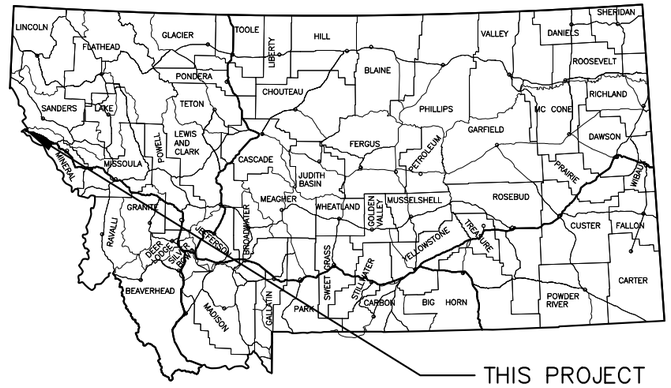
AWARD COPY

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT IM-NHFP 90-1(228)3
GRADING, GRAVEL, PCCP SURF, DRAINAGE
TAFT-WEST
MINERAL COUNTY

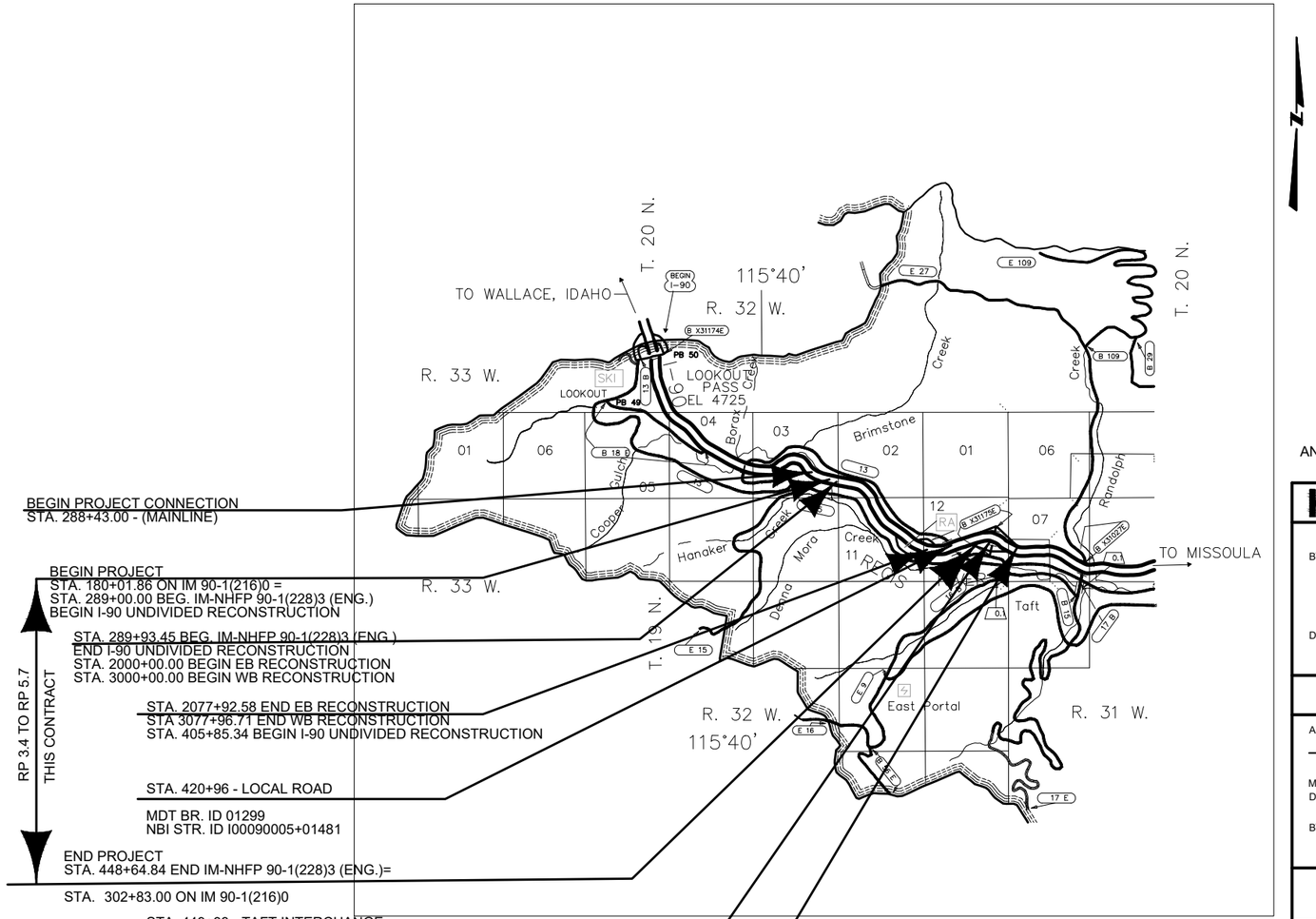


PROJECT DESIGN DATA

PRESENT	2020	A.A.D.T. = 7,500
LETTING	2023	A.A.D.T. = 7,770
DESIGN	2043	A.A.D.T. = 9,860
		D.H.V. = 1,620
		TRUCKS = 28.3%
		V. = 50 MPH
		18 KIP ESAL'S = 1,886
		GROWTH RATE = 1.2%

LENGTH 2.3 MILES

SURFACING SOURCES - CONTRACTOR FURNISHED



BEGIN PROJECT CONNECTION
STA. 288+43.00 - (MAINLINE)

