "A"

NARROW BRIDGE

REPLACE
W5-2
RP 48.357

FWP-1
BY OTHERS
RP 48.452

FISH TRAP CREEK

REPLACE
N6-2
RP 48.498

REPLACE
OM3-R
RP 48.503

REPLACE
OM3-L
RP 48.512

FWP-2
BY OTHERS
RP 48.688

STOP

REPLACE
R1-1
RP 48.698

NO PASSING ZONE

REPLACE
W14-3
RP 48.884

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sipln002.dgn		LANDON SHOQUIST		SIGNING PLANS		FISHTRAP- EAST & WEST (MT-43) / STPP 46-3(6)42
2		12/29/2021						UPN #9485000 / S11
1		11:09:16 AM CPS - U3829		NATHAN STYREN		DEER LODGE COUNTY		

AWARD COPY

REPLACE
W14-3
RP 48.965

NO PASSING ZONE

REPLACE
D10-2
RP 49.000

69 MILE 49

REPLACE
W14-3
RP 49.316

NO PASSING ZONE

R=1868'
DELIN SPACING 130', 260', 400'
TYPE "A"

N

REPLACE
W14-3
RP 49.657

NO PASSING ZONE

R=3823'
DELIN SPACING 225', 400'
TYPE "A"

REPLACE
W14-3
RP 50.081

NO PASSING ZONE

50 MILE 50

REPLACE
D10-2
RP 50.000

NARROW BRIDGE

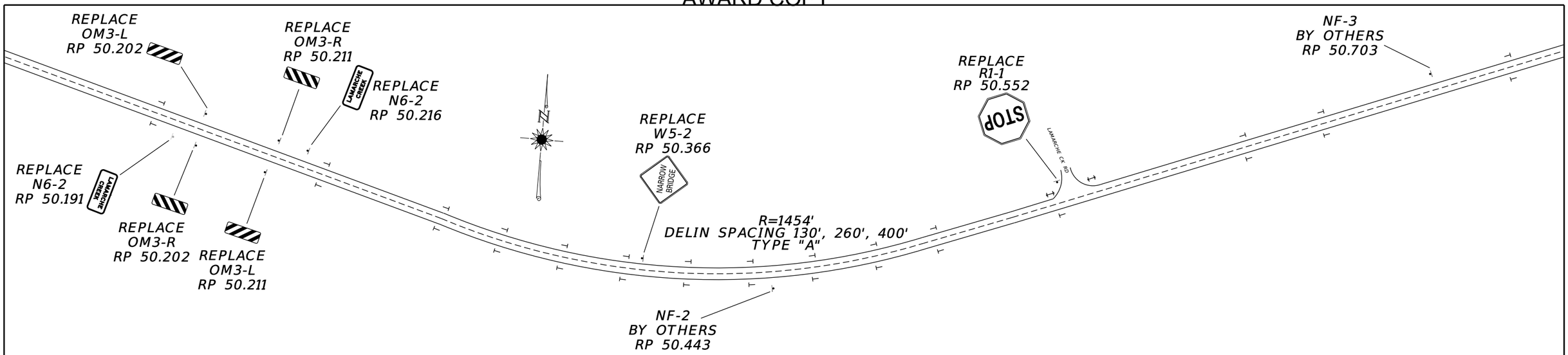
REPLACE
W5-2
RP 50.061

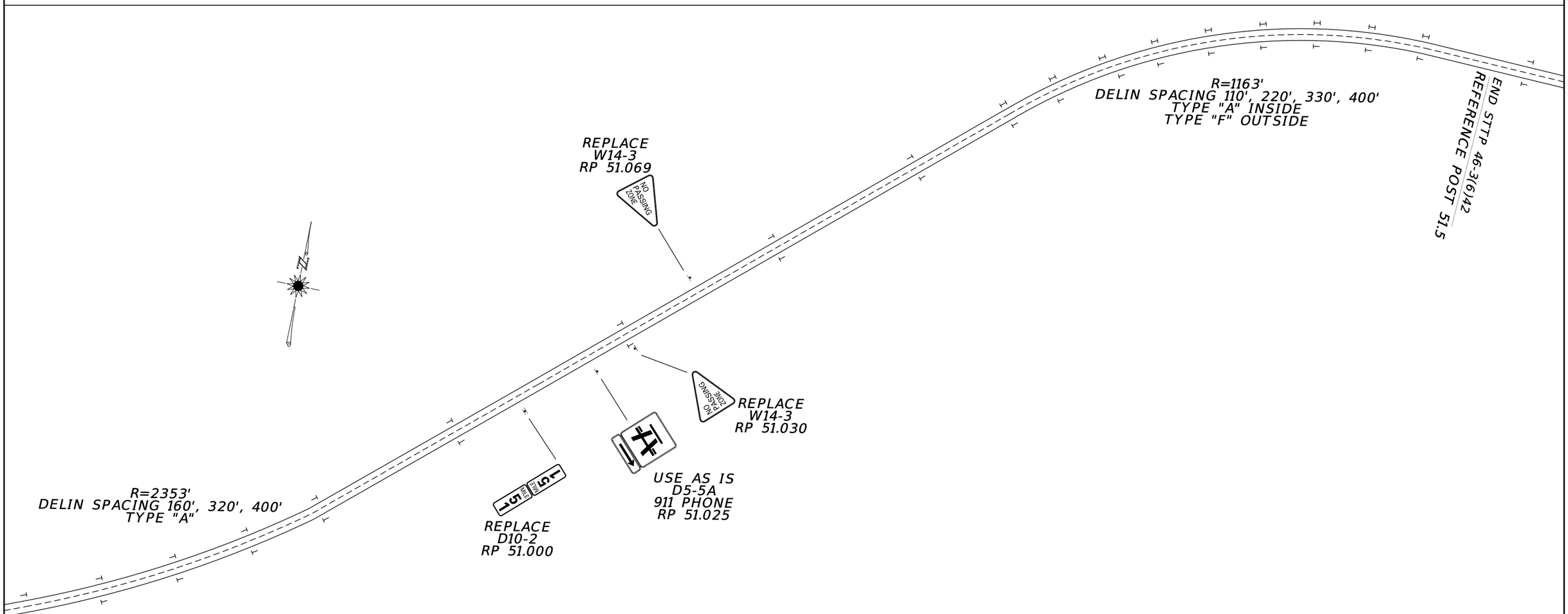
NO PASSING ZONE

REPLACE
W14-3
RP 50.086

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sipln002.dgn		LANDON SHOQUIST		SIGNING PLANS	FISHTRAP- EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021						
1		11:09:20 AM CPS - U3829		NATHAN STYREN		DEER LODGE COUNTY	UPN #9485000	S12

AWARD COPY





3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9485000sipln002.dgn		LANDON SHOQUIST		FISHTRAP- EAST & WEST (MT-43)	STPP 46-3(6)42
2		12/29/2021			SIGNING PLANS		UPN #9485000	S13
1		11:09:23 AM CPS - U3829		NATHAN STYREN	DEER LODGE COUNTY		