BEGIN PROJECT
STA. 180+01.86 ON IM 90-1(216)0 =
STA. 289+00.00 BEG. IM-NHFP 90-1(228)3 (ENG.)
BEGIN I-90 UNDIVIDED RECONSTRUCTION

STA. 289+93.45 BEG. IM-NHFP 90-1(228)3 (ENG.)
END I-90 UNDIVIDED RECONSTRUCTION
STA. 2000+00.00 BEGIN EB RECONSTRUCTION
STA. 3000+00.00 BEGIN WB RECONSTRUCTION

STA. 2077+92.58 END EB RECONSTRUCTION
STA 3077+96.71 END WB RECONSTRUCTION
STA. 405+85.34 BEGIN I-90 UNDIVIDED RECONSTRUCTION

RP 3.4 TO RP 5.7
THIS CONTRACT

STA. 420+96 - LOCAL ROAD

MDT BR. ID 01299
NBI STR. ID I00090005+01481

END PROJECT
STA. 448+64.84 END IM-NHFP 90-1(228)3 (ENG.)=
STA. 302+83.00 ON IM 90-1(216)0

STA. 449+33 - TAFT INTERCHANGE

MDT BR. ID 01300
NBI STR. ID I00090005+06861

STA. 456+65.69 - (MAINLINE)

END PROJECT CONNECTION

AN ACCESS CONTROL FACILITY

PLANS PREPARED BY
HDR 700 SW HIGGINS AVENUE, SUITE 200, MISSOULA, MT 59803 PHONE (406) 532-2200

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	IM 90-1(227)0

BY _____

DATE _____

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED :

_____ 20 ____

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

BY _____

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED :

_____ _____
DIVISION ADMINISTRATOR DATE

SHEET NO.
ER - 1

TITLE SHEET

PROJECT NAME	TAFT - WEST		
COUNTY	MINERAL COUNTY		
PROJECT ID	IM-NHFP 90-1(228)3		
UPN	9487000		
CHECKED BY	LFISCHER	6/29/23	
REVIEWED BY	SMARSHALL	6/29/23	
DESIGNED BY	BJOHNSON	6/29/23	

9487000RDERTZ01.DWG

MONTANA
Department of Transportation

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EROSION AND SEDIMENT CONTROL BMP'S

REFER TO THE MOST CURRENT RELEASE OF MDT'S EROSION & SEDIMENT CONTROL BMP MANUAL

PEV (SS-1) SHOULD BE IDENTIFIED AND USED THROUGHOUT THE ENTIRE PROJECT IN ALL AREAS NOT DISTURBED BY CONSTRUCTION

TS (SS-3) AND ES (SS-4) SHOULD BE UTILIZED THROUGHOUT THE ENTIRE PROJECT

GENERAL BMP'S

- I/O — INLET/OUTLET PROTECTION
- WP — WATERWAY PROTECTION
- WR — WATER RESOURCE PROTECTION

TEMPORARY SOIL STABILIZATION BMP'S (SS)

- PEV — PRESERVATION OF EXISTING VEGETATION (SS-1)
- MC — MULCH COVER (SS-2)
- TS — TEMPORARY SEEDING (SS-3)
- ES — EROSION SEEDING (SS-4)
- SB — SOIL BINDERS (SS-5)
- REC — ROLLED EROSION CONTROL PRODUCTS (SS-6)
- SR — SURFACE ROUGHENING (SS-7)
- WE — WIND EROSION CONTROL (SS-8)

RUN-ON AND RUNOFF CONTROL (RC)

- ED/LD — EARTH DIKES/DRAINAGE SWALES/LINED DITCHES (RC-1)
- OVDD — OUTLET VELOCITY DISSIPATION DEVICES (RC-2)
- TSD — TEMPORARY SLOPE DRAINS (RC-3)

TEMPORARY SEDIMENT CONTROL BMP'S (SC)

- SF — SILT FENCE (SC-1)
- DB — DESILTING BASIN (SC-2)
- ST — SEDIMENT TRAP (SC-3)
- CD — CHECK DAMS (SC-4)
- DDB — DUGOUT DITCH BASIN (SC-5)
- FR — FIBER ROLLS (SC-6)
- CS — COMPOST SOCKS (SC-7)
- BB — BRUSH BARRIER (SC-8)
- SAND-B — SANDBAG BARRIER (SC-9)
- GBB — GRAVEL BAG BERM (SC-10)
- RB — ROCK FILTER BERM (SC-11)
- I/O — INLET/OUTLET PROTECTION (SC-12)

TRACKING CONTROL BMP'S (TC)

- SCEE — STABILIZED CONSTRUCTION ENTRANCE/EXIT (SC-13)
- SCR — STABILIZED CONSTRUCTION ROADWAY (SC-14)
- EOTW — ENTRANCE/OUTLET TIRE WASH (SC-15)

THE FOLLOWING BMP ALTERNATIVES ARE NOT COMPREHENSIVE AND DO NOT SUPERSEDE MDT CONTRACT REQUIREMENTS OR MANDATES AND REQUIREMENTS SPECIFIED BY OTHER AUTHORIZED LOCAL, STATE, AND FEDERAL AGENCIES.

I/O — INLET/OUTLET PROTECTION

REC, FR, ED/LD, CS, RB, GBB, SAND-B, OVDD

WR — WATER RESOURCE PROTECTION

FR, SF, REC, PEV, GBB, ES, TS, SAND-B, OVDD, I/O, TSD, RB

DT — DITCH TREATMENT

TS, CD, OVDD, REC, SAND-B, ED/LD, GBB, DDB, TSD, CS

NOTE: BMP STATIONING IS APPROXIMATE

CONSTRUCTION LIMITS:

CUT SECTION

TOE OF FILL

SHEET NO. ER - 2

EROSION & SEDIMENT CONTROL BMP'S

PROJECT NAME	TAFT - WEST		
COUNTY	MINERAL COUNTY		
PROJECT ID	IM-NHFP 90-1(228)3		
UPN	9487000		
CHECKED BY	L.FISCHER	6/29/23	
REVIEWED BY	S.MARSHALL	6/29/23	
DESIGNED BY	B.JOHNSON	6/29/23	

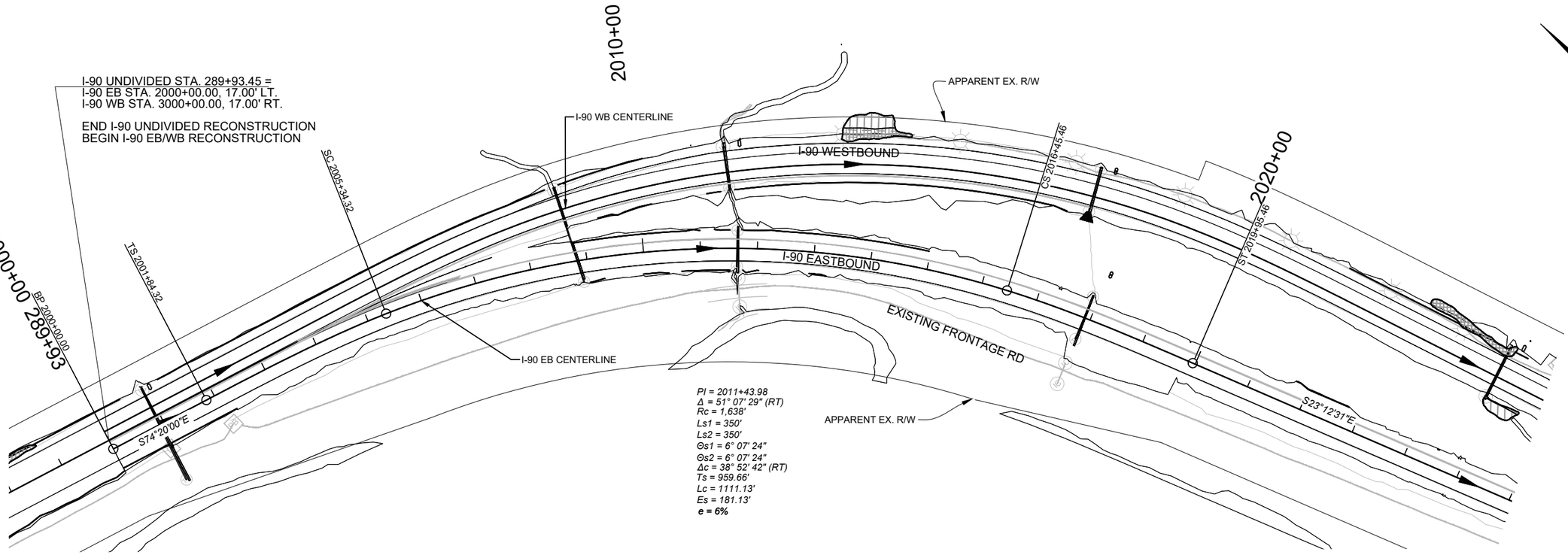
MONTANA Department of Transportation

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I-90 EASTBOUND

SHEET NO.
ER - 3

EROSION CONTROL - MAINLINE

PROJECT NAME	TAFT - WEST
COUNTY	MINERAL COUNTY
PROJECT ID	IM-NHFP 90-1(228)3
UPN	9487000

CHECKED BY	LFISCHER	6/29/23
REVIEWED BY	SMARSHALL	6/29/23
DESIGNED BY	BJOHNSON	6/29/23

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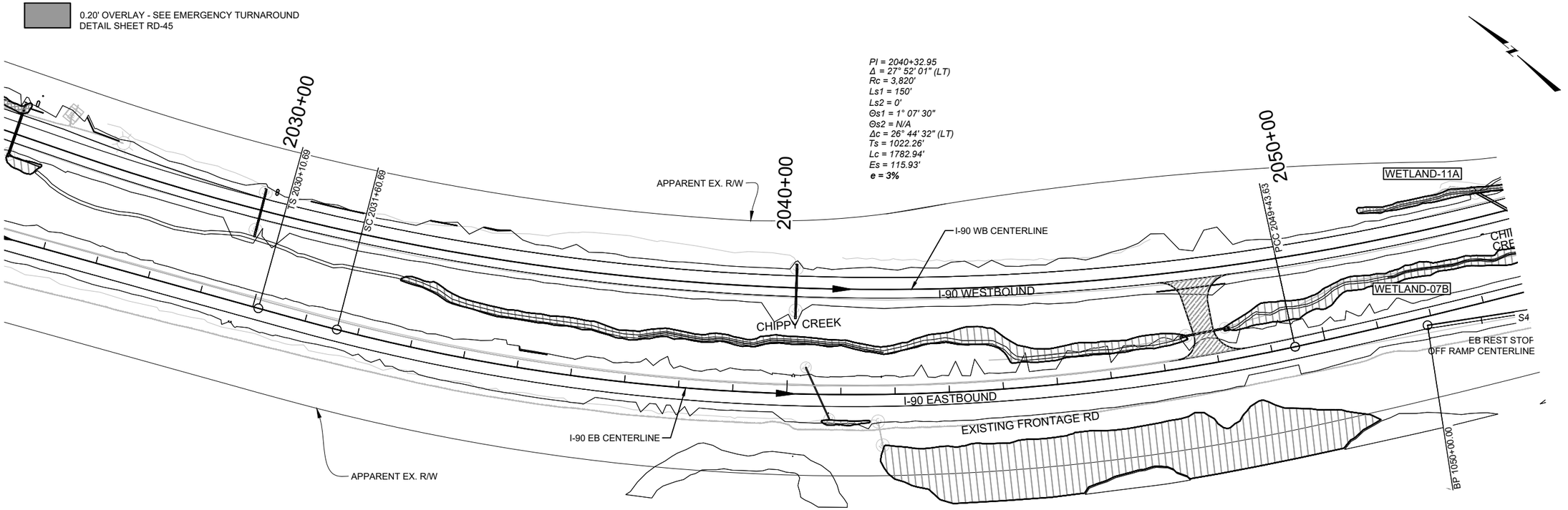
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Department of Transportation

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0.20' OVERLAY - SEE EMERGENCY TURNAROUND DETAIL SHEET RD-45



I-90 EASTBOUND

SHEET NO.
ER - 4

EROSION CONTROL - MAINLINE

PROJECT NAME	TAFT - WEST
COUNTY	MINERAL COUNTY
PROJECT ID	IM-NHFP 90-1(228)3
UPN	9487000

CHECKED BY	LFISCHER	6/29/23
REVIEWED BY	SMARSHALL	6/29/23
DESIGNED BY	BJOHNSON	6/29/23

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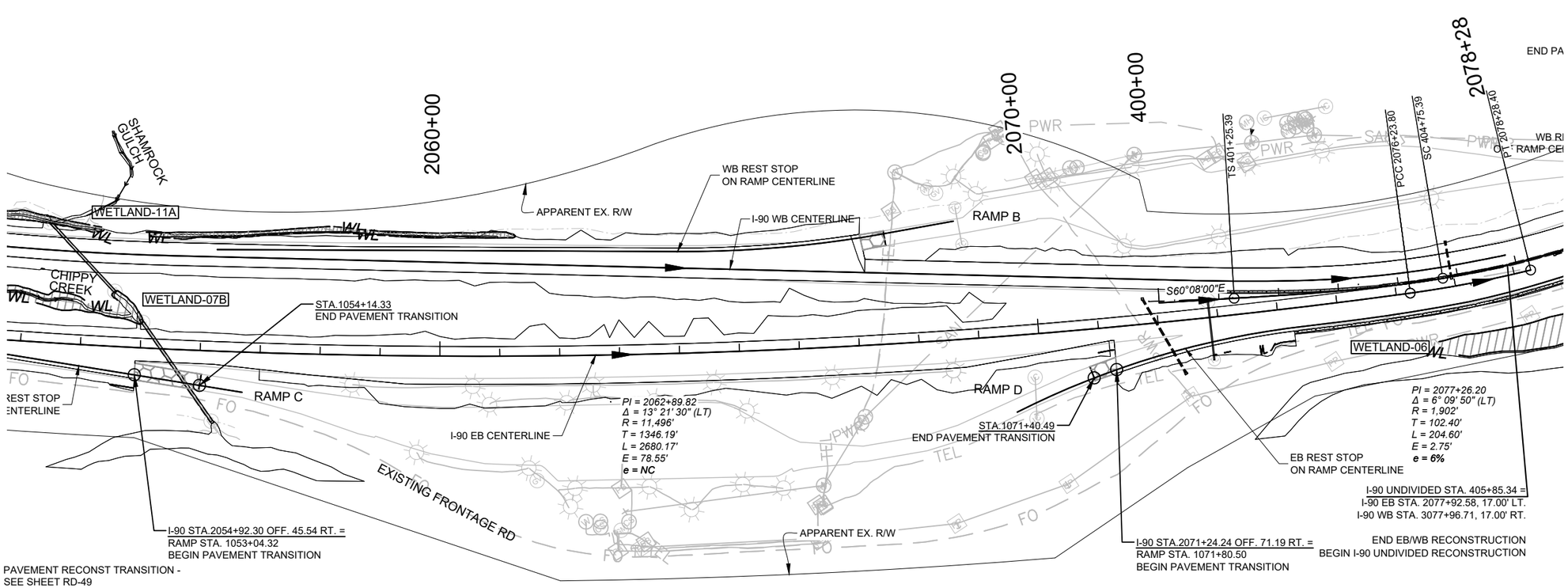
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HDR

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I-90 EASTBOUND

SHEET NO.
ER - 5

EROSION CONTROL - MAINLINE

PROJECT NAME: TAFT - WEST
COUNTY: MINERAL COUNTY
PROJECT ID: IM-NHFP 90-1(228)3
UPN: 9487000

CHECKED BY	LFISCHER	6/29/23
REVIEWED BY	SMARSHALL	6/29/23
DESIGNED BY	BJOHNSON	6/29/23

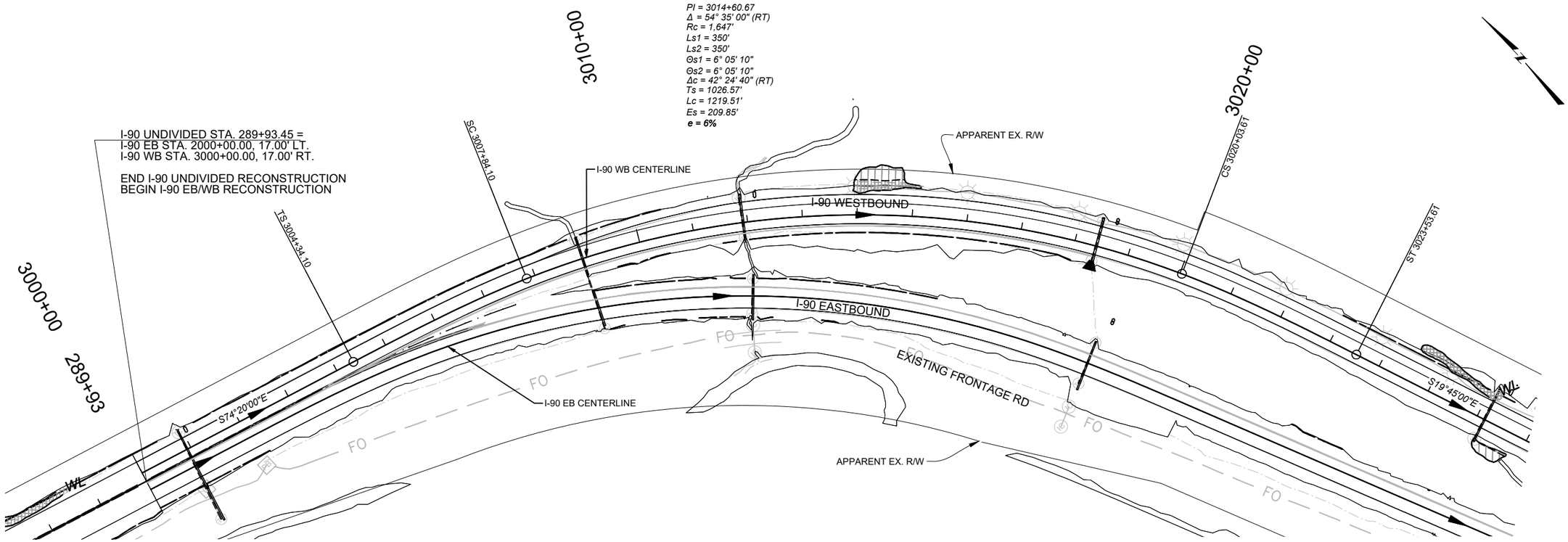
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I-90 WESTBOUND

HDR

SHEET NO.
ER - 6

EROSION CONTROL - MAINLINE

PROJECT NAME	TAFT - WEST
COUNTY	MINERAL COUNTY
PROJECT ID	IM-NHFP 90-1(228)3
UPN	9487000
DESIGNED BY	BJOHNSON 6/29/23
REVIEWED BY	SMARSHALL 6/29/23
CHECKED BY	LFISCHER 6/29/23

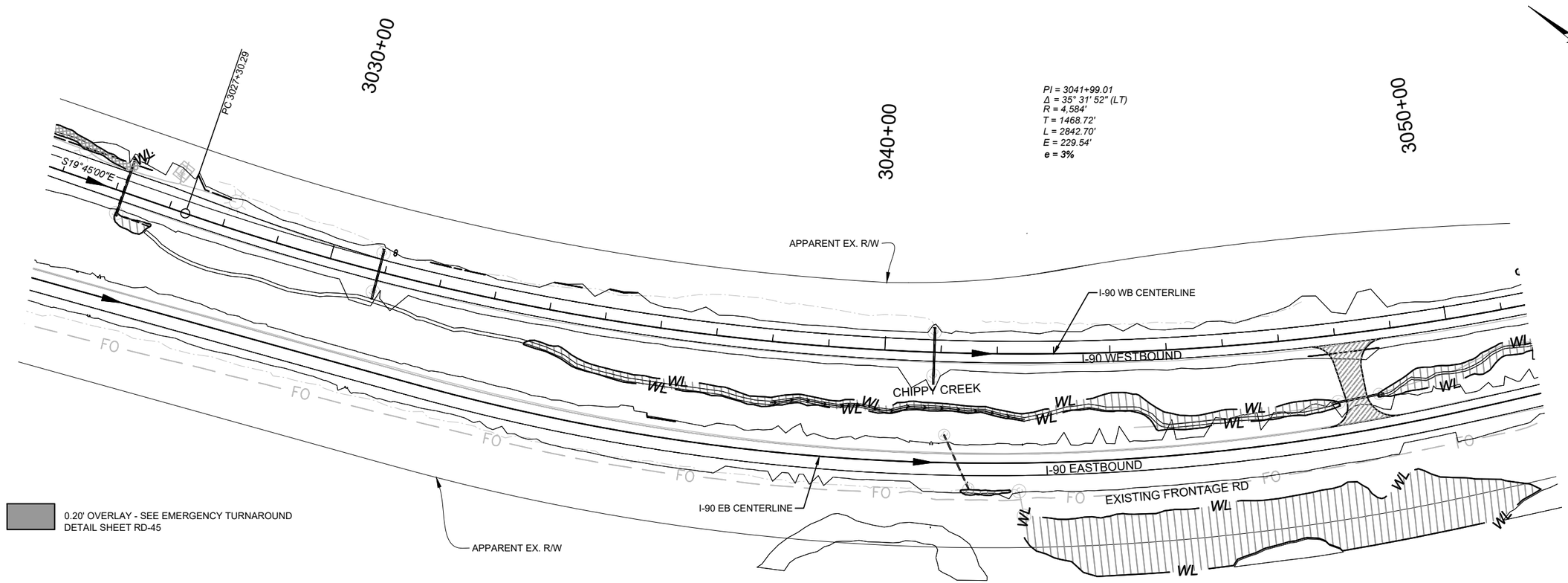
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Department of Transportation

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I-90 WESTBOUND

SHEET NO.
ER - 7

EROSION CONTROL - MAINLINE

PROJECT NAME	TAFT - WEST		
COUNTY	MINERAL COUNTY		
PROJECT ID	IM-NHFP 90-1(228)3		
UPN	9487000		
CHECKED BY	LFISCHER	6/29/23	
REVIEWED BY	SMARSHALL	6/29/23	
DESIGNED BY	BJOHNSON	6/29/23	

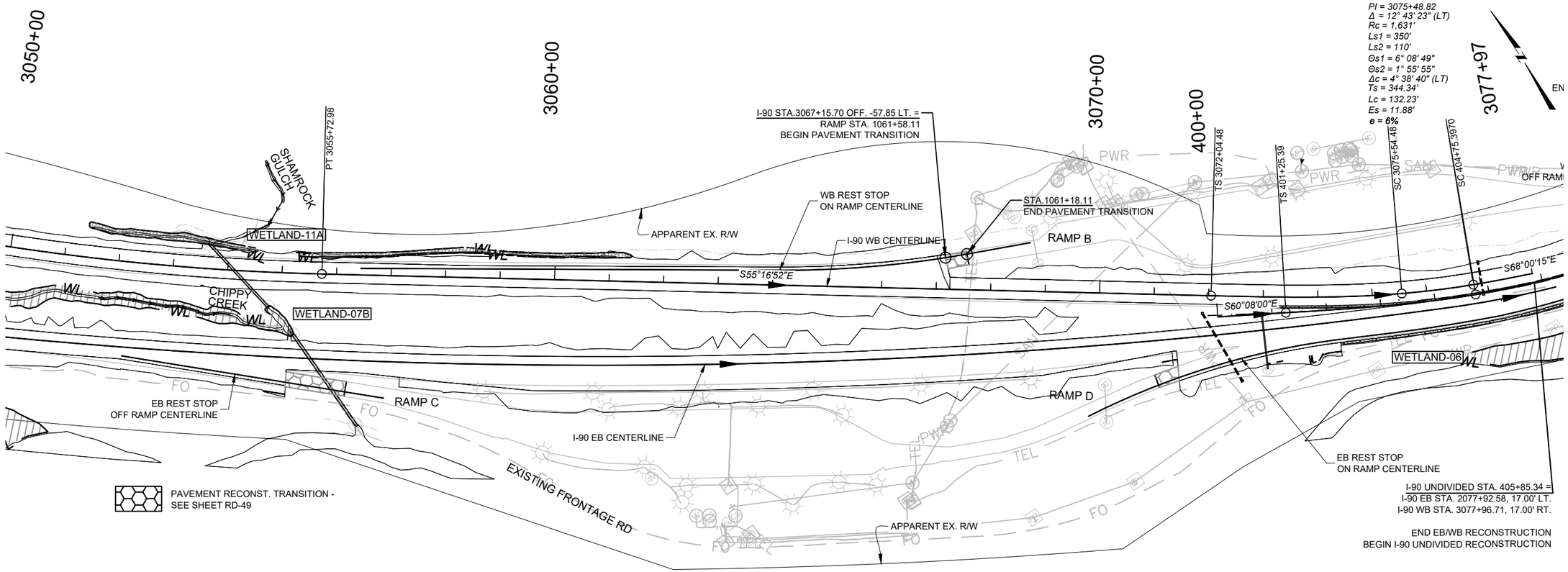
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I-90 WESTBOUND

SHEET NO.
ER - 8

EROSION CONTROL - MAINLINE

PROJECT NAME	TAFT - WEST
COUNTY	MINERAL COUNTY
PROJECT ID	IM-NHFP 90-1(228)3
UPN	9487000

CHECKED BY	LFISCHER	6/29/23	
REVIEWED BY	SMARSHALL	6/29/23	
DESIGNED BY	BJOHNSON	6/29/23	9487000RDEROZ02.DWG

MONTANA
Department of Transportation

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/EMENT TRANSITION

400+00

TS 401+25.39

S60°08'00"E

SC 404+75.39

I-90 UNDIVIDED STA. 405+85.34 =
I-90 EB STA. 2077+92.58, 17.00' LT.
I-90 WB STA. 3077+96.71, 17.00' RT.

END EB/WB RECONSTRUCTION
BEGIN I-90 UNDIVIDED RECONSTRUCTION

PI = 411+31.90
Δ = 53° 41' 17" (LT)
Rc = 1,640'
Ls1 = 350'
Ls2 = 350'
Θs1 = 6° 06' 50"
Θs2 = 6° 06' 50"
Δc = 41° 27' 37" (LT)
Ts = 1006.51'
Lc = 1186.74'
Es = 201.56'
e = 6%

410+00

STA.1088+90.68
END PAVEMENT TRANSITION

WB REST STOP
OFF RAMP CENTERLINE
RAMP A

I-90 STA.410+42.36 OFF. -76.22 LT. =
RAMP STA. 1088+20.68
BEGIN PAVEMENT TRANSITION

EB REST STOP
ON RAMP CENTERLINE

I-90

WETLAND-06

APPARENT EX. R/W

UTILITIES

407+81.2	160.3 LT	SAN. MH.
407+92.4	94.0 RT	PWR. POLE
409+79.7	103.1 RT	PWR. POLE
409+93.8	111.9 LT	PWR. PED.
410+01.6	109.9 LT	LIGHT POLE
410+29.3	127.8 LT	SAN. MH.
410+48.5	123.4 LT	SAN. BUNGALOW
411+74.9	117.6 RT	PWR. POLE
413+62.2	123.2 RT	PWR. POLE
415+49.3	120.2 RT	PWR. POLE
417+38.0	122.9 RT	PWR. POLE
421+70.3	149.2 RT	TEL. PED. RT.
423+09.4	198.8 RT	PWR. POLE

UTILITIES

405+85 TO 410+02	U.G. PWR. LT.
405+85 TO 411+47	SAN. SWR. LT.
405+85 TO 425+00	O.H. TELE. RT.
406+21 TO 425+00	U.G. F.O. RT.
406+84 TO 410+02	U.G. PWR. LT.
411+47 TO 415+37	SEPTIC TANK LT.

420+00

ST 420+12.12

CS 416+62.12

STA. 419+35.26 B.E.

STA. 422+47.56 B.E.

EXISTING FRONTAGE RD

APPARENT EX. R/W

PAVEMENT RECONST. TRANSITION - SEE SHEET RD-49

MAINLINE - I-90

SHEET NO.
ER - 9

I-90 UNDIVIDED PLAN & PROFILE

PROJECT NAME	TAFT - WEST		
COUNTY	MINERAL COUNTY		
PROJECT ID	IM-NHFP 90-1(228)3		
UPN	9487000		
CHECKED BY	LFISCHER	6/29/23	
REVIEWED BY	SMARSHALL	6/29/23	
DESIGNED BY	BJOHNSON	6/29/23	

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MONTANA
Department of Transportation

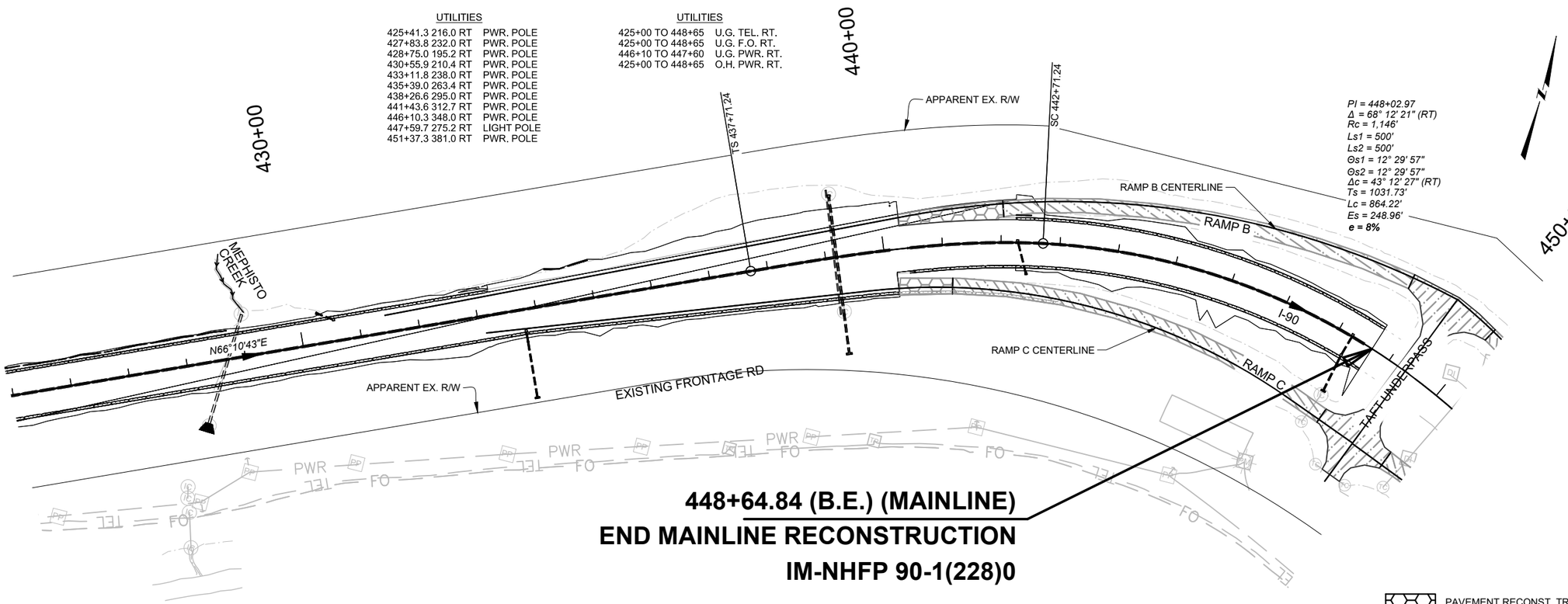
ROAD PLANS

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UTILITIES		
425+41.3	216.0 RT	PWR. POLE
427+83.8	232.0 RT	PWR. POLE
428+75.0	195.2 RT	PWR. POLE
430+55.9	210.4 RT	PWR. POLE
433+11.8	238.0 RT	PWR. POLE
435+39.0	263.4 RT	PWR. POLE
438+26.6	295.0 RT	PWR. POLE
441+43.6	312.7 RT	PWR. POLE
446+10.3	348.0 RT	PWR. POLE
447+59.7	275.2 RT	LIGHT POLE
451+37.3	381.0 RT	PWR. POLE

UTILITIES		
425+00 TO 448+65		U.G. TEL. RT.
425+00 TO 448+65		U.G. F.O. RT.
446+10 TO 447+60		U.G. PWR. RT.
425+00 TO 448+65		O.H. PWR. RT.



448+64.84 (B.E.) (MAINLINE)
END MAINLINE RECONSTRUCTION
IM-NHFP 90-1(228)0

PAVEMENT RECONST. TRANSITION - SEE SHEET RD-49

0.20' MILL/FILL

MAINLINE - I-90

SHEET NO.
ER - 10

I-90 UNDIVIDED PLAN & PROFILE

PROJECT NAME	TAFT - WEST		
COUNTY	MINERAL COUNTY		
PROJECT ID	IM-NHFP 90-1(228)3		
UPN	9487000		
CHECKED BY	LFISCHER	6/29/23	
REVIEWED BY	SMARSHALL	6/29/23	
DESIGNED BY	BJOHNSON	6/29/23	

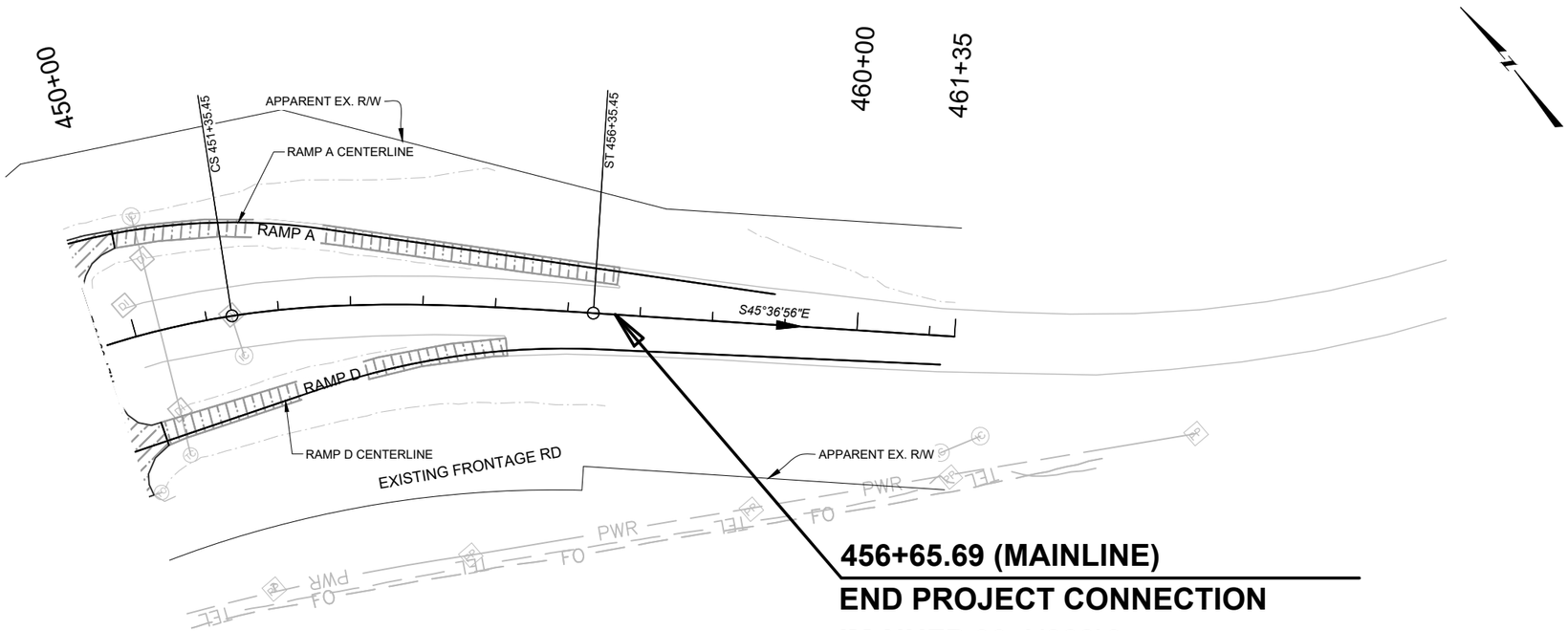
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MONTANA Department of Transportation

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0.20' MILL/FILL

MAINLINE - I-90

SHEET NO.
ER - 11

I-90 UNDIVIDED PLAN & PROFILE

PROJECT NAME	TAFT - WEST
COUNTY	MINERAL COUNTY
PROJECT ID	IM-NHFP 90-1(228)3
UPN	9487000

DESIGNED BY	BJOHNSON	6/29/23
REVIEWED BY	SMARSHALL	6/29/23
CHECKED BY	LFISCHER	6/29/23

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MONTANA
Department of Transportation

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